



UNIT LAYANAN PENGADAAN BARANG DAN JASA
UNIVERSITAS SRIWIJAYA

Jl. Palembang – Prabumulih Km. 32 (OI) Kode Pos 30662
Telp. (0711) 580069, 580225, 580275, 580645, Fax. (0711) 580644

**ADDENDUM DOKUMEN PENGADAAN Nomor. 4450/UN9.4.2/LK.01/2011
TENTANG PENGADAAN ALAT MEDIK FAKULTAS KEDOKTERAN**

Berdasarkan Berita Acara Penjelasan (Aanwijzing) Nomor. 4445/UN9.4.2/LK.01/2011 tanggal 18 Juli 2011 dan persetujuan Pejabat Pembuat Komitmen, maka Pokja Pengadaan Alat Pendidikan/Lab Peralatan Medik Fakultas Kedokteran menetapkan addendum dokumen pemilihan yang memuat perubahan-perubahan sebagaimana terlampir yang tidak terpisahkan dari dokumen pengadaan/pemilihan sebelumnya.

Demikian Addendum ini dibuat untuk dapat dipergunakan sebagaimana mestinya.

Mengetahui
Pejabat Pembuat Komitmen

Inderalaya, 18 Juli 2011
Ketua Pokja
Pengadaan Alat Pendidikan/Lab
Peralatan Medik Fakultas Kedokteran

Drs. Indra Darmawan L., MM
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Lampiran Addendum Dokumen Pengadaan
Nomor.4450/UN9.4.2/LK.01/2011
Tanggal 18 Juli 2011

Tertulis

Halaman Judul:
Pengadaan Alat Medik Fakultas Kedokteran

Nama paket pekerjaan
Pengadaan Alat Medik Fakultas Kedokteran

Nama Pokja ULP
Pengadaan Alat Medik Fakultas Kedokteran

Pemberian Penjelasan Dokumen Pengadaan akan dilaksanakan pada:
Hari : Selasa
Tanggal: 12 Juli 2011
Waktu : 10.00 s.d. 11.30 WIB
Tempat: Aula Gedung Fakultas Kedokteran
Jln. Madang, Palembang,
Sumatera Selatan

JADWAL PEMASUKAN DOKUMEN PENAWARAN
Hari : Rabu s.d. Senin
Tanggal : 13 Juli s.d. 18 Juli 2011
Pukul : 10.00 s.d. 14.00 (kecuali hari terakhir pemasukan)
Tempat : Ruang Rapat ULP Unsri, Gedung KPA Lt III Jln. Raya Palembang-Prabumulih Km. 32, Indralaya, Ogan Ilir 30662, Sumatera Selatan

BATAS AKHIR WAKTU PENYAMPAIAN PENAWARAN
Hari : Senin
Tanggal : 18 Juli 2011
Pukul : 14.00 WIB

PEMBUKAAN PENAWARAN
Hari : Senin
Tanggal : 18 Juli 2011
Pukul : 14.15 WIB
Sanggahan ditujukan kepada Pokja Pengadaan Alat Medik Fakultas Kedokteran

Jaminan sanggahan banding ditujukan kepada Pokja Pengadaan Alat Medik Fakultas Kedokteran.

SPESIFIKASI

Dibuat terpisah dibawah ini

Perubahan/Addendum

Pengadaan Alat Pendidikan/Lab Peralatan Medik Fakultas Kedokteran

Pengadaan Alat Pendidikan/Lab Peralatan Medik Fakultas Kedokteran

Pengadaan Alat Pendidikan/Lab Peralatan Medik Fakultas Kedokteran

Pemberian Penjelasan Dokumen Pengadaan akan dilaksanakan pada:
Hari : Senin
Tanggal: 18 Juli 2011
Waktu : 10.00 s.d. 11.30 WIB
Tempat: Aula Gedung Fakultas Kedokteran
Jln. Madang, Palembang,
Sumatera Selatan

JADWAL PEMASUKAN DOKUMEN PENAWARAN
Hari : Selasa s.d. Senin
Tanggal : 19 Juli s.d. 25 Juli 2011
Pukul : 10.00 s.d. 14.00 (kecuali hari terakhir pemasukan)
Tempat : Ruang Rapat ULP Unsri, Gedung KPA Lt III Jln. Raya Palembang-Prabumulih Km. 32, Indralaya, Ogan Ilir 30662, Sumatera Selatan

BATAS AKHIR WAKTU PENYAMPAIAN PENAWARAN
Hari : Senin
Tanggal : 25 Juli 2011
Pukul : 14.00 WIB

PEMBUKAAN PENAWARAN
Hari : Senin
Tanggal : 25 Juli 2011
Pukul : 14.15 WIB
Sanggahan ditujukan kepada Pokja Pengadaan Alat Pendidikan/Lab Peralatan Medik Fakultas Kedokteran

Jaminan sanggahan banding ditujukan kepada Pokja Pengadaan Alat Pendidikan/Lab Peralatan Medik Fakultas Kedokteran

SPESIFIKASI

Dibuat terpisah dibawah ini



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SPEKIFIKASI ASAL

No	Nama Alat /Spesifikasi	Vol	Satuan
1	Folicle Aspiration Pump Spesification : Dimension aprox(WxHx D):220x 110x310 (mm),Vacuum :-30 to -300mmHg weight: aprox 50kg power supply:50/60hz,115vac/230Vac(220-240Vac)	1	set
2	Stereo Zoom microscope Spesification: Stereo Trinocular Microscope Transmitted and reflected LED Set Zoom Microscope Body Zoom drive : Horizontal knob system, Click stop for each zoom magnification: ON-OFF switching possible Zoom ratio : 7:1 (0.8x to 5.6) Zoom Magnification : 0.8, 1, 1.25, 1.6, 2, 2.5, 3.2, 4, 5, 5.6 Objective Mounting : Screw mounting into thread, Lead-free Observation Tube : Trinocular tube View inclination angle : 30° light path selection : 2 steps (Binocular 100%,Video & photo 80%/Binocular 20%) All observation tubes: Lead-free Interpupillary distance adjustable range 50 to 76 mm Stand Frame installation : Mounting diameter: 76 mm Focusing adjustment : Knob rotation tension adjustment, Focusing stroke: 120 mm Stage Plate : The dedicated glass plate in 100mm dia. Included Light source : Transmitted Illumination: LED; Reflected Illumination: LED; Average LED life span: 6000 hrs Objectives : Distortion Free Plan Apochromat 1x; NA 0.10, WD 81mm	1	set
3	Camera Digital + monitor spesification : Imaging sensor Size : 1/1.8 inch color CCD Effective pixels : 2.01 megapixels Scanning mode : Progressive scan Color filter : RGB Bayer primary color filter Recording Range : 7.04 (H) x 5.28 (V) mm, 8.8 mm Maximum recorded : 1.92 million pixels Image display Resolution : WUXGA, WSXGA, WXGA, WSVGA, UXGA, SXGA, XGA, SVGA Storage media : USB memory, network PC Metering modes : 1% center; 30% center Exposure time : Auto 2 to 1/20.000 sec, Manual 8 to 1/20.000 sec Image Display speed Live image display : Rate 15 fps, 27 fps Magnification: 1x, 2x and 4x Reproductive image display : index display, magnification 1x, 2x, and 4x Input/Output : DC input, Camera I/O, I/F: USB 2.0, DVI-I (digital/analog RGB), Wired LAN: 100Base-TX/10Base-T Dimension aprox:Camera head \varnothing 77 x 42.5 (H) mm, Control unit 180(W) x 47(H) x 200(D) mm, Handset 102(W) x 24(H) x 102(D) mm Complete with : Monitor LCD Wide Screen Color 22"	1	set
4	Stereo Zoom microscope Spesification : Microscope Body Magnification : 0.67X to 4.5X	1	set

	Zoom ratio : 6.7:1 Working Distance : 110 mm Tube inclination angel : 45° Interpupillary distance adjustment range : Left/right interlocked. Adjustment range: 52 to 76 mm Zoom adjustment knob : Left/right single-shaft horizontal knob Optical components : Lead-free Auxiliary objective : Mounting by screwing into the thread at the bottom of frame Stand Frame installation : Mounting diameter: 76 mm Focusing adjustment : Focusing stroke: 120 mm Stage Plate : The dedicated glass plate in 100mm Light source : Transmitted illumination base		
5	Heating stage for stereomicroscope Spesification : standart for Stereo Microscope standard set Glass Thickness (mm): 1.0	1	set
6	Dry Bath Incubator spesification : Dimension WxHx D:180x 140x85 (mm) Heated area 120x80mm,heating element 24V,20W Temperature range: 25C - 45C, temperature accuracy:+-0.2C Power supply 24V adapter for mains 24VDC,2 Amp, Power consumption:25watt	1	set
7	IVF Workstation dual IVF spesification : Dimensions Aprox (H x L x D)2015x1846x735 mm Workspace (WxD)1825x490mm Table plate warmed surface by HEAT SYSTEMS , table top Steenless steel power consumption 850 watt/ 230V 50 Hz Heating rate: 1degree C/minute Sound level 51+/- 2 dB(A) Alarm: Visual alarm for out of range temperature Main HEPA filter:H14, effeciency of MPPs of 99.995% Temperature set: Digital read out Unit Can be configurate with LCD Monitor and Mini incubator in workspace Standard Accessories :	1	set
	Warming block for 7 follicular fluid tubes Warming block for 2 centrifuge tubes 16.5mm Warming block for one ICSI dish Warming block for one one 60 mm dish Warming block for one one 4-well dish Kit stat,reagen Glass incubator Hood	1	set
8	Ligth Source Spesification : Dimension (WxDxH):277x120x96mm,material:aluminium,main voltage:100-240VAC Power consumption:20W, Bulb 12V:max 20W,10C, Lux:500cd can be configurate with Red filter, Green Filter, Blue filter	2	set
9	Incorporation of Monitor Including LCD Screen Spesification : 19" glass panel,high resolution monitor Connect to camera and to external computer In dual systems ,a switch can be incorporated to switch between two stereomicroscopes with camera	1	set
10	Centrifuge 8 holes, Swing out Rotor Spesification : Dimension: WxDxH: 364x320x384 mm, weigth:21.5kg Maximal capacity:400ml, max Speed:4000rpm, max RCF: 2.650 xg Control: microcomputer+interverter Tachometer(adjust): digital display,100-4000Rpm,10/100rpm Power meter(adjust): Digital display: 10-2650xg,10/100xg Timer(adjust): Digital display, 1-999menit, 1/10 Hold(adjust) 1-999detik, 1/10 detik Power source: AC220V,single phase, 50Hz Power consumption: 5A/0.5 KVA	1	set
11	Microscope binokuler for Sperm	1	set

	<p>spesification : Binocular Biological Microscope Optical System : Universal Infinity System Illumination System : Built-in transmitted illumination system, 6V30W Halogen bulb, 100-240V 50/60Hz universal voltage Focusing : Stage height movement by roller guide Stroke per rotation: 36.8mm Full stroke range: 25mm Upper limit stopped by simplified pre-focusing dial Tension adjustment on coarse focus adjustment knob Nosepiece : Revolving fixed quadruple nosepiece with inward tilt Observation tube Type : Binocular with a pair of eyepiece 10x Field number : 20 anti fungus Tube inclination : 30 ° Interpupillary distance adjustment range : 48 – 75 mm Stage Size : 188W x 134D mm Movement range : 76mm X-direction x 50mm Y-direction Specimen Holder : Double slide holder Rubber grip : Equipped as standard Condenser Type : Abbe type with built-in daylight filter N.A : 1.25 with oil Immersion Aperture iris diaphragm : Built-in Dimension / weight : 233W x 411(H) x 367.5Dmm / Approx. 8Kg Objective lens : Plan Achromatic 4X, NA: 0.10, WD: 18.5 mm (anti-fungus) Plan Achromatic 10X, NA: 0.25, WD: 10.6 mm (anti-fungus) Plan Achromatic 40X, NA: 0.65, WD: 0.6 mm (anti-fungus) Plan Achromatic 100X, NA: 1.25, WD: 0.13 mm (spring,oil) Complete with :Power Cord</p>		
12	<p>Vertical Laminar Flow, size 4 feet Spesification : Microbiology vertical airflow safety cabinets CLASS II, with specification: <u>Electricity</u> Power Consumption : 230/50 VHz, 1/Ph+E Current Consumption : 2,4 A Lighting : >1100 Lux Electrical class/IP : 1/20 Heat emmision : 240 W Dimensions Useful Dimensions : 1190W x 660H x 580D (mm) Overall dimensions : 1320W x 1470H x 785D (mm) Working Aperture : 200 mm Max. front aperture : 460 mm Exhaust flow rate : 390 m3/h Noise level : < 58 dB(A) Weight (approx) : 215 kg Construction : - Epoxy powder painted - work chamber inside walls of stainless steel - Stratified safety glass, Microprocessor based monitoring system, full status report provided via 2-line digital display Features : Audio-visual alarms provided, user friendly keyboard and data keeping display, suitable to discharge filtered air through a ducting system, DOUBLE FAN Filter : 70% of the air re-circulated HEPA Filter within the cabinet, whilst 30% discharged through an exhaust HEPA Filter Filter Efficiency : 99,995% MPPS or 99,999% on 0.3 micron particles Complete with : - UV Lamp - Epoxy powder painted modular stand with castors</p>	1	set
13	<p>Digital Camera for inverted microscope + Monitor Spesification : Imaging sensor Size : 1/1.8 inch color CCD Effective pixels : 2.01 megapixels Scanning mode : Progressive scan Color filter : RGB Bayer primary color filter</p>	1	set

	<p>Recording Range : 7.04 (H) x 5.28 (V) mm, 8.8 mm Maximum recorded : 1.92 million pixels Image display Resolution : WUXGA, WSXGA, WXGA, WSVVGA, UXGA, SXGA, XGA, SVGA Storage media : USB memory, network PC Mount : C-mount Sensitivity : Equivalent to ISO 100/200/400 Metering modes : 1% center (spot); 30% center Exposure time : Auto 2 to 1/20.000 sec, Manual 8 to 1/20.000 sec Image Display speed Live image display : Rate 15 fps (res: 1600 x 1200), 27 fps (res: 800 x 600) Magnification: 1x, 2x (electric zoom) and 4x (electric zoom) Reproductive image display : index display, magnification 1x, 2x, and 4x Input/Output : DC input, Camera I/O, I/F: USB 2.0, DVI-I (digital/analog RGB), Wired LAN: 100Base-TX/10Base-T, serial port Dimension : Camera head Ø77 x 42.5 (H) mm, Control unit 180(W) x 47(H) x 200(D) mm, Handset 102(W) x 24(H) x 102(D) mm 200(D) mm, Handset 102(W) x 24(H) x 102(D) mm Complete with : Monitor LCD Wide Screen Color 22"</p>		
14	<p>CO2 Incubator Spesifikasi : Capacity 170 liter External Dimension WxDxH; 620x710x900mm, Internal Dimension:490x532x665 mm, Weight: 97kg Effective capacity:170 Liter Temperature range: 5Celcius to +50Celcius Exterior; polyester finish baked on zinc galvanized steel, interior: stainless steel containing cooper Tray;stainless steel containing cooper, standard 4 trays Access port;inner diameter 30mm,on the back side Insulation:Rigid polt urethane foamed-in place (CFC FREE) Heating systems: Direct heat & Air (DHA)jacket systems, Heater: 314Watt Humidifying system: natural evaporation with humidifying pan Temperature control: PID control,temperatur display: digital display CO2 Controller: PID control system, TC sensor(direct detection in chamber), CO2 density: digital display O2 Controller: PID control system, Zirconia sensor (direct detection in chamber) Air filter: 0.3um, effeiciency 99.97% or more Water level sensor: optical eye Alarm: High/low tempereture, CO2 density alarm,dorr alarm,UV lamp failure alarm Remote alarm contact: allowable contact capacuty DC30v, 2A CO2 inlet connection;4 to 6 mm diameter tube,CO inlet pressure; 0.03MPaG, O2 inlet pressure: 0.05MPag Accessories: 4trays,4 sets of trays support,1 humidifying pan</p>	1	set
15	<p>Heated Incubator Spesification : Dimension, external WxDxH: 580x595x820mm, internal; 450x460x450mm, Wiegth :44 kg effective capacity: 93 liter Exterior: Electrically galvanized steel plate, Acrylic resin painted, interior: stainless steel plate Outer door: Tempered glass Insulation: Glass wool Shelf; Stainless steel plate (SUS 304) 2 pcs Temperature control: PID control,temperatur display: digital display Timer: electronic timer with delay timer Circuit beaker: 10A Overheat prevention mechanism: built in thermister, thermal guard Heater: 200w</p>	1	set
16	<p>Coda inline filter from Coda filter Spesification : Size: 12.25 inchi used for IVF, FDA cleared, dan CE certified Air tigth selaed packing Sterilized by Gamma radiation</p>	2	set
17	<p>Routine inverted Microscope Spesification : Trinocular Inverted Microscope</p>	1	set

	<p>Optical system : Universal Infinity-corrected optical system Stage : Mechanical stage Right-hand low drive coaxial controls stage movement: X=120mm, Y=78mm, with three dish/sample holders Revolving nosepiece : Quadruple revolving nosepiece Filter holder : Insert up to 11mm thick with \varnothing45mm filter, detachable Slider insertion : With phase slider pocket and built-in slider position Observation tube : Trinocular tube, interpupillary distance range: 48-75mm Observation optical path: 50(binocular)/50(video port) Illumination Light source : 6V/30W halogen lamp, lamp socket , system built-in frosted and heat absorbing filters, detachable Illuminator Focus : Vertical nosepiece movement (stage is fixed), coaxial coarse and fine focus with tension adjustment mechanism, roller slide mechanism, stroke: 7mm up and 2mm down from focus position which is 1mm above the stage, stroke per rotation: 39.6mm (coarse), 0.2mm (fine) 6V/30W Halogen bulb including Stage extension plate Interference light balance daylight filter, 45mm dia. Power cord, C-mount Neutral density Filter Objectives : - U plan semi apochromat phase objective 4X/0.13 Plan achromat phase objective 10X, NA 0.25 Long working distance achromat phase objective 20X/0.4 Long working distance achromat phase objective 40X/0.55 Condenser : Detachable ultra-long working distance condenser Contrast slider : Centrable, with phase ring for 4X, phase ring for 10X/20X and hole for phase ring for 40X Centering Microscope Aperture diaphragm : Lever type, range: from minimum \varnothing3mm to maximum \varnothing44mm Eyepiece : 10x/20 Focusable</p>		
18	<p>Inverted Microscope Spesification : Inverted Relief Contrast Microscope standard set, consist of: Microscope frame Revolving nosepiece : Sextuple Focus : - 9mm stroke (from stage surface: 7mm upward & 2mm downward) Coaxial & fine focusing knobs (min fine focus graduation: 1μm, full rotation of fine focusing knobs: 100 μm) Upper limit stopper Torque adjustment for coarse focusing Illuminator : 100W transmitted light illuminator pillar tilt mechanism (30$^{\circ}$ inclination angle, with vibration reducing mechanism), Condenser holder (with 50mm stroke, swing-in/out mechanism) External Power supply : Two versions available (100V and 200V), 2.2kg weight Observation tube : Binocular tube, Built-in focusing telescope, Interpupillary distance adjustable 50-76mm, Diopter adjustment function Stage : 2-way mechanical stage with flexible right-hand vertical low drive controls, Glass insert plate with 25mm dia. Condenser : Long working distance condenser for DIC/RC observation (N.A.0.5/W.D.45mm) with 4 position turret (50mm dia.) Objective : - U plan semi apochromat phase objective 4X/0.13 U plan semi apochromat phase objective 4X/0.13 Plan semi apochromat relief contrast objective 10X,NA 0.30, WD 9.0 Long working distance plan semi apochromat phase objective Complete with : Magnification changer (1x & 1.6x), 2-step light selector Neutral Density Filter 45mm & 32mm dia. (25% & 6%) Phase contrast ring slit, including indication plate Lamp house for 100W halogen with long connection cord including Micromanipulator Micromanipulator ICSI/Injection standard set, consist of: Oil hydraulic joystic micromanipulator set consists of 2 each of drop handle oil hydraulic micromanipulators, motorized coarse positioners, universal joint units, and an adapter Microinjector with metal syringe, including injection holder (2 pcs)</p>	1	set
19	<p>Heating stage Spesification :</p>	1	set

	Used For Inverted Microscope Glass Thickness (mm): 50x50(mm) plate center area : 0.5 other surrounding area : 1.0 including Control Unit		
20	Triple Gas Incubator + Accessories Spesification : External Dimension WxDxH; 480x548x575mm, Internal Dimension:350x378x375 mm, Weigth: 50kg capacity:49 Liter Temperature range: 5Celcius to +50Celcius Exterior;painted steel, interior:tempered Stell Tray;stainless steel containeng cooper, standard 3 trays, maximum 6 trays Access port;inner diameter 30mm,on the back side Insulation:Rigid polturementane foamed-in place (CFC FREE) Heating systems: Direct heat & Air (DHA)jacket systems, Heater: 180Watt Humidifying system: natural evaporation with humidifying pan Temperature control: PID control,temperatur display: digital display CO2 Controller: PID control system, TC sensor(direct detection in chamber), CO2 density: digital display O2 Controller: PID control system, Zirconia sensor (direct detection in chamber) Air filter: 0.3um, effeiciency 99.97% or more Water level sensor: optical eye Alarm: High/low temperature, CO2 density alarm,O2 density alarm Remote alarm contact: allowable contact capacity DC30V, 2A CO2 inlet connection;4 to 6 mm diameter tube,CO inlet pressure; 0.03MPaG, O2 inlet pressure: 0.05MPag Accessories: power supply cord, 3 trays, 1 humidifying pan	2	set
21	Anti Vibration Table Spesification : Dimension;1200x800mm Material:Stainless Steel Support stiffness approximately:2000Nm Mass to be dampned: adjustable	1	set
22	Liquid Nitrogen Tank Spesification : capacity : 10 liter Static Holding Time days (1) : 100 Working Time days (2) : 62 Evaporation Rate (1) liters/days : 0.10 Liquid Nitrogen Capacity - liters : 10 Weight Empty - kg : 7.5 Weight Full (3) - kg : 15.6 Neck Diameter - mm : 51 Overall Height - mm : 597 Overall Diameter - mm : 290 Number of Canisters : 6 Canister Dimensions (4) - mm : 38 x 279 Number of 1.2 ml & 2.0 ml vials (5/cane) : 150 Number of 1.2 ml & 2.0 ml vials (6/cane) : 180 Number of 1/2 cc straws (10/cane) : 540 Number of 1/2 cc straws - Bulk (2 levels) : 1500	2	set
23	Liquid Nitrogen tank Spesification : capacity : 35 liter Static Holding Time days (1) : 340 Working Time days (2) : 212 Evaporation Rate (1) liters/days : 0.10 Liquid Nitrogen Capacity - liters : 34 Weight Empty - kg : 15.8 Weight Full (3) - kg : 43.3 Neck Diameter - mm : 51 Overall Height - mm : 668 Overall Diameter - mm : 290 Number of Canisters : 6 Canister Dimensions (4) - mm : 38 x 279 Number of 1.2 ml & 2.0 ml vials (5/cane) : 150 Number of 1.2 ml & 2.0 ml vials (6/cane) : 180 Number of 1/2 cc straws (10/cane) : 540	1	set

	Number of 1/2 cc straws - Bulk (2 levels) : 1500 Roller Base : R033-8C00 Low-Level Alarm : R033-8C15		
24	Liquid Nitrogen Container + Tipping Stand Spesification : Static Holding Time days (1) : 109 Evaporation Rate (1) liters/days : 0.23 Liquid Nitrogen Capacity - liters : 25 Weight Empty - kg 10.5 Weight Full - kg : 30.8 Neck Diameter - mn : 64 Overall Height - mm : 655 Overall Diameter - mm : 396	1	set
25	Pompa Air Spesifikasi : liquid nitrogen,standart	1	set
26	Milli Q Water systems Spesification : direct water purification Resistivity 18.2 MΩ·cm @ 25 °C TOC (Direct-Q 3 system without 185/254 nm UV lamp) < 10 ppb TOC (Direct-Q 3 UV system with 185/254 nm UV lamp) < 5 ppb Particulates (size > 0.22 µm)** < 1 Particulate/ml Bacteria < 0.1 cfu/ml Endotoxin (pyrogens) < 0.001 EU/ml RNase < 0.01 ng/ml DNase < 4 pg / µl	1	set
27	Coda Aero Spesification : Dimension WxDxH: 16"x 16"x 24", weigth:14,9kg Sterilized by gamma irradiated GMP compliance and FDA 510 (k) cleared, maximum air flow of 530 cubic feet/minute effective coverage of up to 400 square feet Air exchanges/ hourin 400 square.ft:9.74	2	set
28	Refrigerator Spesification : Exterior (W x D x H) : 800 x 450 z 1090 mm Interior (W x D x H) : 720 x 300 x 725 mm Effective capacity : 158 litres Weight : 59 kg Exterior finish : baked-on arcylic finish galvanised steel Interior finish : stainless steel Outer doors/lids : 2 sliding doors, double layes glass window with heat reflecting film Shelves : 2 wire shelves, polyester-coated max. load/shelf or drawer : 20 kg Castors : 2 Access ports : 1, back hand side Ø 30 mm Insulation : rigid polyurethane foam Cooling method : fan forced air circulation Defrost method : Forced typ (cycle defrost), fullu automatic Refrigerant : R-407D Temp. control range : 2°C ~ 14°C Temp. Sensor : Thermistor Remote alarm : High/Low stage temperature, door open	1	set
29	USG 4 dimensi Spesification : OPERATING CONDITIONS Voltage : 220 – 240 VAC Frequency : 47 /63 Hz Power : 1030 VA Console Design Style : Digital Color Ultrasound System Probe input : 3 probe port Keyboard : Yes Display User Interface Gray scale level : 256 Format - B/M scan : Yes - Doppler (D-mode) : Yes	1	set

	<p>- Color Doppler : Yes Keyboard : Alphanumeric Keyboard Annotation : Yes Measurement : Yes Observation monitor : 15-inch LCD color monitor Interface : DVI-D single link Pan/ Zoom : Yes Others : Display reversal : Left – Right Top- Bottom, 90°-step rotation Operating Software B- Mode : Yes Color Doppler Imaging : Yes Power Doppler Imaging : Yes QuickScan : Yes Memory HDD : 80 GB External Storage : CD/DVD, USB Measurement : Yes Image Quality : Aplipure Imaging Processing Digital Beam Former : Autofocusing with Digital Frequency : Multi Frequency with THI Time Smooth : Yes Spatial Smooth : Yes Image Reverse : Yes, up/down, left/right Cine Imaging : Yes, frame by frame loop reply Image format : JPEG Convex Probe Convex probe : wide band convex array probe Frequency B-mode Frequency : 3.0 / 4.2 / 6.0 MHz THI Frequency : 4.6 / 5 MHz FOV : : 70° Biopsy Angle : : Multi angle Steered Angle : +/- 20 degree 4D Probe 4D Probe : :wide band convex array Frequency : :3 – 6 MHz B-mode Frequency : 3.0/4.2/6.0 MHz Multi Frequency THI Frequency : 4.6/5.0 MHz Acquisition mode : 4D Live, Single Sweep 3D display modes : Real-time, Freeze Input/Output Transducer connectors : Max. 3 for standard electronic 1 for pencil transducer Composite output signals : 1 S-VIDEO output/input : 2 RGB input/output : 1 DVI output : 1 Printer control signal output : 2 Audio input/output : R + L RS-232C : 1 port Ethernet USB Recording CD/DVD drive HDD image filing (80 GB) Color video printer B/W video printer DVD recorder B/W Printer Recommended B/W printer models UP-897MD Color Printer Recommended color printer models UP- 25MD</p>		
30	<p>CCTV Spesification : 4 Camera with DVR Standalone Feature 4 dome camera , 1 standalone DVR 500 GB, 4 adaptor, dan BNC Connector.</p>	2	set

Spesifikasi Camera (4)
Min Illumination : 0.04 Lux
Power Input : 12 VDC 0.2 A
Lens : Fixed Iris 3 mm
Resolution : 580 TVL
CCD : 1/3" Sony
Size : 99 (Ø) x 67 (L) mm
Spesifikasi DVR (1)
Audio Input : 4 Channel
Max Display Speed : 100 fps
Alarm Input : 4
Supported Protocol : TCP/IP, PPP, DHCP, DDNS
Compression Method : H264
Video Output : 1 Channel
Audio Output : 1 Channel
Max Recording Speed : 100 fps
Alarm Output : 1
Video Input : 4 Channel
Size : 343(L) x 223(W) x 59(D) mm
Spesifikasi Monitor (1)
LCD Monitor Minimal 40 inch
Video
Screen Size : 40 (101.6cm)
Resolution : 1920 x 1080
Feature : Game mode - Yes
Input & Output (Back)
HDMI : 4
Scart : 1
Full specs
Features and specifications are subject to change without prior notification.
Video
Screen Size :40 (101.6cm)
Resolution : 1920 x 1080
Dynamic Contrast Ratio : Mega Contrast
Picture Engine : HyperReal Engine
Wide Colour Enhancer : Wide Colour Enhancer Plus
Audio
Speaker Type : Down Firing + Full Range
Sound Output (RMS) : 10W x 2
Feature
Sleep Timer : Yes
Auto Channel Search : Yes
Auto Power Off : Yes
Anynet+ (HDMI-CEC) : Yes
Game mode : Yes
Teletext (TTXT) : Yes
Picture-in-Picture : 1 Tuner PIP
Clock & On/Off timer : Yes
OSD language : 29 European Languages
EPG : Yes
BD Wise : No
Wireless LAN Adaptor Support : Yes
Auto Volume Leveller : Yes
System
DTV Tuner Built-in : Yes
Dimension
Set Size (WxDxH) with Stand : 949.3 x 635.2 x 255mm
Set Size (WxHxD) without Stand : 949.3 x 567.5 x 29.9mm
Package Size (WxHxD) : 1185 x 681 x 120mm
Weight
Package weight : 17.7kg
Set weight with stand : 14.18kg
Set weight without stand : 10.9kg
Accessory
ANT- Cable : No
Power Cable : Yes
Batteries : Yes
Vesa Wall Mount : Yes
Ultra Slim Wall Mount : Yes

	Remote Controller Model : TM1050 Slim Gender Cable : 1 Component (AV share), 1 Scart, 1 CI Slot Power Power Supply : AC220 - 240V 50 / 60Hz Operation power consumption : 100W Stand-by Power Consumption : Under 0.3W Eco Mark : Planet First Series : 5 Panel Ultra Clear Panel : Yes Input & Output (Back) HDMI : 4 Digital Audio (Optical) : 1 Audio Out L-R (Mini Jack) : No PC input (D-sub) : 1 PC Audio Input (Mini Jack) : 1 Component (Y/Pb/Pr) : 1 composite (AV) : 1 (Common Use for Component Y) Ethernet (LAN) : 1 USB : 2 CI Slot : 1 Scart : 1 Design Swivel (left/right) : Yes		
31	Central Prosesung Unit + chasing Spesification : Platform : Desktop PC Processor Type : Intel Core-i3 Processor Processor Onboard : Intel® Core™ i3-2100 Processor (3.10 GHz, Cache 3 MB) Chipset : Intel® H67 Express Chipset Standard Memory : 2 GB DDR-3 SDRAM 1333 MHz Max. Memory : 16 GB (4 DIMMs) Audio Type : Integrated high-definition audio Hard Drive Type : 500 GB Serial ATA Optical Drive Type : DVD±RW Networking : Gigabit LAN Network Speed : 10 / 100 / 1000 Mbps Keyboard Type : Optional O/S Provided : Pre-sales Request Available Monitor Provided : 15.6" LCD Power Supply Type : 300w Chassis Dimension (WHD) : 180 x 379 x 401.8 mm Standard Warranty : 1-year Limited Warranty by Authorized Distributor Package Contents : Contents may vary	1	set
32	Hepa Filter Spesification : SPECIFICATION : Structure galvanize steel, finish epoxy paint Plywood panels with melamine sheet laminated Drawer and door cover, Plywood laminated by HPL Melamine ex. Import Hinges, reel and plastic handle ex import Safety glass sash door : Laminated clear glass 6 mm Vertical Laminar Air Flow Specification Size : Inner 1270 x 700 x 695 mm Outer 1340 x 770 x 1250 mm 99,97% Particle removal class 100 HEPA Filter Microprocessor PID controller DESCRIPTION Back light LCDdisplay Step Air Velocity Control UV Lamp hour meter Hepa Filter hour Meter Temperature Control meter with display Filter replacement warning signal . Air Volume : 1204 m3/h . ULPA Filter Typical Efficiency : >99,999 % at price size between 0.1-0.3 μ . HEPA Filter : 99.97% Particle Removal Class 100 HEPA Filter . Electrical power : 180W/220V/50hz	3	set

	<p>. Net weight : ±152 kg . Lamp : 1260 lux Material : Outer : 1.2 mm, 18 gouge Elctogalvanized steel White Oven baked epoxy-polyester powder- coated Finish Inner : 1.2 mm, 18 gouge Electogalvanized steel Scope of Work : Provision, manufacturer, placement & installations of furniture and accessories furniture's as quoted</p>		
33	<p>Examination Table Specification : Technical Frame of epoxy-coated or chromed steel Mattress-base 2-sectional; upholstery of blue artificial leather, comfortable shaped, easily clenable Back section adjusment pneumatically or electrically 70°, stepless Height adjusment hydraulically 540-910 mm, operating pedals on either side of the table Castors Ø 125 mm with brakes, locks directionally Push bars on both ends Dimensions Max. length 1505 mm Max. width 745 mm</p>	1	set
34	<p>USG 2 dimensi Specification : Dimensions and Weight Height: 1260 mm Width: 500 mm Depth: 625 mm Weight: approx.70 kg Electrical Power Voltage: 100-120V, 220-240 V Frequency: 50/60 Hz Power: Max. 500 VA with Peripherals Console Design Console Style Integrated HDD (160GB) 2 probe ports User Interface Operator Keyboard Alphanumeric Keyboard Ergonomic Hard Key Operations Backlight keyboard Integrated Recording Keys for Remote Control of Peripheral Devices and DICOM Devices 6 TGC Pods, with Re-mapping functionality at any depth Display Screen 15 inch High-Resolution Color LCD Display pixel: 1024x768 pixels Interactive Dynamic Software Menu Rotate and folded Angle Adjustable Horizontal: -50°to +50° Vertical: -90°to +45 Brightness Adjustment Standard Features High Resolution 15 inch LCD Cine memory: Over 1,000 Frames or over 60 sec CINE Memory 160GB Hard Drive CD R/W +DVD ROM Loops storage-from 'on the fly' scanning and from memory Automatic Optimization Auto Tissue Optimization: ATO Patient Information Database Image Archive on Hard Drive M&A Calculation Package Abdominal Calcs Vascular Calcs Cardiac Calcs OB Calcs and Tables Gynecological Calcs</p>	1	set

Fetal Trending
 Multi Gestational Calcs
 Urological Calcs
 Renal Calcs
 Imaging Processing and Presentation
 TrueScan : software Intensive Ultrasound Imaging Platform
 Digital Beamformer
 256 Digital Processing Channels Technology
 Displayed Imaging Depth: 2-30 cm , probe dependent
 Transmission Focus
 1 – 8 Focus Points Selectable
 Focal Zone Position
 Continuous Dynamic Receive in B/M (system dynamic range 165db, 30-120db is adjustable)
 Focus/Aperture
 Multi-Frequency/Wideband Technology
 256 Shades of Gray (VGA)
 Adjustable Field of View (FOV)
 Image Reverse: Right/Left
 CINE Memory/Image Memory
 CINE : Cine memory: Over 1,000 Frames or over 60 sec CINE Memory.
 CINE Gauge and CINE Image Number Display
 CINE Review: Frame-by-frame, Loop
 CINE Review Speed: 8 types 1, 11%, 13%, 14%, 17%, 22%, 31%, 48%
 Selectable CINE Sequence for CINE Review
 Start and End Frame Selections for Loop Playback
 Separation Marker to Indicate Time Discontinuity
 Annotations on CINE Playback
 Scrolling Timeline Memory
 Mode Measurement
 B-Mode
 Distance
 Circumference/Area (Ellipse/Trace)
 M-Mode
 Tissue Depth (Distance)
 Time Interval
 Depth Difference with Time Interval and Slope
 Generic Measurement
 B-Mode : % stenosis, Volume, Angle
 M-Mode : % stenosis, A/B Ratio, Heart rate
 consists of :
 Main Unit
 Wide band Convex Probe 2.0 – 5.2 MHz
 Wide band Microconvex Probe 5.0 – 10.0 MHz
 Printer B/W
 UPS

35	OPERATIVE LAPAROSCOPY FOR GYNECOLOGY		
	spesifikasi :		
	Veress Needle / Trocars & Reducer		
	VERESS INSUFFLATION NEEDLE 10CM	1	pc.
	Trocar Sleeve, size 5/110 with smooth tap mm,	2	pcs.
	Trocar Pin Triangular 5/110MM	2	pcs.
	Sealing Unit For 5MM Trocars	1	pcs.
	Trocar Sleeve 10/110MM Smooth With Tap	2	pcs.
	Trocar Pin Triangular 10/110MM	2	pcs.
	Sealing For 10/12MM TROCARS	1	pcs.
	Sealing F/10/12MM TROCARS W.REDUCER	1	pcs.
	Disp.Sealing 10/12MM TROC.W.REDUCER	1	pcs.
	Reducing Sleeve 10MM TO 5MM	1	pcs.
	Telescope, Full HD Laparoscope 110MM 0Deg 330MM	1	pcs.
	Single Scope Tray for Scops up to 340MM	1	pcs.
	Anti fogging Sterril F.Endoscopy	1	pcs.
	JAW INS.GRASPING & DISS.FCPS D:5/310MM	1	pcs.
	INSULATED OUTER TUBE 5/5MM 310MM		
	MONOPOLAR HANDLE WITH RATCHET	1	pcs.
	AGGRESIVE GRASPERS 5MM 310MM	1	pcs.
	TUBAL FIXATION FCPS 5MM 310MM	1	pcs.
	GRASPING FCPS.2X4T.D:5/310MM	1	pcs.
	CLAW GRASPER 10MM 310MM	1	pcs.

BIOPSY FCPS W/TEETH 5MM 310MM	1	pcs.
Scissors	1	pcs.
METZENBAUM SCISSORS 5MM 310MM		
Scissors Insert, Hook Scissors, single action jaws, size 5 mm, length 36 cm	1	pcs.
Instruments Bipolar	1	pcs.
BIPOLAR METZ SCISSORS 5MM 310MM		
BIPOLAR MACRO FORCEPS D:5/ 310MM	1	pcs.
BIPOLAR CABLE 4M AAG/MARTIN AAG FLAT	1	pcs.
HANDLE F/MONOPOLAR ELECTRODES 5MM	1	pcs.
CERAMIC ELECTRODE TIP J-HK F/GK372R	1	pcs.
CERAMIC ELECTRODE TIP L-HK F/GK372R	1	pcs.
MONOPOLAR HF CABLE 3.5M LONG	1	pcs.
DUROGRIP NEEDLE HOLDER STR.D:5/310MM	1	pcs.
NEEDLE HOLDER LEFT CURVED 5MM 31CM	1	pcs.
KNOT PUSHER 5MM 31CM	1	pcs.
LOOP APPLIER 4.4MM IN - 5MM OUT	1	pcs.
FORCEPS W/MYOMA SCREW PO183R	1	pcs.
EXPLORATORY PROBE 5MM 400MM		
CLEANING BRUSH 5MM DIA 6/PKG	1	pcs.
CLEANING BRUSH 10MM DIA	1	pcs.
STERILIT OIL SPRAY 300ML		
STERILIT INSTRUMENT OIL 50ML	1	pcs.
FLOW40 INSUFFLATOR	1	unit
Technical Spesification :		
High-flow insufflator with central info display		
With integrated gas preheating		
Automatic overpressure gas release		
Intuitive and simple operation		
Gas connection to gas cylinder or central supply		
Pressure pre-selection in mmHg		
Pre-selectable flow rate		
Display of gas consumption, in litres		
Gas cylinder fill level display		
Optional video overlay for documentation		
of insufflator data		
Info line for error messages		
Paediatric flow rate (from 1 l to 5 l in steps of 0.5 l/min)		
Insufflation medium, Pure medical CO2 gas		
Maximum gas flow (Flow CO2), 40 l/Min		
Pressure range, 1-30 mm/hg		
Integrated gas heating system, yes		
Automatic gas venting system, yes		
User menu, 5 languages		
Central Information Display, yes		
Dimensions (w x h x d), 305x185x340		
Weight, 11 kg		
Maximum Power Consumption, 125 V		
Safety Class acc. to EN 60601-1, 1		
Protection level acc. to EN 60601-1, BF		
Classification acc. to directive, 2a		
IEC320 POWER PLUG AND CORD 1M	1	pcs.
CO2-FILTER STER 25 UNITS	1	pcs.
INSUFFLATION TUBE W/GAS PREHEATING	1	pcs.
HIGH PRESSURE TUBE 1M US/DIN	1	pcs.
CO2 Bottle	1	pcs.
IRRIG.PUMP FLUID3 PRESSURE CONTROL	1	Unit
Technical Specification :		
Maximum Irrigation Rate 1,8 l/min		
Max. Irrigation/Suction Pressure 400 mm Hg		
Selectable Power Supply 100V/115v/230V		
Connection of pneumatic footcontrol, Yes		
Dimensions (w x h x d), 143x317x170mm		
Weight 5,5 kg		
Maximum Power Consumption 36VA		
Safety Class acc. To EN 60601-1, I		
Tested acc. To norm, EN 60601-1, EN 60601-1-2		
Protection level acc.to EN60601-1, BF		
Classification acc.to directive, II a		

93 / 42 / EEC		
IEC320 Power plug and Cord 1M	1	pcs.
Suction irrigation Instrument	1	pcs.
Fixture For Infusion Stand Fluid3	1	pcs.
Lateral Fixture With Round Tube	1	pcs.
Tube Fittings Reusable F.PG050	1	pcs.
HF Combi Unit 300W Monop.80W,Bipolar	1	unit
Technical Specification :		
Easy, intuitive operation		
Monopolar and bipolar cutting and coagulation		
Cutting quality remains constant with different tissue types		
Skin-to-plate monitoring system when using split monopolar patient electrodes		
Safe and gentle coagulation with no tissue adhesion		
No current leakage outside the bipolar application field		
Power setting can be saved in 3 memory locations		
Monopolar Output		
POWERCUT 1 (300 W), 250 - 600		
POWERCUT 2 (200 W), 250 - 600		
POWERCUT 3 (150 W), 250 - 600		
POWERCUT 4 (100 W), 250 - 600		
CONTACT COAG (120 W), 250 - 600		
SPRAY COAG (80 W), 700 - 1200		
Bipolar Output		
BICUT (80 W), 700 - 1300		
BICOAG (80 W), 700 - 250		
Maximum Power Consumption, 550 kHz		
Frequency, 447kHz		
Modulation frequency monopolar, 20 kHz		
Modulation frequency bipolar, 1 kHz		
Weight, 9,3 kg		
Classification acc. to directive 93/42/EEC, lib		
Safety Class acc. to EN 60601-1, I		
Iec320 Power Plug and Cord 1M	1	pcs.
Doub.Foot Switch 4m Cable	1	pcs.
Silicon Neutral Elect.Large 310x160MM	1	pcs.
Silicon Rubber Band W/4 Buttons 1,5M	1	pcs.
Cable F.Silicon Neutral Electrode 3,5M	1	pcs.
3 CHIP FULL HD CAMERA WITH ZOOM	1	unit
Technical Specification :		
CCD (Inch), 3x1/3"		
Camera Resolution, 1920 x 1080pixel		
Scan Mode, Progressive Scan 60Hz		
Modes, 5 Presentings		
3 User Settings		
Video Signal Outputs, DVI-D 1080p (60hz)		
HD-SDI 1080i, 720p (60 Hz)		
HD-RGB 1080i, 720p (60 Hz)		
S-Video NTSC		
Video (composite) NTSC		
Buttons on Camera Head, 2 (6functions)		
Shutter Speed, 1/50-1/10 000 s		
Zoom, Optical (18-45mm) & digital 2x		
Colour Bars, Yes		
Dimensions Camera Head w/o, 40x53x75 mm		
Zoom coupler (w x h x d)		
Dimensions CCU (w x h x d)	: 305x89x305 mm	
weight CCU	: 4,5 kg	
Weight Camera Head w/o zoom	: 140 g	
Length Camera Cable	: 3 M	
Power Supply	: 100-240 V Ac, 50-60 Hz	
Maximum Power Consumption	: 45 va	
IEC320 POWER PLUG AND CORD 1M	1	pcs.
MONITOR	1	unit
24" FULL HD LCD MONITOR		
Panel Quality	: with anti-reflection	
	Safety glass	

	Resolution (Pixel) : 1920x1200 (full HD)		
	Viewing Angle : 178'/178'		
	Aspect Ratio :16/10		
	Video signal inputs : DVI (DVI-D) HD-RGB (4xBNC or HD-15)		
	Control inputs : RS-232 (DB 9)		
	Power input : 24 DC		
	FOOT F/15"&19" FLAT SCREEN MONITOR	1	pcs.
	IEC320 POWER PLUG AND CORD 1M	1	pcs.
	LIGHT SOURCE & FIBER OPTIC	1	pcs.
	AXEL XENON Light Source 180W,Life time 700Hour, Power Supply 100-240VAC,50-60Hz, Tasted acc.norm EN60601-1,EN60601-1-2		
	Fiber Optic Light Cable, 4.8 mm, length 250 cm	1	pcs
	IEC320 POWER PLUG AND CORD 1M	1	pcs
	TROLLEY System		
	ENDOSCOPY TROLLEY NARROW	1	pcs
	MAINS CORD ORANGE EURO-PLUG	1	pcs
	CO2 CYLINDER HOLDER	1	pcs
	INFUSION BOTTLE HOLDER	1	pcs
	CAMERA HOLDING DEVICE	1	pcs
36	HYSTEROSCOPY consists of :		
	wide-Angle Optic D;4.0mm 0' 300MM	1	pcs
	Single Scope Tray For Scops Up To 340MM	2	pcs
	Biopsy Forecep 5MM 310 MM	1	pcs
	Scissors Serr, Perit 5MM 310MM	1	pcs
	Operat.Hyster Inner AK 8CH F..PE508A	1	pcs
	Uterin Probe W/Con.Att 6,5MM/60MM	1	pcs
	Forceps W/Myoma Screw PO183R	1	pcs
	Bipolar Cable AAG/Martin AAG Flat	1	pcs
	Monopolar HF Cable 3,5M Long	1	pcs
	Two Pole Coagulation Cable F/GN060 3,5	1	pcs
	Diagyn Hystrescope Single Flow 15ch	1	pcs
	Wire Basket W/SUP Lid 1 Pack.Stenc .TE811	1	pcs
37	Instument bipolar cutting & coagolasi set Consist Of:		
	Discp.Combination instrument bipolar D:5/310MM	1	pcs
	Disp.Babcock garsping fcsp D:5/310MM	1	pcs
	Metzenbaum scissors 5MM 310MM	1	pcs
	Maryland disp.grasp fcps fen.bip 5/310MM	1	pcs
	Universal grasper D:5/310MM	1	pcs
	Disposable bipolar metz scissor 5/310MM	1	pcs
	Mini metzenbaum scissor D:5/220MM	1	pcs
	Metzenbaum sciss serr 5MM 420MM	1	pcs
	Hook scissors 5MM 310MM	1	pcs
	Bipolar maryland diss.fcps 5MM 310MM	1	pcs
	Bipolar maryland dissect fcps MM420MM	1	pcs
	Disp.sciss.shaft hook D:5MM/310MM	1	pcs
	Disp.shaft atr.grasping fcps D:5/310MM	1	pcs
	Disp.shaft babcock fcps D:5/310MM	1	pcs
	Maryland disp.grasp fcps.fen 5/310MM	1	pcs
	Hand switch for adtec bipolar	1	pcs
	foot Pedal activation, dan hand button		
38	elektrosurgery HF Unit consists of :	1	Unit
	Main cord 5M Long	1	pcs
	Vario dual foot switch 4M cable	1	pcs
	silicon neutral elect , large 310X160MM	1	pcs
	silicon rubber band W/4 buttons 1.5M	1	pcs
	Cable f.silicon neutral electrode 3.5M	1	pcs
	Neutr.elect.cable f.disp neutarl elect	1	pcs
	Disp neutral electrode long.div/adults	1	pcs
	Hdl.W/2 Activating buttons	1	pcs
	Electrode cable 3.5M LG.F.GN207 209	1	pcs
	Electrode set W/Shaft D:4.0MM	1	pcs
	Bipol.diss.FCPS part insul ang.160MM	1	pcs
	Two-pole coag cable F/GN060 3.5	1	pcs
	Bipolar cable AAG/Hexagonal	1	pcs

	Bipolar Cable hand switch AAG/AAG HEXAGONAL	1	pcs
	Wire brushf/clean coag fcps&electrode	1	pcs
	Bipolar metz scissors 5MM 310MM	1	pcs
	Bipolar maryland diss.fcps 5MM 310MM	1	pcs
	Bipolar prep.scissors fine tip 280MM	1	pcs
	Bipolar cable AAG/AAG hexagonal	1	pcs
39	Gynaecological Chair Spesification : Electromotive height adjustment from 570 - 900 mm electromotive backrest movement and table tilting Trendelenburg position up to 25o seat in examination position to be lowered up to 10o 3 programmable working positions voltage 230 V, 50 Hz, 3A reset to "0" position integrated paper roll holder in backrest, handles, movable foot control panel seat- and backrest cushion removable including headrest magnetic pillow fixation for leg holders	1	Set
40	Calpocope Spesification : Magnification : 3 Step magnification changer Magnification changer : 3x - 5x - 8x Binocular tube : Inclined 45° with f=80 mm with 19x eyepieces Eyepieces : Apochromatic and wide field 19x Objective lens : Integrated apochromatic objective lens f=300mm Filter : swing in green filter Stand : Mobile floor stand Illumination : Halogen cold light reflector lamp, 6 V, 15 W Working distance : 300 mm Camera : Compact Video Camera Video integrated + komputer + printer	1	set
41	Elektrocouter Consist Of: HF UNIT 300W MONOP.80W.BIPOLAR Monopolar Output Powercut 1, 300watt 250-600 ohm Powercut 2, 200watt 250-600 ohm Powercut 3, 150watt 250-600 ohm Powercut 4, 100watt 250-600 Ohm Contact coag, 120watt 250-600 ohm Spray coag, 120watt 700-1200 ohm Bipolar Output Bicut, 80watt 700-1300 Bicoag, 80 watt 80-250 ohm Maximum Power Consumption, 550 VA frequency, 447 kHz Modulation frequency, 20 kHz Monopolar Modulation frequency bipolar, 1 kHz Weight, 9,3 kg Dimensions (w x h x d), 305x155x305 mm Power Supply, 100-120 V AC+10%,50/60Hz 220-240 V AC+10%, 50/60Hz Protection level acc. to , CF EN 60601-1 EMV , EN 60601-1-2 Tested acc. to norm, EN 60601-1, EN60601-2-2 Classification acc. To directive, lib 93/42/EEC Safety Class acc. To EN 60601-1, I Mains cord 5M long Vario dual foot switch 4M cable Silicon Neutral elect.large 310X160MM Silicon rubber band W/4 buttons 1.5M Cable f.silicon neutral electrode 3.5M HDL.W/2 activating buttons	1	SET

	Electrode cable 3.5M LG.F.GN207 209		
	Electrode set W/SHAFT D:4.0MM		
	Bipol.diss.fcps part insul.ang.160MM		
	Two pole coagulation cable f/gn060 3,5		
	Bipolar dissecting scissors 230MM		
	Bipolar cable AAG/AAG hexagonal		
	Wire brushf/clean coag fcps&electrodes		
42	Cyrosurgery Spesification : Nitrogen Pump + regulator + Slang + spray	1	set
43	Fetal Monitor 8 bed with central Software Spesification : Ultrasound Technique : Pulse doppler with auto-correlation digital signal processing Center frequency : 1.024 MHz Intensity : 2.5 mW/cm2 typical Heart rate range : 50-240 BPM Signal Indicator : Flashing LED with heart rate Uterine Activity Range Tocotonometer : 0-100 Relative units Physical Dimension : 18 cm H x 24.2 cm W x 13 cm D Weight : Approximately 1.9 kg Power Line Voltage : 100-120 VAC or 220-240 VAC Line frequency : 50/60 Hz Internal Battery : : Battery operation 4 hr typical Display Monitor : Back-lit LCD screen 10.3 cm x 7.9 cm	1	set
44	USG 4 Dimensi Spesification : Main Unit with minimal 19" LCD Monitor Touch Screen 10.4 in High Resolution color LCD Screen Integrated HDD minimal 160GB Integrated DVD+R(W) / CD-R(W) drive Automatic Tissue Optimization Harmonic Imaging High Definition-Flow (Advance Techology of Color and Power Doppler Imaging) Panoramic View Speckle Reduction Imaging Compound Resolution Imaging Static 3D Mode Focus Frequency Composite (FFC) High resolution Zoom Pan Zoom Streering Virtual Convex Beta View Patient Information database Image Archieve on hard Drive 3D/4D data compression (lossy/lossless) Inversion Real-time automatic Doppler calculations Measurement & Calculations including Report for : OBGIN,VASCULAR,CARDIO,SMALL PART, SMALL PART,UROLOGY,PEDIATRIC,ORTHO,NEUROLOGY,MULTIGESTATIONAL CALCULATION Min 60.000 system processing channel technology 4D Real Time Volume Calculation Volume Contrast Imaging with Omniview 4D-STIC Tomography Ultrasound Imaging Auto Volume Calculation for follicle Auto NT measurement	1	Unit

	<p>Auto 4D Render Start DICOM Software Packages for post processing (for re-construction, measurement etc. for presentation or educational purpose) PROBES :</p> <p>4D Convex Volume Probe Applications : Abdomen, OB Gyn, Pediatric, Urology Maximum Band Width (-20dB) : 4 – 8.0 MHz Number of Elements : 192</p> <p>4D Transvaginal Volume Probe with High Frequency Applications : OB Gyn, Urology Maximum Band Width(-20dB) : 5.0 – 13.0 MHz Number of Elements : 256</p> <p><i>Include:</i> B&W Printer Color Printer UPS 2 KVA True Online Basic User Manual Eksternal LCD 32" (include VGA Cable + Bracketed)</p>		
45	<p>Cathlab Specification :</p> <p>The latest design and model of a single plane flat detector angiography system with the technical and functional capabilities for diagnostic and therapeutic of cardiac, vascular and neuro procedure completed with an integrated interventional tools make it the best use in its class for interventionists.</p> <p>The system shall be capable of generating high quality and high resolution images for both diagnostic and therapeutic interventional applications.</p> <p>The system shall provide integrated safety devices for patient and equipment by an active anti-collision device. In the event of power failure, or software hand-up, fluoroscopy shall recover instantly during the examination.</p> <p>The system shall be interfaced with hospital RIS, PACS / CIS using DICOM and HL7 standards</p> <p>The proposed system shall have the following main features:</p> <p>A latest hardware and software with up to 55deg/sec high speed rotation for Rotational Angiography.</p> <p>An extension of Rotational Scan, providing real-time 3D impressions of the coronary artery tree. It acquires multiple projections with one contrast injection via a fast dual axis rotational scan of the region of interest. Rotation and angulation movements are combined in one complete scan trajectory, using the maximum rotation and angulation speed of the system (up to 55°/sec</p> <p>Capable of real time Digital Angiography (DA) and Digital Subtraction Angiography (DSA) acquisitions.</p> <p>Capable of head to toe patient coverage without changing position of the patient, full body coverage</p> <p>High frame speed acquisition of up to 30 fps or better</p> <p>Capable of fluoro grabbing of fluoroscopic runs for documentation.</p> <p>Clinically validated Coronary Quantification Analysis and Left Ventricular Quantification Analysis</p> <p>Ceiling mounted system with positioning at 3 sides of the table for excellent patients access for various techniques and procedures.</p> <p>Interventional tool for pre and post stent deployment and better visualization especially for drug elution stents in relation to the vessel wall</p> <p>Automatic stand positioning programme.</p> <p>Generator</p> <p>The system shall be multi-pulse, microprocessor-control and high power generators with high frequency inverter</p> <p>Maximum Power output > 100 KW</p> <p>Radiographic mA range:</p> <p>- Lower limit < 10 mA</p> <p>- Upper limit > 125mA</p> <p>Radiographic kV range:</p> <p>- Lower limit, < 40 kV</p> <p>- Upper limit, > 125 kV</p> <p>Radiographic exposure timer range:</p>	1	set

- Lower limit, < 1ms
- Upper limit, > 4 Sec
Fluoroscopic mA range :
- Lower limit, < 10 mA
- Upper limit, >200 mA
Fluoroscopic kV range:
- Lower limit, < 40 kV
- Upper limit, > 110 kV
Pulsed fluoroscopy:
- Max 30 pps
- Min 3,75 pps
Footswitch for fluoroscopy and acquisition
Pre-programme exposure and procedure protocol
i). Unlimited number of programmable protocol, includes setting of examination, procedure and X-ray
ii) Each acquisition protocol shall be able to programme the right X-ray parameters, processing, frame speed including pre-filtration settings, image appearance, etc. based on type of procedures and type of patients.
X-ray Tube
High performance x-ray tube assembly with spiral liquid bearing technology and noise-free rotation which meets and exceeds requirements for cardiac and all vascular applications.
Grid Switch with continuous rotating anode
Anode heat storage >2,4 MHU
Max. anode heat dissipation > 11 kW
Continuous anode heat dissipation >3,2 kW
Direct oil cooling through spiral groove bearing with circulation oil /air heat exchanger
X-ray tube housing heat dissipation > 5,4 MHU
Dual focal spot size:
i) Small focus < 0,4 mm
ii) Large focus > 0,7 mm
i) Max input power for Large focal spot (IEC) < 67 kW
ii) Max input power for Small focal spot (IEC) < 30 kW
Extra X-ray tube pre-filtration for patient dose savings, besides inherent filtration:
i) Material copper
ii) Thickness 0,2 ; 0,5 ; 1,0 mm
Collimator
Automatic collimation system with near shutters iris diaphragm.
Spectral filtration shall be incorporated.
Shutters and wedges can be positioned without exposure and can be visualized on screen.
The wedged filters shall be independently controlled from the table side
Automatic wedge positioning shall be available for cardiac applications
C-arm stand
Ceiling suspended C-arm
i) Motorized and manually positioned
ii) Position at head end, left and right side of patient
C-Arm Rotation (LAO/RAO) :
i) Head end 120 derajat LAO - 120 derajat RAO Deg
ii) At left and right side of patient 45 derajat LAO - 45 Derajat RAO deg
C-Arm angulation (Cranial/Cau) :
i) Head end 45 derajat Cranial - 45 derajat Caudal deg
ii) At left and right side of patient 120 derajat Cranial - 120 derajat Caudal
Focus spot to iso-centre 76 cm
Iso-centre to floor 106 cm
Focus to flat detector distance (SID) :
i) Lower limit < 70 cm
ii) Upper limit > 120 cm
iii) Shall allow motorized and manual SID movement
C-Arm throat depth/inner radius 105 cm
i) C-Arm rotation speed > 25 derajat /sec
ii) C-Arm rotation speed for rotational scan >55 derajat/sec
C-Arm angulation speed >25 derajat/sec
Patient protection mechanism is to protect the patient from unexpected contact between the detector and the body. The active capacitive sensing to prevent collision at both the detector and tube side

Parking during emergency: The stand shall be able to be fully parked away from the patient table manually and by motorized movement.
Automatic positioning stand program
Unlimited number of pre-program stand position sequences can be stored. Each type of procedure can store up to 10 stand position sequences
Personalised to active user and procedure
Programmable parameters: Shall include at least the rotation, angulation, SID and detector.
Roadmap-driven positioning: Able to automatically position the stand to the position the stand to the original stand parameter setting of the roadmap image selected. The stand parameter shall include at least the rotation, angulation, SID and detector orientation.
Selection of the APC programme shall be quick and easy from the patient tableside where selection of the positions shall be correlated directly with the procedure and user.
Patient Table
Floor-mounted radio-translucent floating top.
Tabletop length > 310 cm
Table-top height range 80 - 105 cm
Table-top width 50 cm
Transverse tabletop travel range 36 cm
Longitudinal tabletop travel range 120 cm
Tabletop pivot range and no. of locking positions -90 degrees + 180 degrees
Table loadability : Supports patient weight (with fully extended tabletop working position away from the table base [IEC standard]). CPR can be performed while the tabletop is set in any longitudinal position >250 kg + 50 kg for CPR
Lead protection shield under patient table
Flat Detector
Detector type please state
Number of effective imaging formats please state
Detector size: state detector physical and including housing size >26x26 cm ²
Detector field of view >18 x 18 cm ²
Image matrix > 1024 x 1024 matrix
Pixel size < 184 x 184 mikrometer persegi
Bit depth > 14 bit
Output resolution at 8 bit > 1024 x 1024 matrix
Detector quantum efficiency > 75% saat 0 Lp/mm
Image display
Examination room : At least 3 monitors, includes 2 TFT-LCD B&W monitors, for live images display & reference images, 1 color LCD for hemodynamic display at least 3 monitor
i) Monitor size >= 18 inches
ii) Image matrix > 128x1024 sxga
iii) Monitor brightness > 600 Cd/m ²
iv) Monitor mounting
v) Monitor carriage
Control room at least 2 TFT - LCD Monitor
i) Data monitor >= 18 inches colour
ii) Image monitor >= 18 inches B/W
iii) Image matrix > 1280 x 1024 sxga
On screen display for stand position, tilt position, tube load status, fluoro mode, frame speed, detector field size, exposure factors, both rate and accumulated dose shall be available in the exam room shall be provided in the control room.
Digital Imaging System
Digital angiography (DA), Digital Subtraction Angiography (DSA) capability and pulsed fluoroscopic acquisition capabilities.
Acquisition frame rate :
i) Variable frame rate range 3,75 , 7,5 , 15 & 30 fps
ii) Acquisition matrix at 12 bit 1024 x 1024 matrix
Pulsed fluoroscopy frame rate :
i) Variable pulse rate range: 3,75 , 7,5 , 15 & 30 fps
ii) No. of selections at the table side of different pre-programmed dose rate and pre-filtration combinations for optimal balanced between dose and image quality.
Fluoro grab

i) Grab and store fluoroscopic run (no. of fluoro images per grab) > 999 image
ii) Grab fluoroscopic run must be recallable and reviewable in cine loop
DSA functions shall include the following:
i) Real-time subtraction at all frame rates for fluoroscopy mode and acquisition mode frame speed of 0,5 , 1, 2, 3, or 6 fps
ii) Live 2D roadmap capability
iii) Mask and remask selection
iv) Landmarking
v) Pixel shift
vi) All the above functions must be easily selectable and operable inside the examination from the tableside
Number of roadmap images can be store store . Cine loop must be possible up to 999
Able to select, store and display simultaneously 2 reference images on 2 separate monitors in examination room
Shall have ability to acquire and store up to at least 2 physiological data and display at least one real time physio data with acquired images simultaneously.
Image storage disc capacity:
i) Storable matrix size at 10 bit > 1024 x 1024 matrix
ii) Image storage at 1024 matrix, 10 bit >100.000
Shall provide the following DICOM protocols:
i) DICOM Store / Send
ii) DICOM Modality Worklist Management
iii) DICOM Modality Procedure Performance Step
iv) DICOM Query and Retrieve
v) DICOM Print
vi) DICOM Storage Commit
Conformance Statement shall be submitted.
System Controls and user interface
Tableside controls for all geometry, imaging parameters, procedure controls including acquisition programme, automatic positioning and processing and Quantification analysis functionality.
Patient management, acquisition and data management shall be controlled from one keyboard and mouse and supports workflow process of scheduling, preparation, acquisition, review, report and archiving.
Image review and post processing : Shall be able to provide the following functions at the operator console -
i) Variable view speed
ii) Forward / reverse
iii) Cine loop functions
iv) Window width and window level functions
v) Image inversion
vi) Store image to roadmap file
vii) Select roadmap image
viii) Pan / zoom enhancement
ix) Examination overview of up to 16 images
x) Free text annotation.
xi) Individual images, runs or examination can be selected for archive
xii) Re-masking, pixel shift and landmarking.
Quantitative Evaluation Software at control console
i) Shall be clinically validated
ii) Automated Left Ventricular Analysis including Manual Ejection fraction, Regional Wall Motion, Centerline Wall Motion, Slager Wall Motion, Calibration routines, Recalculate EF, Recalculate ALVA shall be available.
iii) Automatic & manual coronary vessel diameter, stenosis ratio measurement must be available.
iv) Automatic & manual vascular vessel diameter, stenosis ratio measurement must be available
Two infrared handheld remote controls for image review, freeze, selection of roadmaps and image store shall be available
Rotational Angiography
Acquisition mode : Shall be possible for any body part to provide 3D impression of the complex vasculature and coronary arteries including lower limb.
Rotation at head end
i) Speed > 55 derajat / sec

ii) Rotation angle > 240 deg
iii) Frame rate 15 or 30 fps
Subtracted run and unsubtracted run shall be possible. Choice to abort the mask run during the subtracted rotational angio run shall be possible if the contrast rotational angio run has sufficient diagnostic information.
Fast dual axis rotational scan (min 30 deg/s) is required.
DICOM CD Recording
DICOM CD-Recording workstation for archiving DICOM XA and secondary capture images of selected images or entire examination on DVD in DICOM format.
Software should allow multi-session recording for the same patient
Software should allow multi-patient recording
Software shall support automatic writing to multiple disks of the same patient if the CD/DVD space is not sufficient.
A DICOM viewer software should be incorporated into the DICOM CD/DVD media for review in any standard PC.
Comply with DICOM 3 standard.
Interventional Packages
Pre-and post stent deployment tool :
Should provide a mechanism or software tool for improved accuracy and success of pre- and post stent deployment. The tool shall allow the user to:
i) Enhance visualisation of balloon or stent positioning before deployment in relation to the vessel walls
ii) Enhance visualisation of stent after deployment to ensure proper and homogeneous expansion in clear relation to the vessel walls in DA and DSA
iii) Enhance visualisation of hard calcification
iv) Improve visualisation of stent condition e.g. tapering, crack, etc
v) Perform measurement on stent after deployment to check and record the homogeneity of expansion
The tool should be in real-time and easy to use with no operator's interaction and steps required except for measurements. Results should be instantaneous.
The tool should be controllable at the tableside and control room.
The image shall be displayed in the examination room at the monitor ceiling suspension. At least 19" TFT-LCD colour monitor.
This mechanism or software tool shall be clinically proven in terms of low cost comparative clinical outcome to IVUS. Provide names of clinical papers, doctor's name and institution.
Shall be able to store/archive on CD-R and USB device the captured images in JPEG, AVI movies and VRML file formats, viewable on standard PC.
DICOM 3 compatible to send DICOM secondary capture to DICOM nodes e.g. PACS and DICOM printer.
Haemodynamic Monitoring System
Able to monitor all required Haemodynamics parameters in a cath lab.
Shall be able to acquire the following parameters:
i) 12 Lead ECG
ii) NIBP, Adult & Neonate
iii) SpO2
iv) Integrated Thermal Cardiac Output
v) Respiration
vi) At least 4 Invasive Pressures
vii) Body Surface Temperature
viii) Signal quality: At least 16 bit with variable sampling rate of up to 10 MHz.
Shall have comprehensive Haemodynamic Analysis Software.
Shall have editable Coronary Tree and Vascular tree annotations with Standard Cardiac and Peripheral Templates linked to clinical database.
Shall have Paediatric Congenital Heart Diagrams
Shall have Full disclosure for recording and storing all waveform data for post case review and analysis.
Shall include the following accessories:
i) Patient cable set of SpO2 Extension, SpO2 Finger Probe and NIBP Hose
ii) One (1) each Adult/Large Adult Cuff
iii) ECG cable with 12 lead
iv) Radiolucent lead set
v) ECG lead covers
vi) Cardiac output cable with bath temp probe
vii) Surface body temp cable

	viii) Two (2) each pressure adaptor cables		
	Installation, Training and Room preparation		
	Installation and Training		
	Operation manuals include		
	Warranty 1 tahun		
	Persiapan ruangan include		
	Supporting items:		
	Contrast injector	1	Unit
	Mattress	1	unit
	Cath arm support	1	Pair
	I/V drip stand attachment at the table	2	unit
	Peripheral filter set for lower limb angiography	1	Unit
	Set of arm supports	1	set
	Patient resistant straps	2	set
	Head fixing aid	1	set
	Examination light	1	Unit
	Ceiling suspended lead shield	1	Unit
	Tableside lead shield	1	unit
	Two-way hands free intercom system	2	unit
	Defibrillator	1	unit
	Transport monitor	1	unit
	Equipment trolley	1	unit
	Avoxyometry	1	unit
	Generator TPM	1	unit
	Thyroid shield	4	pcs
	Lead glass 100 x 200 cm	1	pcs
	UPS 25 kVA for Fluoroscopy function	1	unit
46	<p>Portable Ultrasonografi</p> <p>Spesification :</p> <p>Technology : Trusacn architecture</p> <p>Software- intensive ultrasound- imaging platform that gives unsurpassed computational power</p> <p>image-manipulation capability , workflow flexibility and product up grade – ability , via software or hardware .</p> <p>Tru Access :</p> <p>raw data processing technology that will change the future of ultrasound imaging.</p> <p>Smart Scan :</p> <p>utilities new advances in operating algorithms and system operations to improve image acquisition</p> <p>ComfortScan :</p> <p>ergonomic design ever , help maximize productivity and simplify every exam user perform.</p> <p>Standard Features:</p> <p>Monitor : High resolution 10,4 inch Color LCD</p> <p>Automatic Optimization : Auto Tissue Optimization</p> <p>: Auto Spectrum Optimization</p> <p>Calculation : Vascular Cals</p> <p>: Abdominal Cals</p> <p>: Cardiac Trending</p> <p>: OB Cals & Tables</p> <p>: Urological Cals</p> <p>: Gynecological Cals</p> <p>: Renal Cals</p> <p>: Multi Gestational Cals</p> <p>: Fetal Trending</p> <p>: Full M & A Calculation package with Real time Auto</p> <p>Doppler</p> <p>: True Access ,Raw Data Processing</p> <p>: Intraoperative</p> <p>Console Design : Laptop Style</p> <p>: Integrated HDD (40 GB)</p> <p>: Wireless LAN support</p> <p>: 1 probe port with micro-conector</p> <p>: Rear handle</p> <p>Applications :Abdominal</p> <p>:Cardiac</p> <p>:Obstetrical</p>	1	set

	<p>:Gynecological :Musculoskeletal :Vascular :Urological :Small Parts and Superficial :Pediatric and Neonatal : Intraoperative</p> <p>Operating Modes : B-Mode : M-Mode : Color Flow Mode : Power Doppler Imaging : Pulse Wave Doppler : Triplex : Harmonic</p> <p>Composition: 1 main Unit 1 probe 8L-RS Wide Band Linear Probe 4-10 MHz 1 probe Wide Band Convex 2-5 MHz 1 printer B/W 1 printer Colour 1 trolley local</p>		
47	<p>Stres test system with treatmil</p> <p>Spesifikasi :</p> <p>Signal processing</p> <p>ECG analysis frequency : 500 Hz</p> <p>ST measurements :ST amplitudes, slope, Integral, Index, ST/HR slope, :ST/HR Index up to 15 leads</p> <p>E, J and post-J point :Manual or computer selected</p> <p>Signal processing technique :Incremental median updating</p> <p>Baseline correction :Cubic spline or Finite Residual Filter (FRF) algorithm</p> <p>QRS detection and analysis :sed on automatic or manual lead selection</p> <p>ECG output :Real-time ECG/QRS beep/ITL synchronization output</p> <p>Heart Rate :Automatic arrhythmia detection</p> <p>Full disclosure ECG :Beat-to-beat ECG record and event review</p> <p>Reanalysis :Post-test medians measurements from E,</p> <p>Resting ECG Intepretation :For intepretationfor adult and pediatric</p> <p>Special function include</p> <p>Lokal Storage min 40 GB hard drive storage</p> <p>Adobe® PDF export of configured reports</p> <p>Microsoft® Word export of configured reports</p> <p>CD Archieve with CD writer capability</p> <p>Data Acquisition :Digital Acquisition Module</p> <p>Technology :Active "Type BF" floating isolated powered 14 channel acquisition :module with built-in lead-fail detection and lead prep impedance measurments</p> <p>Sampling rate : Over-sampling @ 4000 Hz, 12 leads</p> <p>Dynamic range :320 mV,± 10mV signal superimposed on ± 150 mV DC offset</p> <p>Resolution :4.88 µV/LSB @ 500 Hz</p> <p>Noise :< 15 µV peak-to-peak noise over 0.01 to 150 Hz (-3 dB) bandwidth</p> <p>ECG analysis frequency :500 Hz</p> <p>ST measurements :0.01 (or 0.05 Hz, special use) with DC offset control</p> <p>High pass filter :20.40.100.150 Hz (selectable)</p> <p>Low pass filter :50.0 or 60.0 Hz notch filter (selectable)</p> <p>Line filter :Cubic spline algorithm</p> <p>Baseline correction :>140 dB (123 dB with AC filter disabled)</p> <p>Artifact/baseline correction > 10 M Ohms @ 10 Hz, defibrillator protected</p> <p>Common mode rejection <10 µA</p> <p>Input impedance :Orthogonal LA, LL and V6; 750 µV @ 50 µs</p> <p>Patient leakage</p> <p>Pace detect</p> <p>Display :LCD (Flat Panel Display)</p>	1	set

Display Type	:1280 x 1024	
Display Rosolution (min)	:19 inch	
Display Size	:3,6,12 or 15	
Monitor Leads	:Number on screen 3,6,12 or 15	
Display	: ST Scan/median complexes, arrhythmias, 3 to 12 lead waveforms, lead check	
Data	:torso and 12 lead, trend, tabulat summary, stored ECG strip, intepretation, time	
	,of day clock, patient name, warning massages and prompt	
Writer		
Writer Technology	:Instant load, thermal dot array	
Writer leads	:3,6,12, or 15	
Writer speed	:5, 12.5, 25 and 50 mm/sec	
Paper type	:Thermal, Perforated, Fan-fold,	
TREADMILL		
SPESIFIKASI :		
Physical Specifications		
Weight	: 400 lbs	
Walking area	: 18 x 60 inchi	
Floor space required	: 29 x 77 inchi	
Walking surface height	: 5.5 inchi	
Handrail height	: Front - 40 inchi	
above walking surface	: Side - Maximum 35 inchi descending	
	: at a 5° angle to 32 inchi	
Environment Specifications		
Power requirements	:200 to 240 VAC, 50/60 Hz, single-phase, 20 amperes,	
	:NEMA 6-20 R wall socket (dedicated circuit recommended)	
Operating Conditions		
Ambient temperature	:50° F to 95° F (10° C to 40° C)	
Storage Conditions		
Temperature Range	:0° F to 120° F (-18° C to 49° C)	
Performance Specifications		
Maximum rated load	: 450 lbs. (204 kg)	
Belt speed range	: 0 to 13.5 mph at 220 VAC/60 Hz continuously	
Driver motor	: 3.0 hp	
Elevation motor	: 1/10th hp	
Elevation range	: 0 to 25% grade, continuously variable	
Maximum leakage current	: 100µA, chassis to ground	
Patients Safety		
60-inch walking surface		
Two stopping modes		
Standard full handrail set		
Standard emergency stop switch		
Starts from 0 mph		
0 to 13.5 mph speed range		
Weight capacity of 450 lbs		
0 to 25 percent grade range		
Reliability		
Enchanced tolerance to electrical changes for greater patient safety		
3.0 horsepower motor		
Self - calibrating for speed and grade		
Digital control insures precise speed and grade control		
Accessories :		
1.Digital Acquisition Module with 10-leadwire, AHA, Grabber Patient Cable		
2.Treadmill with Power Cord & Interface Cable to Sresstest System		
3.Accessories Kit, includes:		
Disposable Electrodes (sample packs), Recording Paper (sample pack)		
4.Operator manual		
5. Service manual		
48 Neonatal to adult ventilator	1	set
Spesification :		
Ventilator Mode		
Control / Assist Control (A/C) / Continuous Mandatory Ventilation (CMV).		
Synchronized Intermittent Mandatory Ventilator (SIMV).		
Continuous Positive Airway Pressure (CPAP) / Spontaneous (SPONT).		
Pressure Support Ventilation (PSV).		
Bilevel (APRV, BIPAP, BIVENT) with Pressure Support.		

Tube Compensation (TC).
Volume Ventilation Plus - VV+/ (PRVC, VS).
Tube Compensation (TC).
Proportional Assist Ventilation Plus (PAV+).
Respiratory Mechanic (RM).
Trending.
Leak Compensation (LC).
NeoMode.
Non Invasive Ventilation (NIV)

Mandatory and Spontaneous Breaths Delivery :
Pressure Control Ventilation (PCV).
Volume Control Ventilation (VCV).
Volume Control Plus with volume Ventilation.
Pressure Support Ventilation (PSV).
Volume Support (VS).
Tube Compensation (TC).
Proportional Assist (PA).

Ventilator Setting :
Tidal Volume: 5 to 2500 ml (with IBW scale).
Respiratory Rate: 1.0 to 150 bpm.
Peak Inspiratory Flow: 3 to 150 lpm for IBW > 24 kg, 3 to 60 lpm for IBW < 24 kg.
Flow Pattern: Square and Descending Ramp.
Plateau Time: 0.0 to 2.0 seconds.
Inspiratory Pressure: 5 to 90 cmH₂O.
Pressure Support: 0 to 70 cmH₂O.
Flow Acceleration %: 1% to 100%.
Expiratory Sensitivity: 1% to 80%.
Constant during rate change: Inspiratory time (Ti), I:E Ratio or Expiratory time (Te).
Inspiratory time: 0.2 to 8.0 seconds.
I:E ratio : < 1: 299-4.00 : 1.
Expiratory time : >0.2 seconds.
Trigger type: Pressure trigger or Flow Trigger (Flow-by).
Pressure sensitivity: 0.1 to 20 cmH₂O below PEEP.
Flow sensitivity: 0.5 to 20 lpm.
O₂ %: 21% to 100%.
PEEP: 0 to 45 cmH₂O.
Apnea ventilation: Apnea mandatory type-volume control (VC) or Pressure control (PC).
Apnea flow pattern: Square or Descending ramp.
Disconnect sensitivity (Dsens): 20% to 95%.
Humidification type: Heat-moisture exchanger (HME), non-heated expiratory tube or heated expiratory tube.

Monitored Data :
Breath type: Indicates the type (control, assist, or spontaneous) and phase (inspiration or exhalation) of breath being delivered.
Delivered O₂ %.
End expiratory pressure.
End inspiratory pressure.
Exhaled minute volume.
Exhaled tidal volume.
I:E ratio.
Maximum circuit pressure.
Mean circuit pressure.
Spontaneous minute volume.
Total respiratory rate.
Rapid Shallow Breathing Index (RSBI).
Integral waveform function includes choice of:
Pressure time curve, flow time curve, volume time curve, pressure volume loop (one or two waveform curve or one pressure volume loop can displayed at the same time). Pressure volume loop automatically calculates inspiratory area. All waveform can be frozen.
Adjustable baseline and vertical / horizontal axis scales.
Waveform are automatically displayed and frozen when you press INSP PAUSE or EXP PAUSE. In INSP PAUSE, the calculated values for compliance, resistance are displayed after the inspiratory pause. In EXP PAUSE, the measured values for intrinsic and total PEEP are displayed during and after

	the expiratory pause.		
	Power Requirements: 220-240 VAC/50-60 Hz Internal Battery back up to at least 30 minutes extreme setting.		
	Accessories: unit ventilator : NeoMode, Non Invasive Ventilation (NIV), Tube Compensation (TC), Bilevel, Volume Ventilation Plus (VV+), Proportional Assist Ventilation Plus (PAV+), Respiratory Mechanic (RM), Trending, Leak Compensation (LC).		
	mobile cart/trolley	1	Pcs
	internal battery	1	Pcs
	heated humidifier system	1	Pcs
	adult breathing circuit	2	Pcs
	infant breathing circuit	2	Pcs
	heater wire adapter	1	Pcs
	temperature probe	1	Pcs
	humidifier chamber	2	Pcs
	exhalation filter reusable	2	Pcs
	inspiration filter reusable	2	Pcs
	lung test	1	Pcs
	operating manual	1	Pcs
	flex arm	1	Pcs
	Power cord	1	Pcs
	O2 pressure hose	1	Pcs
	Air pressure hose	1	Pcs
	humidifier mounting bracket	1	Pcs
	Aeroneb AGA Nebulizer	1	Pcs
49	Pasien monitor	1	set
	Spesifikasi ECG Number of Leads: 3- or 5-Lead		
	Lead View: User-selectable Gain Selection: x0.5, x1, x2, and x4 Frequency Response: Diagnostic: 0.05 to 100 Hz (-3dB); Monitor: 0.5 to 40 Hz (-3dB); ST: 0.05 to 40 Hz (-3dB) Electrosurgery Protection: Defibrillator Protection: Pacer Detection/Rejection: ST Accuracy: ±0.2 mm or ±5% of reading, whichever is greater, over heart range of 30 to 120 bpm ST Range: -6.0 to 6.0 mm		
	NIBP (Non-Invasive Blood Pressure)		
	Technique: Oscillometric measure upon inflation		
	Measurement Cycle: < 40 sec. typical Auto. Measurement Cycles: 2, 3, 5, 10, 15, 30 min; 1, 2, 4 hr		
	Max. Allowable Cuff Pressure: Adult/Pediatric: 300 mmHg; Neonate: 150 mmHg		
	Range: Adult/Pediatric: 30-300 mmHg; Neonate: 20-150 mmHg		
	Resolution: 1 mmHg Transducer Accuracy: ±2 mmHg or ±2% or reading, whichever is greater, over full range		
	STAT Mode: 5 min of consecutive readings Clinical Accuracy: Complies with AAMI SP-10:2002 Pulse Oximetry Range: 1% to 99%		
	Resolution: 1 %		
	Accuracy:		

70% to 99% range: $\pm 2\%$; 50% to 69% range: $\pm 3\%$; < 50%: unspecified

Method:

Dual wavelength LED

Heart (Pulse) Rate

Source:

User selectable: Smart, ECG, Pleth, NIBP, IBP

Range:

20 to 300 bpm (ECG, Pleth);

30-240 bpm (NIBP); 30-300 bpm (IBP)

Accuracy:

± 1 bpm or $\pm 1\%$ (ECG) whichever is greater

Temperature

Channels: 2

Range, Accuracy:

68° to 113°F (20° to 45°C): $\pm 0.1^\circ\text{C}$

Display Resolution: 0,1 derajat

Probe:

YSI-400 and YSI-700 Series

Respiration

Rate:

6 to 150 bpm (ECG); 2 to 120 bpm (CO₂)

Resolution: 1 bpm

Accuracy:

± 2 bpm or $\pm 2\%$, whichever is greater

Source:

User selectable: Smart, CO₂, ECG

CO₂

Units:

mmHg; %; kPa; Torr

Method:

Non-dispersive infrared; autocalibrating

N₂O Compensation: manual On / off

Range:

0–99 mmHg; 0–12.5%; 0–12.5 kPa; 0–99Torr

Resolution:

1 mmHg; 0.1%; 0.1 kPa; 1 Torr

Flow, Sample Rate: 200 ml/min

Accuracy:

± 2 mmHg; ± 0.3 vol. %; ± 0.3 kPa; ± 2 Torr

or $\pm 4\%$ of reading, whichever is greater,

at 200 ml/min & respiratory rate of ≤ 120 bpm

Rise Time: 170 ms (10–90%) at 200 ml/min

IBP (Invasive Blood Pressure)

Channels: 1 or 3

Transducer Sites: Selectable: ART, PA, LV, RV, LA, RA, CVP, ICP

Pressure Range: -10 mmHg to 300 mmHg

Transducer:

Freq. Response 0–20 Hz; Impedance >300 ohms;

Sensitivity 5 $\mu\text{V/V/mmHg}$

Accuracy: ± 1 mmHg or $\pm 1\%$, whichever is greater

Alarms

Indication: Audible; Visual

Silence: Yes; 2 minutes or permanent

Trends

Memory: 24 hours at 30 second intervals

Display: Tabular, Graphical

Display

Screen:

12.1" active color TFT, with EXTERNAL VIDEO OUTPUT

External Monitor display 18,5 inch minimal

Waveforms: 6, max

Waveform Types:

ECG Leads I, II, III, aVR, aVL, aVF, V; CO₂;

Respiration; Pleth; IBP; breath-by-breath CO₂;

ST Histograms; Mini-Trends; OXY-CRG

Sweep Speed: 6.25, 12.5, 25, or 50 mm/sec

Controls

Keys: 10; membrane-activated

	<p>Rotary Knob: Push and rotate; 24 steps/turn</p> <p>System Outputs</p> <p>COM ports: Two RS232-compatible DB9 ports; USB; Ethernet</p> <p>Nurse Call: Contact switch; 3.5 mm stereo phone jack, 14 mm</p> <p>Defib/Sync</p> <p>Video Port: Serial VGA compatible</p> <p>DC Out: 5 VDC output for optional wireless accessory</p> <p>External Module Port: 8-PIN circular connector</p>		
	<p>Printer Type: Thermal line printer</p> <p>Paper Speed: 12.5, 25 or 50 mm/sec</p> <p>Weight approx : 5.4 kg</p> <p>Size: 30.5 cm (H) x 36.8 cm (W) x 29.2 cm (D)</p>		
	Voltage: 100 to 240 VAC; 50/60 Hz		
	Power Consumption: 35 W, typical		
	Battery: 1 sealed lead acid		
	Battery Life: 2 hours with no external modules		
	Recharge Time: 4 to 6 hours, typical		
	<p>Environmental</p> <p>Operating Temperature: 32° to 104°F (0° to 40°C)</p> <p>Storage Temperature: 23° to 122°F (-5° to 50°C)</p> <p>Operating Humidity: 15% to 90%, noncondensing</p>		
	<p>Classification Medical Device: Class II Equipment (IIb EU)</p> <p>Electrical Protection: Class I Equipment</p> <p>Degree of Protection: Type CF, Defibrillator-proof</p>		
	Accessories Included:		
	Pediatric Reusable Pita finger sensor 3 ft	1	Pcs
	NIBP Cuff Neonate 3-6cm (pkg of 10)	1	pkg
	NIBP Cuff Neonate 7-13cm (pkg of 10)	1	pkg
	NIBP Cuff Neonate 8-15cm (pkg of 10)	1	pkg
	NIBP Hose - 4 ft. Straight for Neonates - QC	1	PCs
	NIBP Cuff Child (Pkg. of 10)	1	pkg
	NIBP Hose - 4 ft. Straight - QQ	1	Pcs
	NIBP Cuff for child/small adult Blood pressure cuff 18-26cm	1	Pcs
	IBP Connectors (Set of 4)	1	pkg
	SpO2 Neonatal disposable probes 25/pkg	1	pkg
	SpO2 Infant Disposable Sensors (Box of 25)	1	pkg
	SpO2 Pediatric Disposable Sensors (Box of 25)	1	pkg
	3 Lead Cable - DIN Style .060	1	Pcs
	Neo/Ped ECG Cables & Leadwires Disposable 3 Lead Pre-wired	1	pkg
	Electrodes DIN Style .060 (Case of 100)		
	Hydrophobic Disk Filter (Pkg. of 25)	1	pkg
	Rectal/Esophageal Temperature Probes REUSABLE	2	pcs
	Skin Surface temperatur Probe	1	Pcs
	Temperature Interconnect Cable	1	Pcs
	Genuine TROLLEY	1	Unit
50	<p>Endoscopy system</p> <p>spesifikasi :</p> <p>Video Prosesor & Light Source</p> <p>Specification:</p> <p>VIDEO PROCESSOR</p> <p>Digital Output : DVI</p> <p>Analog Output :</p> <p>RGB(2) : SDTV (NTSC / PAL)</p> <p>Y/C(2) : SDTV (NTSC / PAL)</p> <p>Composite : SDTV (NTSC / PAL)</p> <p>Color Adjustment : Black, Red, Green, Blue, R-Hue, Chroma</p> <p>Detail : Hi, LO: 9 settings</p> <p>Contrast (Gamma) :adjustuble</p> <p>BLV : Hi, Mid, Lo, Off</p> <p>Picture in Picture</p> <p>Auto Gain Control,Iris,image Zoom,lamp rate value</p> <p>Min. 150W Xenon lamp</p> <p>(Emergency lamp 75W Halogen lamp)</p> <p>Brightness control</p> <p>Lamp cooling method : Force air cooling</p> <p>Air supply pump : Hi,Low,Off</p> <p>Power Supply : AC 120 V 60Hz / 230 V 50Hz</p> <p>Dimension : 375 x 190 x 495mm</p>	1	Set

Weight : 17 Kg		
Standard Accessories:		
DVI Cable	1	Pcs
Power Cord	1	pcs
Data Keyboard	1	unit
Video Gastroscope		
Specifications :		
Viewing direction : Forward		
Observation range : 4"100 mm		
Field of view : 140 derajat		
Distal end diameter : 9,4 mm		
Flexible portion diameter : 9,3 mm		
Bending capability: Up / Down : 210 derajat / 90 derajat		
Right / Left 100 derajat / 100 derajat		
Forceps channel diameter 2,8 mm		
Working length : 1.100 mm		
Total Length : 1,400 mm		
Standard Accessories:		
Biopsy Forceps	1	Pcs
Channel Cleaning brush	1	pcs
Forceps Valve Rubber (FOV-DV1)	1	pack
Washing adapter (CA-300)	1	set
Silicone Oil	1	Btl
Lens Cleaner	1	btl
S Connector Cap	1	pcs
Ventilation Adapter	1	pcs
EVE Waterproof Connector Cap	1	pcs
Flexible Adapter	1	pcs
Carrying Case	1	pcs
Operation Manual	1	pcs
Maintenance Manual	1	pcs
Video Colonoscope		
Specifications :		
Viewing direction : Forward		
Observation range : 3"100 mm		
Field of view ; 140 derajat		
Distal end diameter : 12.8 mm		
Flexible portion diameter : 12,8 mm		
Bending capability: Up / Down 180/180 derajat		
Right / Left : 160/160 derajat		
Forceps channel diameter : 3,8 mm		
Working length : 1,690 mm		
Total Length ; 1,990 mm		
Standard Accessories:		
Biopsy Forceps	1	Pcs
Channel Cleaning brush	1	pcs
Forceps Valve Rubber (FOV-DV1)	1	pack
Washing adapter (CA-300)	1	set
Silicone Oil	1	Btl
Lens Cleaner	1	btl
S Connector Cap	1	pcs
Ventilation Adapter	1	pcs
EVE Waterproof Connector Cap	1	pcs
Flexible Adapter	1	pcs
Carrying Case	1	pcs
Operation Manual	1	pcs
Maintenance Manual	1	pcs
LCD Monitor		
Picture Performance		
LCD panel : a-Si TFT Active Matrix		
Picture size		
334 × 200, 390 mm (W/H, Diagonal)		
(13 1/4 × 7 7/8, 15 3/8 inches)		
Resolution : 1280 × 768 dots (WXGA)		
Viewing angle : Viewing angle 88°/ 88°/ 88°/ 88° (typical)		
Scan : Normal 0%, Over 5%		
Aspect 15 : 9		

Display color : 16770000
 Input/output connectors
 Input
 LINE A input connectors
 Y/C input : Mini DIN 4-pin (1)
 VIDEO input : BNC (1), 1 Vp-p ±3 dB, negative synchronization
 AUDIO input : Phono jack (1), -5 dBu 47 kilo ohms or higher
 RGB/COMPONENT input connectors : BNC
 RGB input : 0.7 Vp-p ±3 dB, (Sync On Green, 0.3 Vp-p negative sync.
 Component input : 0.7 Vp-p ±3 dB, (Sync on Y, 0.3 Vp-p negative sync
 AUDIO input : Phono jack (1), -5 dBu 47 kilo ohms or higher
 OPTION IN connector : D-sub 9-pin (1), female
 OPTION AUDIO IN connector : Phono jack (1), -5 dBu 47 kilo ohms or higher
 External synchronized input : BNC (1), 0.3 to 4 Vp-p negative polarity binary connector
 HDMI IN connector : HDMI
 PARALLEL REMOTE input connector
 Parallel remote : Modular connector 8-pin (1)
 Output
 LINE A output connectors
 Y/C output :
 Mini DIN 4-pin (1), Loop-through, with 75 ohms automatic terminal function
 VIDEO output
 BNC (1), Loop-through, with 75 ohms automatic terminal function
 AUDIO output : Phono Jack ,Loop Through
 RGB/COMPONENT output connectors
 RGB/Component output
 BNC (3), Loop-through, with 75 ohms automatic terminal function
 AUDIO output : Phono Jack ,Loop Through
 External synchronized output : BNC (1), Loop-through, with 75 ohms automatic connector : terminal Function
 Built-in speaker output mono

General
 Power : AC 100 V to 240 V, 50/60 Hz
 Power consumption : Maximum: approx. 40 W, 0.6 A to 0.4 A
 Dimensions (w/h/d)
 Approx. 372 × 336 × 264 mm (14 3/4 × 13 1/4 × 10 1/2 inches) (not including the projection parts)
 Mass : Approx. 6.2 kg (13 lb 11 oz)
 Temperature : 0 °C to 35 °C (32 °F to 95 °F)
 Recommended temperature : 20 °C to 30 °C (68 °F to 86 °F)
 Humidity : 30 % to 85 % (no condensation)
 Pressure : 700 hPa to 1060 hPa
 Storage and transport conditions
 Temperature : 0 °C to 35 °C (32 °F to 95 °F)
 Humidity : 0 % to 90 %
 Pressure : 700 hPa to 1060 hPa

Software include:
 Recording Module: Photo
 Archiving Module
 Reporting Module
 Display and Photo Editing suite
 CD Migrator

hardware include:
 1 Grabber Card, 1 S-Video cables, 1 Composite video cables,
 1 Dongle key with Software CD, 1 Foot pedal and connecting cables.

Air Leakage Tester
 Pressure setting : Manual
 Normal Pressure : 18,5 - 22,5 kPa
 Max Pressure : 40 kPa

Water Tank : 250 ml

Portable SuctionUnit

	<p>Specifications: Pump : Diaphragm Electric Power : AC mains 50 / 60 Hz Motor : single - headed, single phase, induction motor, 20 W Max Vacuum Pressure : '-73.3 kPa and / or over (-55.0 cmHg and / or over) Max Vacuum Capacity : 10 L/ min and / or over at air (pump ability) Suction Bottle Capacity : min 1500 mL</p> <p>UPS Input 2000 VA 100VAC, 110VAC, 120VAC, 220VAC, 230VAC 240VAC, ±25% 50Hz/ 60Hz±1%±2%±3% (Selectable) Output Automatically increase output voltage 10% above input voltage of Nominal 100VAC, 110VAC, 120VAC, 220VAC, 230VAC 240VAC, ±25% 50Hz/ 60Hz±0.5% 4ms - 8ms (typical) Socket ; NEMA 5-15R OR iec 4 Battery : SLA MF 48 VDC Protection 40 Joules, Over 2ms (110VAC); 80 Joules, Over 2ms Fuse for overload & short circuit protection UPS Automatic Switch for city power & Battery UPS Automatic Shutdown if Overload over 110% of Nominal at 60 sec and 130% at 5 sec. UPS output Cut off Immediately and input fuse protection Alarm Slow Beeping Sound (per 4 sec) Alarm Reset function Rapid Beeping Sound (per 1sec) Continue Beeping Sound Equipment Modem/Network Interface Green Mode Environment <5000 meter 0°C ~ 50°C 0% ~ 90% (Non Condensing) <40dB (1 Meter from Surface)</p> <p>Local Endoscope Trolley Specification : Dimension : 510 x 610 x 1400 mm Weight : 78 Kg Material : steanlees</p> <p>Local Endoscope keeper Water Jet Power supply : 120V/230V Power cunsumption rated : 0.20A/0.12A Fuse : T500mA/250Vx2 Aperation method : Turn on/off a foot switch Flow rate adjustment : Unstepped continuously variable Dimensions (WXHxD) : 240X215X315mm(with standard accessories) Mass : 2.9kg</p> <p>Accessories upper Gastrointestinal Endoscopes Grasping Forceps Aligator Jaw for Gastroscopy Basket Complete with handle</p> <p>Accessories Colonoscope Grasping Forceps Aligator Jaw for Colonoscopy Basket for Colon Grasping Forceps Three Prong Complete with handle Six shooter Ligature rings</p>		
51	ICU BRAIN MONITOR SYSTEM for NEONATES	1	set

Spesifikasi

Isolated Power Supply External power supply
Max output: 80W Input 100-240V ~47-63Hz
17" Panel PC
Operating Environment (in use)
Temperature 0-40°C;
Relative Humidity 10-95% @45°C non-condensing

Bipolar Inputs

Number of Inputs All odd channels: 44 inputs can be configured as Bipolar AC in pairs of two through software
Maximum Input Range ± 5 mV AC
Bandwidth 0.16 – 500 Hz AC
ADC Resolution 0.153 μ V AC

Auxiliary Inputs

4 Hi-level, non-isolated inputs (AI-1, AI-2, AI-3, AI-4) for connection of external devices (e.g. SpO2, CO2 monitors, etc.)
Analog/Digital Converter 16 bits
Maximum Input Range ± 2.5 V
ADC Resolution 76.3 μ V
Bandwidth DC – 500 Hz

EEG Display

Sec/Page 2, 4, 5, 6, 10, 15, 20, 30, 60, 120, 240, 300, 600, 1200
mm/Sec 6, 8, 10, 15, 30, 60, 120, 240

Panel Computer

CPU PIV 1.4 GHz processor
Operating System Windows XP
1 VGA port
Network (LAN) 2--1GB Ethernet interface
Display 17" Touchscreen color LCD
Resolution 1024 x 768

Amplifiers (Acquisition Only)

Analog/Digital Converter 22 bit (16 stored)
ADC Resolution Voltage = 0.153 μ V
Channels (Inputs) 44 channels
DC Offset Tolerance ± 220 mV; ± 600 mV C64OR, C64ORSSU
Maximum Input Range ± 5 mV
Bandwidth 0.16-500 Hz; 1.6-500 Hz C64OR, C64ORSSU
Noise $\leq 2\mu$ V pk-pk @ 0.16 - 70Hz
Input Impedance >100 M Ω
CMRR at Patient Inputs > 110 dB @ 0.16 – 70 Hz with active patient ground connected
NOTE: The following are under software control:
Anti-aliasing Filter Cut-off Frequencies 33, 67, 134 and 268 Hz
Amplifier Sample Rate : 128, 256, 512 and 1024 (Software sub-sampling for individual channels)
Sensitivity 10, 20, 30, 50, 70, 100, 150, 200, 300, 500, 700, 1000, 2000, 5000 μ V/cm
Sensitivity 1, 2, 3, 5, 7, 10, 15, 20, 30, 50, 70, 100, 200, 500 μ V/mm
High Filters Off, 10, 15, 25, 30, 35, 40, 50, 60, 70, 100, 150, 200, 300, 500, 1000, 1500 Hz
Low Filters Off, 0.16, 0.3, 0.5, 1, 1.6, 2, 3, 5 Hz
Low Filters Off, 0.2, 0.33, 0.5, 0.625, 1, 2, 3.3, 6.2 seconds
Notch Filter Off, 50/60 Hz

Amplifier

Analog/Digital Converter 16 bits
ADC Resolution Voltage = 0.153 μ V
DC Offset Tolerance ± 900 mV
Channels (Inputs) 32 EEG (9 configurable as bipolar AC); 12 non-isolated DC inputs (± 5 V, BW = 100Hz)
Maximum Input Range ± 5 mV
Bandwidth 0.053 - 500 Hz
Noise $< 1.5\mu$ V pk-pk @ 0.1 - 100 Hz except channels 31, 32 and OR channels 95% samples $< 2\mu$ V p-p (0.1 - 100 Hz)
Input Impedance > 100 M Ω (common mode)
CMRR at Patient Inputs > 115 dB @ 50 – 60 Hz, with active patient ground connected except channels 31, 32 and OR channels > 100 dB @ 50-60 Hz with RLD
Channel Crosstalk < -40 dB

	<p>Amplifier Sample Rate (under software control) 125, 250, 500, 1000, 2000</p> <p>Calibration Square wave, 1, 5, 10, 20 sec period, 10, 50, 100, 1000 μV amplitude</p> <p>Input Bias Current < 5 nA</p> <p>Anti-Aliasing Filter Cut-off frequency 500 Hz</p> <p>Differential input impedance 40 MΩ</p> <p>Interface to Amplifier Ethernet</p> <p>Channel Hardware Gain 410</p> <p>Deblock Yes</p> <p>Integrated SpO2</p> <p>Channels (DC Inputs) 12 non-isolated</p> <ul style="list-style-type: none"> - Analog/Digital Converter 16 bits - Maximum Input Range \pm 5V - ADC Resolution 153 μV - Bandwidth DC – 120 Hz <p>Additional Ports</p> <ul style="list-style-type: none"> - (2) RS232 Serial Ports - Auxiliary I/O - Panasonic Camera Control port on amplifier - Isolated SpO2 - Isolated patient event button <p>Headbox</p>		
	<p>Polygraphic Inputs</p> <p>Number of Inputs 4 (sub-set of available 36)</p> <p>Maximum Input Range User-selectable: \pm 128 mV or \pm 1V</p> <p>Bandwidth DC – 1500 Hz</p> <p>ADC Resolution At \pm 128mV = 4 μV, At \pm 1V = 32 μV</p>		
	<p>Network</p> <p>10/100/1000 Mb Ethernet (standard)</p>		
52	<p>Neonate & Pediatric Ventilator with High Frequency Oscillation specification :</p> <p>Operational Characteristics :</p> <p>Bias Flow : 0 - 40 LPM</p> <p>Mean Pressure Adjust : 3 - 45 cmH2O</p> <p>Max Mean Pressure Limit : 10 - 45 cmH2O adjustable</p> <p>Oscillatory Pressure (P) : > 90 cmH2O max amplitude of</p> <p>: proximal airway pressure</p> <p>Frequency : 3 - 15 Hz</p> <p>% Inspiratory Time : 30 - 50%</p> <p>Pressure Monitor : Mean and oscillatory Pressure</p> <p>Piston Centering Adjust : Applies electrical counterforce to piston</p> <p>: coil to maintain piston centering</p> <p>Pressure Measurement :</p> <p>Range : \pm 130 cmH2O</p> <p>Accuracy : \pm 2% of reading or</p> <p>: \pm 2 cmH2O, whichever is greater</p> <p>Indicators :</p> <p>Mean airway pressure</p> <p>Oscillatory amplitude</p> <p>% Inspiratory Time</p> <p>Frequency (Hz)</p> <p>Piston Position and Displacement</p> <p>Bias Flow</p> <p>Alarms :</p> <p>Safety (Dump Valve Opens)</p> <p>Paw > 50 cmH₂O</p> <p>Paw < 20%</p> <p>Warning</p> <p>Above "Set Max Paw"</p> <p>Below "Set Min Paw"</p> <p>Power Failure</p> <p>Oscillator Stopped</p> <p>Caution</p> <p>Oscillator Overheated</p> <p>Battery Low</p>	1	set

	Source Gas Low		
	Pneumatic Connections :		
	Inlet from Air/O ₂ Blender : DISS O ₂ fitting, 40-60 psig		
	: 40 LPM max consumption		
	Air Cooling Inlet : DISS Air Fitting, 40-60 psig,		
	: 15 LPM max consumption		
	Electrical :		
	Voltage : 105-130 VAC, 60 Hz		
	: 198-242 VAC, 50 Hz		
	Power : 800 Watts (maximum)		
	Leakage Current : < 100 m		
	Scope Delivery :		
	Accessories included :		
	Circuit Arm Support	1	Pcs
	Cradle	1	Pcs
	Thumb Screw	1	Pcs
	Oxygen Hose Assembly	1	Pcs
	Air Hose Assembly	1	Pcs
	Mounting Bracket F&P 850	1	Pcs
	Blender, Gas Mixing Assembly	1	Pcs
	Air Tee / Hose Assembly	1	Pcs
	Temperature Probe	1	Pcs
	Heated wire adapter	1	Pcs
	Humidifier HR 850 F & P	1	Pcs
	Chamber	1	Pcs
	Test Lung	1	Pcs
	Operating Manual	1	Pcs
	Disposable ship kit included		
	Flexibble Circuit F&P 850	10	pcs
	Connecting Tube Blue	10	pcs
	Connecting Tube Green	10	pcs
	Connecting Tube Red	10	pcs
	Bellow water trap	10	pcs
	Cap/Diaphragm	10	pcs
53	<p>INFANT FLOW SIPAP COMPREHENSIVE</p> <p>Spesifikasi :</p> <p>Simple Touch screen Operation facilitating ease of use</p> <p>Display of Pressure/ Time Graphics and alarm setting</p> <p>Clear presentation of data patient</p> <p>Improved patient triggering</p> <p>Integrated Power supply</p> <p>Up to 2 hours backup battery Power</p> <p>MODES</p> <p>NCPAP</p> <p>Biphasic</p> <p>Biphasic tr</p> <p>CONTROLS</p> <p>NCPAP : 0 - 15 L/min</p> <p>Pres Low Flow Meter</p> <p>Press High Flow meter : 0 – 5 L/min</p> <p>%O₂ : 21 – 100%</p> <p>Inspiratory Time : 0.1 – 3.0 sec</p> <p>Rate : 1 – 120 bpm , 1 – 54 bpm</p> <p>Back up rate : 1 - 80 bpm</p> <p>Apnea time : 10 – 30 sec</p> <p>MONITORED PARAMETERS</p> <p>NCPAP : 0 - 15 cmH₂O</p> <p>MAP : 0 – 15 cmH₂O</p> <p>PIP : 0 – 15 cmH₂O</p> <p>PEEP : 0 – 15 cmH₂O</p> <p>%O₂ : 21 – 100 %</p> <p>Power supply</p> <p>101 - 230 VAC : consumption 50 VA maximum</p> <p>12 VDC (sealed lead acid Battery) -</p> <p>2 hours life with full charge</p> <p>Dimension / weight (driver only)</p> <p>Dimensions : 26 cm x 38 cm x 23.5 cm</p>	1	set

	Weight : 8.8 Kg		
54	<p>Continuous Rapid Tissue Processor</p> <p>Specification :</p> <p>Throughput : Up to 50 specimens per hour</p> <p>Dimension : approx. 85 x 71 x 163 cm (WxDxH)</p> <p>Power : AC 220 ± 10% 50/60 Hz, 20 Amp</p> <p>Weight : approx. 280 kg</p> <p>Retorts</p> <p>Load Station : 1 station</p> <p>Microwave station :1 retorts</p> <p>Vacuum station :2 retorts</p> <p>Processing time : 80 (standard) or 160 (extended) minutes</p> <p>Capacity</p> <p>Continuous loading :Up to 40 cassettes every 40 minutes</p> <p>Unloading capacity :Up to 40 cassettes</p> <p>Processing time :approx. 80 minutes (standard) or 160 minutes (extended)</p> <p>Display : approx. 800 x 600 pixel color & touch screen LCD display</p> <p>Temperature ranges</p> <p>Microwave stations :approx. 61 °C ± 2 °C</p> <p>Vacuum station :approx. 65 °C ± 2 °C</p> <p>Software :</p> <p>Process monitor screen</p> <p>Manual & auto start</p> <p>Reagent management system w/ counter for cassette or runs standard (1 hr) or extended (2 hrs) program</p> <p>Language : English, French, German, Italian, Spanish, Japanese</p> <p>Sound selection :7 alarm sounds & 7 “end of process” message</p> <p>Passwords :1 service, 4 administrators, 20 operator</p> <p>Robotic system :</p> <p>One robotic arm moving from station to station in the X – Y plane , with automatic opening and closing of the station lids</p> <p>Display size :approx. 26,7 (diagonal)</p> <p>Indicator light :Power on , auto start/ shutdown, system status</p> <p>Data interface : LAN connection, USB port, automatic & demand printouts, import/export to external PC</p> <p>Diagnostic function : Self diagnostic, error message & codes, error list & log PC Connection</p> <p>Complete with :Reagent set and Molecular Fixative</p>	1	set
55	<p>Automated Slide Stainer</p> <p>Specification :</p> <p>Throughput : Up to 660 Slides at the same time</p> <p>Dimension : approx. 125W x 71D x 63H cm</p> <p>Number of Reservoirs</p> <p>Start : 1 to 3 station</p> <p>Reagent : 31 to 51 reservoirs</p> <p>Drying : 0 to 2 stations</p> <p>Wash : 0 to 4 stations (8 programmable steps)</p> <p>Capacity</p> <p>Reagent Volume : 160, 260 and 680 mL</p> <p>Staining Protocols : 11 runs continuously loading and simultaneously running : 11 runs continuously loading and simultaneously running</p> <p>Basket : 10 or 20 slide basket</p> <p>Loading : Up to 60 Slides per run</p> <p>Temperature</p> <p>Drying station : approx. 30 – 65 °C</p> <p>Heating station : approx. 30 – 70 °C</p> <p>Software</p> <p>Staining solutions : 100 Solution names, pre-programmable</p> <p>Staining Protocols : 50 protocols, pre-programmable</p> <p>Pre-staining protocols : max. 40 steps</p> <p>Process time per step : max. 99h 59min 59sec</p> <p>Time Accuracy : Exact, Extended up to 20%, extended up to 50%, infinite</p> <p>Mixing Modes : ON (mixing), WO (enhanced wash), OFF (no mixing)</p> <p>Language : English, French, German, Italian, Spanish, Japanese,Portuguese, Spanish</p> <p>Alarm : Buzzer and key sound</p> <p>Password : 1 service, 4 Managers and 20 Users</p> <p>Display : Color touch screen (approx. 640 x 480)</p>	1	set

Bayonet Instruments		
YASARGIL MICRO SCISSBAYOCVD/BL 225MM	1	Pcs
YASARGIL MICRO SCISSORS STR185MM	1	Pcs
YASARGIL MICRO FORCEPS	1	Pcs
YASARGIL MICROFORM BAYO FRCPS1X2180MM	1	Pcs
YASARGIL NEEDLE HOLDERBAYOUP-CVD200MM	1	Pcs
Micro Suction		
MICRO SUCTION SETW/SPECIAL CUT-OFF ADAP	1	Pcs
SUCTION TUBE TAPERED TEARDROP 3FR 180MM	1	Pcs
Straight Instruments		
MICRO-NEEDLE HOLDER W/CATCH CVD 150MM	1	Pcs
MUELLER MICRO-FORCEPS 1.2MM TRI111MM	1	Pcs
MICRO-SCSRFLT-HDL/CROSS-SERSTR160MM	1	Pcs
RND BODY SUTURE FORCEPSSTRO.3MM150MM	1	Pcs
Dissector, Rasparatory, Nerve Hook		
KRAYENBUEHL NERV HKSHRTBALL-TIP184MM	1	Pcs
MICRO DISSECTOR UP-CVD 230MM	1	Pcs
MICRO RASPATORY RND-BLD LRG 229MM	1	Pcs
MICRO HOOK BLUNT230MM	1	Pcs
MICRO DISSECTOR STR230MM	1	Pcs
VASCULAR SPATULA230MM	1	Pcs
MICRO DISSECTORSMALL230MM	1	Pcs
MICRO SCOOP STR SHARP229MM	1	Pcs
MICRO SCOOP ANG SHARP 229MM	1	Pcs
MICRO RASPATORY RND-BLD SM229MM	1	Pcs
Scarpal Tunnel		
KERRISON 130DG-UP 3MM 180MM	2	Pcs
VOLKMANN BONE CURETTE #1 6.8MM 172MM	1	Pcs
VERBRUGGE-MUELLER RETRACTOR44MM	1	Pcs
KERRISON THIN-FT 130DG-UP 2MM 180MM	1	Pcs
SCALPEL HANDLE #3	1	Pcs
BAILEY RIB SPREADER/CONTRACTOR 150MM	1	Pcs
SEMB BONE-HOLDING FCPS8MMW/RCHT191MM	1	Pcs
AUFRICT RASP PUSH-CUT 9MM 217MM	1	Pcs
FOWLER TONSIL KNIFE215MM	1	Pcs
GRUENWALD FORCEPS BAYO SERR 200MM	1	Pcs
HEGAR UTERINE DILATOR 11+12MM 195MM	1	Pcs
BAKES BILE-DUCT DILATOR 3MM	2	Pcs
WEITLANER RETRACTOR 3X4T.SH.130MM	1	Pcs
WEITLANER RETR 3X4T.SHARP/DEEP130MM	1	Pcs
ADVANCE BASIC UNIT INSTRUMENTS		
Full HD Camera System		
3 CHIP FULL HD CAMERA WITH ZOOM	1	Unit
CCD (Inch):3 x 1/3"		
Camera Resolution;1920 x 1080 pixel		
Scan Mode;Progressive Scan 60 Hz		
Modes5 Presettings		
:3 User Settings		
Video Signal Outputs:DVI-D 1080p (60 Hz)		
:HD-SDI 1080i, 720p (60 Hz)		
:HD-RGB 1080i, 720p (60 Hz)		
:S-Video NTSC		
:Video (composite) NTSC		
Buttons on Camera Head :2 (6 functions)		
Shutter Speed:1/50 - 1/10 000 s		
Zoom coupler (w x h x d):Optical (18 - 45 mm) & digital 2x		
Colour Bars:Yes		
Dimensions Camera Head w/o		
Zoom coupler (w x h x d):40 x 53 x 75 mm		
Dimensions CCU (w x h x d):305 x 89 x 305 mm		
weight CCU :140 g		
Weight Camera Head w/o zoom		
Length Camera Cable:3 m		
On-screen Display:Yes		
Power Supply;100-240 V AC, 50-60Hz		
Maximum Power Consumption:45 VA		
IEC320 POWER PLUG AND CORD 1M	1	Pcs
Xenon Light Source 300 watt		

	FIBER OPTIC LIGHT CABLE 4.8MM 3.5M LONG	1	Unit
	IEC320 POWER PLUG AND CORD 1M	2	Pcs
	24" Full HD Flat Panel Display	1	Unit
	Panel Quality:with anti-reflection		
	Viewable Diagonal (Inches);24"		
	Resolution (Pixel):1920 x 1200 (Full-HD)		
	Viewing Angle:1780/1780		
	Aspect Ratio:'16 : 10		
	Contrast Ration':700 : 1		
	Supported Colour Systems:PAL, NTSC		
	Video signal inputs:DVI		
	:SDI/HD-SDI		
	:RGB/HD-RGB (4 x BNC or HD-15)		
	;S-VHS (DIN-4 and 2xBNC)		
	;Composite (BNC)		
	;VGA (HD-15)		
	Video Signal outputs: DVI (DVI-D)		
	SDI/HD-SDI (BNC)		
	RGB/HD-RGB (4 x BNC or HD-15)		
	S-VHS (DIN-4 and 2xBNC)		
	Composite (BNC)		
	Control inputs:RS-232 (DB-9)		
	Power input:24 V DC (low voltage)		
	FOOT F/15"&19" FLAT SCREEN MONITOR	1	Unit
	IEC320 POWER PLUG AND CORD 1M	2	Pcs
	Advance Trolley System		
	ENDOSCOPY TROLLEY Lokal	1	Unit
	Cleaning brush		
	STERILIT OIL SPRAY 300ML	1	Pcs
58	Athroscopy	1	set
	Spesifikasi :		
	True High Definition (HD) Camera Controller 1080 progresif	1	Pcs
	High Definition (HD) Camera Head (Autoclavable)	1	Pcs
	Features:		
	720p, 1080i, 1080p Selectable		
	Multiple digital outputs		
	Light source communication		
	Electronic zoom		
	Autoclavable Camera Head		
	prism mounting		
	Light up card edge receptable		
	Remote button Fuctions for Printer		
	DVI-I Cable, Remote Cable, Power Cable		
	Xenon Light Source 300 Watt	1	Pcs
	Features:		
	Bulb Indicator Window		
	Automatically adjust to optimal light intensity		
	Auto Bulb saver function		
	Stand by Mode		
	Homogenized Light distribution		
	Light Guide Locking Mechanism		
	OLED Window		
	Medical Grade 26" High Definition (HD) LCD Monitor	1	Pcs
	Features:		
	HD 1080p with 1920 X 1200 resolution		
	26" Wide HD LCD Monitor		
	Sealed front panel with a protective coating for improved durability		
	Lightyweight and modern design with a universal VESA mount		
	Wide-screen 16:10 aspect ratio		
	PIP functionality		
	Swivel 180 ⁰ , Tilt 15 ⁰		
	Medical Grade Monitor		
	Digital Color HDD DVD Recording	1	Pcs
	Video recording to upscale standard format signals up to 1080p		
	for High Definition Screens		
	Record video to either Hard Disc or DVD-R Dual Layer disc		
	Trolley Lokal	1	Pcs
	Power & Pump System		

All-in-One Power Console	1	Pcs
<i>Features:</i>		
One console operates all electric handpieces		
Wide application : Arthroscopy, Large Bone Orthopedics, Small Bone Orthopedics, Spine Surgery, ENT, Trauma, Neurosurgery, Oral/Maxillofacial Surgery		
The maximum rpm reaches to 12,000 rpm		
System provides optimum power, precision, and control		
Voice Command function		
Arthroscopy Shaver	1	Pcs
<i>Specification:</i>		
Bi-directional Blade Insertion		
Window Indexing		
Smooth Parylene Coated Cord		
Operating Speed		
500 - 12,000 rpm, F/R		
300 - 2,500 cpm, Single & Multi-turn Oscillate		
Torque : 35 in. oz. (nominal)		
Length : 6.1 in. (15.5 cm)		
Diameter : Approx. 1.125 in. tear drop (3.2cm)		
Weight : 17.8 oz. (505 g)		
Cord Length : 10 ft. (3.0m) Non- detachable		
Full-Radius Resector, Large Hub, 4.2mm (6 per box)	1	Pcs
Oval Bur, Large Hub, 4.0mm (6 per box)	1	Pcs
Great White Recipro Blade, 4.2mm (6 per box)	1	Pcs
Ablator 90 ⁰ , 3.2x150mm	1	Pcs
Pump System	1	Pcs
<i>Features:</i>		
Intuitive one-step / one-hand cassette loading		
Quick setup and priming		
High flow		
User Friendly Pump		
Can be used in Arthroscopy & Laparoscopy		
<i>Specification:</i>		
Flow maximum : 2000ml/min		
Set pressure : Maximum 150 mmHg		
Weight : 7 pounds		
Dimensions aprox: 16.5 cm(H) x 20.3 cm(D) x 19.7 cm(W)		
Voltage : 90-240 V		
Arthroscopy Tubing	10	Pcs
Remote Hand Control (Autoclavable)	1	Pcs
Arthroscope (Autoclavable)		
HD Quick Latch 4mm Scopes 30 ⁰ (Autoclavable)	1	Pcs
HD Quick Latch 4mm Scopes 70 ⁰ (Autoclavable)	1	Pcs
5.5mm Arthroscopy Sheath w/Double Stopcock (Autoclavable)	1	Pcs
5mm Universal Light Guide Blue, 10', Liquid (Autoclavable)	1	Pcs
Scope fitting (Autoclavable)	1	Pcs
Tray for Video Products (Autoclavable)	1	Pcs
Manual Instruments for Arthroscopy		
Thorne Attachment	1	Pcs
Arthroscopy Probe	1	Pcs
Microfracture Awl, 30 ⁰	1	Pcs
Micro Scissors 3.4mm Straight	1	Pcs
Aggressor Forceps 3.4mm Straight	1	Pcs
Linear Wide Bite Punch 15 ⁰ Up	1	Pcs
Linear Alligator Grasper 3.3mm, 2.7mm Tip	1	Pcs
90 ⁰ Punch Forcep 3.4mm, Right	1	Pcs
90 ⁰ Punch Forcep 3.4mm, Left	1	Pcs
Manual Instrument Case Basic Set	1	Pcs
Knee ACL		
Femor Guide 5mm Offset	1	Pcs
Femor Guide 6mm Offset	1	Pcs
Anatomic Femoral Footprint Guide, 6.0mm	1	Pcs
Anatomic Femoral Footprint Guide, 7.0mm	1	Pcs
Anatomic Femoral Footprint Guide, 8.0mm	1	Pcs
Pinn ACL Cruciate guide	1	Pcs
Graft Preparation Table	1	Pcs
Preparation Table Slide Lock	2	Pcs

Preparation Table Graft Clamp	2	Pcs
Preparation Table Suture Holder	1	Pcs
Preparation Table Tension Clamp	1	Pcs
Preparation Table BTB Holder	1	Pcs
Preparation Table Drill Guide	1	Pcs
Preparation Table Scraping Board	1	Pcs
Autoclavable Case for ACL	1	Pcs
Graft Sizing Block	1	Pcs
6.0mm Mono-Fluted Drill Bit	1	Pcs
7.0mm Mono-Fluted Drill Bit	1	Pcs
8.0mm Mono-Fluted Drill Bit	1	Pcs
9.0mm Mono-Fluted Drill Bit	1	Pcs
4.0mm 15Deg Convex Rasp	1	Pcs
Cupped currette, 4mm	1	Pcs
Graft Passing Guide Pin	1	Pcs
9" High-Strength Guide Pin, 2.4mm	5	Pcs
14" High-Strength Guide Pin, 2.4mm	5	Pcs
Tendon Stripper	1	Pcs
Cannulated Bit 5mm	1	Pcs
Graft Holder	1	Pcs
El Depth Probe	1	Pcs
Universal Driver, Modular	1	Pcs
Ratcheing Handle	1	Pcs
Bioscrew Guidewire	5	Pcs
PCL-Pin Sleeve	1	Pcs
PCL Guide Arm	1	Pcs
PCL Curved Rasp	1	Pcs
PCL Curved Currette, 4mm	1	Pcs
ACL Reconstruction Tray	1	Pcs
Implant		
Interference Screw 7mm*25mm	1	Pcs
Interference Screw 8mm*25mm	1	Pcs
Interference Screw 9mm*25mm	1	Pcs
Interference Screw 8mm*35mm	1	Pcs
Interference Screw 9mm*35mm	1	Pcs
15mm Continuous Loop Implant	1	Pcs
20mm Continuous Loop Implant	1	Pcs
25mm Continuous Loop Implant	1	Pcs
30mm Continuous Loop Implant	1	Pcs
Power Tool		
Single Trigger Modular Handpiece	1	Pcs
Universal Cable (Handpiece cord)	1	Pcs
1/4" Jacobs Chuck Attacment	1	Pcs
Shoulder Arthroscopy		
Manual Instruments for Shoulder Arthroscopy (Autoclavable)		
Katana suture cutter	1	Pcs
Crochet Hook	1	Pcs
Knot Pusher	1	Pcs
Switching Stick 3.0mm O.D. x 14"L	1	Pcs
Liberator Knife II	1	Pcs
Suture Retrieval Forceps, 3.4mm	1	Pcs
Suture Passing System (Autoclavable)		
Spectrum II Handle	1	Pcs
Spectrum II Sterilization Tray	1	Pcs
Suture Hook 45 Deg Right	1	Pcs
Suture Hook 45 Deg Left	1	Pcs
Suture Hook 60 Deg Right	1	Pcs
Suture Hook 60 Deg Left	1	Pcs
Suture Hook 90 Deg Right	1	Pcs
Suture Hook 90 Deg Left	1	Pcs
Suture Hook CorkScrew Right	1	Pcs
Suture Hook CorkScrew Left	1	Pcs
Suture Hook Straight	1	Pcs
Suture Hook Crescent Small, 3.0 x 15.0 mm	1	Pcs
Suture Hook Crescent Medium, 4.0 x 20.0 mm	1	Pcs
Suture Hook Crescent Large, 6.0 x 25.0 mm	1	Pcs
Shuttle-Relay-Suture Passer (Sterile)	10	Pcs
Cannula & Shuttle Relay		

	Super Shuttle relay	8	Pcs
	Dry-Doc cannula, 8.0x85mm	6	Pcs
	Disposable Cannula set, 5.5x70mm	10	Pcs
	Shoulder Traction		
	Beachchair Shoudler Position System	1	Pcs
	Head Pad	1	Pcs
	Back Pad	1	Pcs
	Patient Restrain Set	1	Pcs
	Forehead Comfort Pad	30	Pcs
	Positioning Wedges	1	Pcs
	Shoulder Holder	1	Pcs
	Bio Anchor for Bankart / SLAP Repair		
	Bio Mini, Prethreaded with #2 Hi-Fi	5	Pcs
	Bio Instability Drill Guide, Fishmouth	1	Pcs
	Blunt Obturator	1	Pcs
	Bio Instability Bone Punch, 2.1mm	1	Pcs
	Bio Instability Self-Drilling Bone Tap, 2.4mm	1	Pcs
	Bio Instability Sterilization Tray	1	Pcs
	Bio Anchor for Rotator Cuff Repair		
	5.0mm Driver with Anchor	8	Pcs
	5.0mm Tap	1	Pcs
	PEEK Anchor for Rotator Cuff Repair		
	4.5mm FT-Anchor, 2 sutures	5	Pcs
	Universal FT Punch	1	Pcs
	Knotless Anchor for Rotator Cuff Repair		
	4.5mm Knotless Anchor	5	Pcs
	PopLok Punch 4.5mm	1	Pcs
59	OPERATIVE LAPAROSCOPY FOR SURGERY consists of :		
	Veress Needle / Trocars & Reducer VERESS Pneumoperitoneum Needle with spring-loaded blunt stylet, LUER-lock, length 10 cm	1	pcs
	Trocar, size 6 mm, consisting of: - Trocar only, with pyramidal tip - Cannula without valve, with insufflation stopcock, length 10.5 cm - Multifunctional Valve	2	pcs
	Trocar, size 11 mm, color code: green, consisting of: - Trocar only, with pyramidal tip - Cannula without valve, with insufflation stop cock, length 10.5 cm - Multifunctional Valve	2	pcs
	Reducer, 11/5 mm	1	pcs
	Reduction Sleeve, 11/5 mm	1	pcs
	Reduction Sleeve	1	pcs
	Telescope 0° - 120° Telescope, ø 10 mm, length 32 cm, 0° - 120°, twisting controller to select the desired view of direction, fiber optic light transmission incorporated. Color code: gold		
	Dissecting Forceps & Grasping KELLY Dissecting and Grasping Forcep, rotating, size 5 mm, length 36 cm, long, double action jaws	1	pcs
	REDDICK-OLSEN Dissecting and Grasping Forceps, rotating, size 5 mm, length 36 cm, heavy, double action jaws	1	pcs
	Dissecting and Grasping Forceps, rotating, size 5 mm, length 36 cm, atraumatic, double action jaws	1	pcs
	Claw Grasping Forceps rotating, size 5 mm, length 36 cm, 2 x 3 teeth, single action jaws	1	pcs
	MANHES Grasping Forceps, jaws with multiple teeth rotating, size 5 mm, length 36 cm, single action jaws	1	pcs
	Claw Forceps, rotating, size 10 mm, length 36 cm, 2 x 3 teeth, single action jaws	1	pcs
	REDDICK-OLSEN Dissecting and Grasping Forceps, rotating, size 5 mm, length 36 cm, double action jaws	1	pcs
	Unipolar High Frequency Cord, 300 cm	1	pcs
	Scissors		
	METZENBAUM Scissors, rotating, size 5 mm, lenth 36 cm, blades curved,	1	pcs

double action jaws, length of blades 12 mm		
Bipolar Grasping Forceps		
Bipolar Grasping Forceps, size 5 mm, length 33 cm, robust	1	pcs
Bipolar High Frequency Cord, 300 cm	1	pcs
Dissecting Cannula		
Coagulating and Dissecting Electrode, spatula-shaped, blunt with connector pin for unipolar coagulation, size 5 mm, working length 36 cm	1	pcs
Coagulating and Dissecting Electrode, L-shaped, with connector pin for unipolar coagulation, size 5 mm, working length 36 cm	1	pcs
Suture & Ligature		
Needle Holder "PARROT-JAW®"	1	pcs
Assistant Needle Holder "FLAMINGO-JAW®"	1	pcs
Knot Tier, 5 mm, 36 cm	1	pcs
Clip-Applicator	1	pcs
Titanium Clips, 16x 10	1	pack
Cleaning Accessories		
Cleaning Brush, length 35 cm - 50 cm, O.D. 2.5 - 11 mm	1	set
Cleaning Brush, 16 mm, 58 cm	1	pcs
Special Lubricant for Stopcocks	1	pcs
Cleaning agent, tube 5 gr.	1	pcs
Instrument Oil, 50 ml	1	pcs
INSUFLATOR Special Features : High degree of patient safety Easy to use Simultaneous display of set values and actual values facilitate monitoring of the insufflation process Touch keys for precise preselection of set value Optical and acoustic alarm signals in the event of patient overpressure Fully automatic, electronically controlled gas refill (e.g. in case of gas loss when changing instruments) SECUVENT Safety System: Constant monitoring of intraabdominal pressure Very high gas flow capacity of up to 30 l/min. Especially suitable for providing a high gas flow when using smoke generating techniques Special initialization mode for establishing pneumoperitoneum at a preset insufflation pressure of 15 mmHg and a gas flow rate of 1 l/min with warning function A high-capacity trocar (Hicap) is a recommended option OPTITHERM Heating element: For preheating gas to body temperature to prevent peritoneum from cooling down SCB model with connection to the Communication Bus Operating mode : - Initialization Mode - Operating Mode - Initialization Mode : 1 - Operating Mode : 0-30 Pressure (mmHg) : - Initialization Mode : 15 (1995 Pa) - Operating Mode : 0-30 (1330-3990 Pa) Gas : CO2 Measuring/Control System : electronic Parameter Display : - Insufflation Pressure - Intraabdominal Press, (mmHg): 0-50 (6650 Pa) - Gas Flow (l/min.): 0-30 - Gas Consumption (l): 0-999	1	Unit
ELECTRONIC INSUFLATOR with High Flow Insufflation 30 l/min. and Gas Preheating (37°C)	1	pcs
CO2 High Pressure Hose, American/Germ.	1	pcs
CO2 Bottle, empty, German connection	1	pcs
SUCTION IRRIGATION Special Features: Suction and Irrigation System for use in laparoscopy and gynecology Irrigation function is performed by a roller pump Maximum parameters for LAP and HYS mode are automatically fixed by the choice of the tubing set		

<p>Precise presetting of suction and irrigation parameters via touch keys Adjacent display scales for set values and actual value ensure safe monitoring of suction and irrigation levels SCB model with connections to the Communication Bus - HYST 0-200 (26.6 kPa) - LAP 0-400 (53.2 kPa) - HYST 0-500 - LAP 0-1000 regulated : HYST 0(-) 0.5 (-50 kPa) LAP 0(-) 0.8 (-80 kPa) Suction & Irrigation Unit for Laparoscopy & Hysteroscopy operating voltage: 100 -240 VAC, 50/60 Hz complete with VACUsafe Pack Suction Silicone Tubing Set, suction One-pedal-Footswitch Bacterial Filter, pack of 10 pcs. Suction and Irrigation Tube, 5 mm</p>	<p>1</p>	<p>unit</p>
<p>CAMERA SYSTEM The benefits of High Definition Technology (HD) for medical applications are : Up to 6 times higher input resolution of the camera delivers more detail and depth of focus Using 16:9 format during image acquisition enlarges the field of vision and supports ergonomic viewing The brilliance of color enables optimal diagnosis Lateral view is enhanced by 32% when the endoscopes is withdraw slightly, providing the same image enhancement as a standard system. Any vertical information loss is restored and the lens remains clean Signal to noise ratio : 3 chip HD camera system > 60 db AGC : mikroprocessor controled Video ouput : - Composite signal to BNC socket - S-Video signal to 4-pin Mini DIN socket (2x) - RGB signal to D-Sub socket - SDI signal to BNC socket - HD signal to DVI-D socket (2x) Input : Keyboard for title generator,5 pin DIN socket Control output/input : - 6-pin Mini DIN socket (2x) - 3.5 mm stereo jack plug (ACC 1, ACC 2) - Serial port at RJ-11 - USB port</p>		
<p>HD hub with ICM/SDI Camera-Control Unit (CCU), to use with HD- and standard 1- and 3-Chip Camera Heads, max. Resolution 1920 x 1080 Pixel, with integrated ICM (Image Capture Module), SDI-Module, integrated Communication Bus SCB and integrated Image Processing Modul, Color System PAL/NTSC, Power Supply: 100-240 VAC, 50/60 Hz</p>	<p>1</p>	<p>unit</p>
<p>Camera head, 3-Chip HD Camera Head max. resolution 1920 x 1080 pixel Progressive Scan, 50Hz/60Hz with 2 freely programmable Camera Head buttons, with integrated Parfocal-Zoom focal length f = 15 - 31mm (2x) For use with color system PAL and NTSC Image sensor : 3x 1/3" CCD chip Min. sensitivity : F 1.4/1.17 Lux</p>	<p>1</p>	<p>pcs</p>
<p>MONITOR 26" HD Monitor, desktop with pedestal, Medical Grade, Color systems PAL/NTSC, max. screen resolution 1920 x 1200, image format 16:10, power supply 100 - 240 VAC, 50/60 Hz Brightness : 500 cd/m2 Max. viewing angle : 178° vertical Pixel distance : 0.287 mm Reaction Time : 5-12 ms Contrast ratio : 800:1 Adaption : 100 mm VESA Rated power : 115 Watt</p>	<p>1</p>	<p>unit</p>

	<p>Operation conditions : 0-40°C Storage : -20-60°C Rel. humidity : 20-85%, non-considering</p>		
	<p>LIGHT SOURCE & FIBER OPTIC Cold Light Fountain 300 Watt, Power Supply: 100-125/220-240 VAC, 50/60 Hz</p>	1	unit
	<p>Fiber Optic Light Cable, size 4.8 mm, length 250 cm, heat-resistant XENON 15 V, 300 Watt, 6000 K</p>	1	pcs
	<p>TROLLEY Endoscopic Trolley (Mobile Cart) 4 antistatic casters, 2 equipped with locking brakes, 5 fixed shelves, 6 grounding plugs, 4 handles, 1 electrical supply terminal strip with 6 plugs, 1 camera mount, 2 CO₂ Bottle Holders Dimensions: Videocart: 620 mm x 1100 mm x 420 mm (w x h x d) Caster diameter: 120 mm</p>	1	set
60	<p>ULTRASOUND COUTERY For DIGESTIVE Specification :</p>	1	set
	<p>Power supply Voltage : 120/220-240 V AC Power fluctuation : within + 10% Frequency : 50/60 Hz Input current : 6 A (at 120 V AC), 3A (at 220-240 V AC)</p>		
	<p>Size Dimensions : 295 (W) x 132 (H) x 366 (D) mm Weight : 9 Kg Degree of protection : Type CF against electric shock of applied parts</p>		
	<p>Ultrasonic output Aplicable hand piece : Only Olympus T300 series hand pieces are applicable ON/OFF operation : Foot switch,Hand switch (optional) Output setting : the output level can be set by pressing the ultrasonic output setting switches on the front panel of the generator Frequency : 23-5 kHz/47 kHz Maximum output : 150 W (interval output); 100 W (continuous output)</p>		
	<p>Consisting Of :</p>		
	Foot switch	1	pc
	Power Cord	1	pc
	Tranduser	1	pc
	long Straight Scissors 5mm	1	pc
	long Curved scissors 5mm	1	pc
	Cleaning adapter	1	pc
	Torque Wrench	1	pc
	Brush	1	pc
61	<p>Choledoscopy Spesification :</p>	1	unit
	<p>Fiberscopes,cleaning brushes ,ETO-Cap,attachement,sealing caps and grasping forceps</p>		
	<p>Specification Field of view : 75° Direction of view : 0° Working length : 700mm</p>		
	<p>Optional :</p>		
	Attachment	1	pcs
	Valve , 10 pcs	1	pcs
	Grasping forceps	1	pcs
	Disposible spiral basket	1	pcs
	Rat Tooth Type (3Fr)	1	pcs
	Disposible three nail	1	pcs
	Halogen Light Source	1	unit
62	<p>Ultra sonografi 3 D Spesifikasi :</p>	1	set

Probes :

BiPlane Microconvex Probe (Transrectal)
Applications : Urology
Maximum Band Width (-20dB) : 1.5 – 4.5 MHz
Convex Probe (Trans Abdominal)
Applications : Abdomen, Urology
Probe Band Width : 1.5 – 4.0 MHz

Monitor

Minimal 17 inch TFT LCD
Adjustable Tilt/ Swivel
Digital Brightness / Contrast Adjustment

Console design

3 Active Probe Ports
Integrated HDD minimal 160GB
Integrated DVD R/W Drive

Operating Modes

B-Mode
Coded Harmonic Imaging
M-Mode
Color Doppler Mode
Power Doppler Imaging with directional map
PW Doppler With High PRF
M-Color Flow Mode

System Standard Features :

Digital beamformer
Minimal 12,000 System processing channel technology
Displayed Imaging depth : 2- 30 cm probe dependent
Minimum depth of field : 2 cm (zoom and probe dependent)
Maximum depth of field : 30 cm (probe dependent)
Continuous Dynamic Receive Focus/ aperture
Multi-frequency/ wideband technology
256 shades gray
Up to 197 dB Processing Dynamic Range
Adjustable field of View (FOV)
Image reverse : Right/ Left
Image rotation : 4 steps
Rotation : 0°, 90°, 180°, 270°
Hard Disk for image storage
Without compression:
Raw DICOM: > 14500 images
DICOM:
Image Only: > 16,000 images
1200 Frames (60 sec) CINE Memory (256MB)
Real-time Triplex Mode at any Depth and PRF
Automatic Optimization
Auto Tissue Optimization
Auto Spectrum Optimization
Auto Color Optimization
Harmonic Imaging
Speckle reduction imaging
Compound Resolution Imaging
Virtual Convex
Patient Information Database
Image Archive on Hard Drive and DVD
Easy Backup to Media for data security
Raw Data Processing and Analysis for post processing
Vascular Calcs
Cardiac Calcs
OB Calcs
Fetal Trending
Multi Gestational Calcs
Hip Dysplasia Calcs
Gynecological Calcs
Urological Calcs
Renal Calcs
Real-time Auto Doppler Calculations
On-board basic Reporting
Complete User Manual Available in Board Through Help (F1)

	<p>Panoramic View Feature to detect Blood Flow without Doppler (B Mode and Color) <i>Include:</i> B&W Printer Color Printer UPS 1 KVA True Online Basic User Manual Eksternal LCD 32" (include VGA Cable + Bracketed)</p>		
63	<p>Laparoscopy Simulator Spesification : Cutting-edge simulator technology provides multisensory feedback (visual, audio and tactile) delivering a highly accurate rendition of the look and feel of actual procedures. Learners literally 'get a feel' for laparoscopic techniques and procedures before they touch their first patient. Three comprehensive modules which are Running the bowel, Ob/gyn and Suturing and knot tying take learners from a hands-on introduction to basic laparoscopic techniques through more complex procedures and surgeries. Essential skills: Camera navigation, Peg transfer, Cutting, Clipping, Needle driving Procedural Skills: Adhesiolysis, Running the bowel (small bowel obstruction), Suturing and knot tying, Loop ligation Surgical Skills: Laparoscopic cholecystectomy, Bilateral tubal occlusion, Ectopic pregnancy, Salpingo oophorectomy Featuring: Realistic physiological responses and tool behaviour Accurate visual, audio and tactile force feedback responses Administrator-friendly course planning features A wide selection of cases covering basic to more complex scenarios (including management of complications) Comprehensive performance evaluation metrics Adjustable height of simulator cart</p>	1	set
64	<p>Universal Intens Pulsa Light with Nd YAG Spesification : Size : 44 cm x 50.5 cm x 47 cm Weight : 40 kg Electrical Requirement : Universal Power Supply Applications : Photorejuvenation, Vascular Lesions, Pigmented Lesions, Permanent Hair Reduction Spectrum : 515-1200 nm ExpertFilters :515,560, 590, 615, 640, 695nm Energy Density (Fluence) : 10-35 J/cm² Pulse Delay : 5-150 J/cm² Pulse Duration : 4-20 ms Pulse Characteristic : Multiple-Sequential Pulsing Repetition Rate : Up to 1 Hz Spot Sizes : 15 mm x 35 mm, 8 mm x 15 mm Cooling : Continous contact cooling</p>	1	set
	<p>ND YAG Electrical Requirement : Universal Power Supply Applications : leg veins,deeper vascular lesions,non ablative treatment of facial wrinkles Spectrum : 1064 nm Energy Density (Fluence) : 20-225 J/cm² Pulse Delay : 5-100 J/cm² Pulse Characteristic : Multiple-Sequential Pulsing Repetition Rate : Up to 1 Hz Spot Sizes :2 mm x 4 mm, 6 mm Cooling : Continous contact cooling</p>	1	set
65	<p>Automated Optical Aggregation Spesifikasi : Infrared for measuring PRP & PPP Teflon stirbar Automated control temperatur control , 37 derajat + 0,2 derajat celcius system data Komputerized , PIV,HDD,Monitor + Printer colour 0,25 ml sample tube</p>	1	set

	loading data curve past Print test colour display 4 curve,colour graph, include amplitude dan data slope include reagent ADP,Disposable stir bar,Cuvet,Stir bar		
66	SET CUNAM BRONCHOSCOPY & ESOPHAGOSCOPY Spesifikasi :		
	BRONCHOSCOPY FORCEPS Sheath Diameter 2 mm, working length 35 cm		
	Forceps, alligator grasping, for for hard foreign bodies, double-action jaws,sheath diameter 2 mm, working length 35 cm	1	pcs
	Forceps, pointed, serrated,for coins and flat foreign bodies, double-action jaws, sheath diameter 2 mm, working length 35 cm	1	pcs
	Forceps, for peanuts and soft foreign bodies, double-action jaws, width 3.3 mm, sheath diameter 2 mm, working length 35 cm	1	pcs
	Forceps, with round cupped cupped jaws, for biopsy, double-action jaws, cupped diameter 4 mm, sheath diameter 2 mm, working length 35 cm	1	pcs
	Forceps, with oval cupped jaws, fenestrated, for biopsy and foreign bodies, double-action jaws, width 4 mm, sheath diameter 2 mm, working length 35 cm	1	pcs
	Forceps, universal, for biopsy and foreign bodies, double-action jaws, width 3 mm, sheath diameter 2.0 mm, working length 35 cm	1	pcs
	Sheath Diameter 1.5 mm, working length 35 cm		
	Forceps, alligator grasping, for hard foreign bodies, double-action jaws,sheath diameter 1.5 mm, working length 35 cm	1	pcs
	Forceps, pointed, serrated,for coins and flat foreign bodies, double-action jaws, sheath diameter 1.5 mm, working length 35 cm	1	pcs
	Forceps, for peanuts and soft foreign bodies, double-action jaws, sheath diameter 1.5 mm, working length 35 cm	1	pcs
	Forceps, with round cupped cupped jaws, for biopsy, double-action jaws, cupped diameter 3 mm, sheath diameter 1.5 mm, working length 35 cm	1	pcs
	Forceps, universal, for biopsy and foreign bodies, double action jaws, sheath diameter: 1.5 mm, working length 35 cm	1	pcs
	ESOPHAGOSCOPY FORCEPS Sheath Diameter 2.5 mm, working length 60 cm		
	Forceps, alligator, for hard foreign bodies, double-action jaws, sheath diameter 2.5 mm, working length 60 cm	1	pcs
	Forceps, pointed, serrated, for coins and flat foreign bodies, double-action jaws, sheath diameter 2.5 mm working length 60 cm	1	pcs
	Forceps, for peanuts and soft foreign bodys, double-action jaws, width 7 mm sheath diameter 2.5 mm working length 60 cm	1	pcs
	Forceps, with round cupped jaws, for biopsy and foreign bodies, double-action jaws, cupped diameter 5 mm sheath diameter 2.5 mm working length 60 cm	1	pcs
	Forceps, universal, for biopsy and foreign bodies, double-action jaws, jaw width 4 mm sheath diameter 2.5 mm working length 60 cm	1	pcs
67	Anesthesi Machine With Ventilator Spesifikasi :	1	Unit
	Space saving compact design Sturdy yet lightweight construction for easy mobility Large writing table 2 Large storage drawers Spacious monitoring shelf Dual flow meters (2XN2O, 2XO2, 1XAir) Strong back bar for fitting of 2 vaporizers 2 Liter Autoclavable Absorber Hi Pressure Tubing (N2O, O2, Air)		
	The Ventilator Offers : Adult to neonatal settings Respiratory modes : IPPV, SIPPV, PCV, SIMV, CPAP, MANUAL Compliance Compensation I:E Ratio Electronic PEEP 10.4" high resolution color screen Easy to use operating system 2 hour battery backup Comprehensive alarms		
	Working Conditions :		

Gas Supply	: O2, N2O, AIR		
Rated Pressure	: '0.4 Mpa - 1MPa		
Power	: AC 110V - 220V 50 Hz - 60 Hz		
Gas Delivery (5 tube 2xO2, 2xN2O, 1 AIR)			
O2	: 0.1 LPM - 10 LPM		
N2O	: 0.1 LPM - 10 LPM		
AIR	: 0.1 LPM - 10 LPM		
N2O/O2 hypoxic guard leaving O2 concentration >25%			
Oxygen Flush 35 LPM - 75 LPM			
Vaporizer concentration 0.2% - 5%			
Low Oxygen alarm with N2O cutoff			
Operating Conditions :			
Ambient Temperature	: 15oC - 35oC		
Relative Humidity	< 80%		
Atmospheric Pressure	: 860hPa - 1060hPa		
Integrated Ventilator :			
Screen	: Color 10.4" color TFT		
Frequency	: Adult 4 - 30 BPM		
	: Child 20 60 60 BPM		
Integrated Ventilator (continue) :			
Frequency (SIMV, SIPPV)	: 4 - 12 BPM		
I :E Ratio	: 2:1 - 1:5		
PEEP	: Off 0.1 - 2 kPa		
Tidal Volume	: Adult 0.2 - 1.2L		
	: Child 0.0200.30L		
Max minute volume	> 18 LPM		
PCV Pressure	: Off 0.5 - 6 kPa		
Insp. Flow	: Adult 10 - 50 LPM		
	: Child 3 - 30 LPM		
Insp. Plateau	: Off 5 - 50% w/5% increments		
Insp. Trigger pressure	: -2.0 - 2.0 kPa		
On Screen monitoring of :			
Tidal Volume (Vt)			
Frequency (Freq)			
Minute Volume (MV)			
Gas Pressure (Peak)			
O2 Concentration			
Comprehensive Alarm for :			
Tidal Volume (no volume, upper limit, lower limit)			
Airway Peak Pressure (upper limit and lower limit)			
Oxygen Concentration (upper limit lower limit)			
Low O2 supply with automatic N2O cut - off			
Power failure			
Low Battery			
Accessories:			
Isoflurance Vaporizer		1	Unit
Servoflurance Voparizer		1	Unit
Flow sampling detector+flow sampling line		1	Pcs
Pressure sensor+sensor tube		1	Pcs
Breathing Bag(3 liter)		1	Pcs
Breathing circuit Adult		1	Pcs



UNIT LAYANAN PENGADAAN BARANG DAN JASA
UNIVERSITAS SRIWIJAYA

Jl. Palembang – Prabumulih Km. 32 (OI) Kode Pos 30662
 Telp. (0711) 580069, 580225, 580275, 580645, Fax. (0711) 580644

Lampiran Addendum Dokumen Pengadaan
 Nomor.4450/UN9.4.2/LK.01/2011
 Tanggal 18 Juli 2011

SPEKIFIKASI ADDENDUM

No	Nama Alat /Spesifikasi	Vol	Satuan
1	Folicle Aspiration Pump Spesifikasi : Dimension aprox(WxHx D):220x 110x310 (mm),Vacuum :-30 to -300mmHg weight: aprox 50kg power supply:50/60hz,115vac/230Vac(220-240Vac)	1	set
2	Stereo Zoom microscope Spesifikasi: Stereo Trinocular Microscope Transmitted and reflected LED Set Zoom Microscope Body Zoom drive : Horizontal knob system, Click stop for each zoom magnification: ON-OFF switching possible Zoom ratio : 7:1 (0.8x to 5.6) Zoom Magnification : 0.8, 1, 1.25, 1.6, 2, 2.5, 3.2, 4, 5, 5.6 Objective Mounting : Screw mounting into thread, Lead-free Observation Tube : Trinocular tube View inclination angle : 30° light path selection : 2 steps (Binocular 100%,Video & photo 80%/Binocular 20%) All observation tubes: Lead-free Interpupillary distance adjustable range 50 to 76 mm Stand Frame installation : Mounting diameter: 76 mm Focusing adjustment : Knob rotation tension adjustment, Focusing stroke: 120 mm Stage Plate : The dedicated glass plate in 100mm dia. Included Light source : Transmitted Illumination: LED; Reflected Illumination: LED; Average LED life span: 6000 hrs Objectives : Distortion Free Plan Apochromat 1x; NA 0.10, WD 81mm	1	set
3	Camera Digital + monitor spesifikasi : Imaging sensor Size : 1/1.8 inch color CCD Effective pixels : 2.01 megapixels Scanning mode : Progressive scan Color filter : RGB Bayer primary color filter Recording Range : 7.04 (H) x 5.28 (V) mm, 8.8 mm Maximum recorded : 1.92 million pixels Image display Resolution : WUXGA, WSXGA, WXGA, WSVVGA, UXGA, SXGA, XGA, SVGA Storage media : USB memory, network PC Metering modes : 1% center; 30% center Exposure time : Auto 2 to 1/20.000 sec, Manual 8 to 1/20.000 sec Image Display speed Live image display : Rate 15 fps, 27 fps Magnification: 1x, 2x and 4x Reproductive image display : index display, magnification 1x, 2x, and 4x Input/Output : DC input, Camera I/O, I/F: USB 2.0, DVI-I (digital/analog RGB), Wired LAN: 100Base-TX/10Base-T Dimension aprox:Camera head Ø77 x 42.5 (H) mm, Control unit 180(W) x 47(H) x 200(D) mm, Handset 102(W) x 24(H) x 102(D) mm Complete with : Monitor LCD Wide Screen Color 22"	1	set
4	Stereo Zoom microscope Spesifikasi : Microscope Body Magnification : 0.67X to 4.5X Zoom ratio : 6.7:1 Working Distance : 110 nm Tube inclination angel : 45°	1	set

	<p>Stage height movement by roller guide Stroke per rotation: 36.8mm Full stroke range: 25mm Upper limit stopped by simplified pre-focusing dial Tension adjustment on coarse focus adjustment knob Nosepiece : Revolving fixed quadruple nosepiece with inward tilt Observation tube Type : BInocular with a pair of eyepiece 10x Field number : 20 anti fungus Tube inclination : 30 ° Interpupillary distance adjustment range : 48 – 75 mm Stage Size : 188W x 134D mm Movement range : 76mm X-direction x 50mm Y-direction Specimen Holder : Double slide holder Rubber grip : Equipped as standard Condenser Type : Abbe type with built-in daylight filter N.A : 1.25 with oil Immersion Aperture iris diaphragm : Built-in Dimension / weight : 233W x 411(H) x 367.5Dmm / Approx. 8Kg Objective lens : Plan Achromatic 4X, NA: 0.10, WD: 18.5 mm (anti-fungus) Plan Achromatic 10X, NA: 0.25, WD: 10.6 mm (anti-fungus) Plan Achromatic 40X, NA: 0.65, WD: 0.6 mm (anti-fungus) Plan Achromatic 100X, NA: 1.25, WD: 0.13 mm (spring,oil) Complete with :Power Cord</p>		
12	<p>Vertical Laminar Flow, size 4 feet Spesification : Microbiology vertical airflow safety cabinets CLASS II, with specification: <u>Electricity</u> Power Consumption : 230/50 VHz, 1/Ph+E Current Consumption : 2,4 A Lighting : >1100 Lux Electrical class/IP : 1/20 Heat emmision : 240 W Dimensions Useful Dimensions : 1190W x 660H x 580D (mm) Overall dimensions : 1320W x 1470H x 785D (mm) Working Aperture : 200 mm Max. front aperture : 460 mm Exhaust flow rate : 390 m3/h Noise level : < 58 dB(A) Weight (approx) : 215 kg Construction : - Epoxy powder painted - work chamber inside walls of stainless steel - Stratified safety glass, Microprocessor based monitoring system, full status report provided via 2-line digital display Features : Audio-visual alarms provided, user friendly keyboard and data keeping display, suitable to discharge filtered air through a ducting system, DOUBLE FAN Filter : 70% of the air re-circulated HEPA Filter within the cabinet, whilst 30% discharged through an exhaust HEPA Filter Filter Efficiency : 99,995% MPPS or 99,999% on 0.3 micron particles Complete with : - UV Lamp - Epoxy powder painted modular stand with castors</p>	1	set
13	<p>Triple Gas Incubator + Aecessories Spesification : External Dimension WxDxH; 480x548x575mm, Internal Dimension:350x378x375 mm, Weigth: 50kg capacity:49 Liter Temperature range: 5Celcius to +50Celcius Exterior;painted steel, interior:tempered Stell Tray;stainless steel containeng cooper, standard 3 trays, maximum 6 trays Access port;inner diameter 30mm,on the back side Insulation:Rigid polturethane foamed-in place (CFC FREE) Heating systems: Direct heat & Air (DHA)jacket systems, Heater: 180Watt Humidifying system: natural evaporation with humidifying pan Temperature control: PID control,temperatur display: digital display CO2 Controller: PID control system, TC sensor(direct detection in chamber), CO2 density: digital display O2 Controller: PID control system, Zirconia sensor (direct detection in chamber)</p>	2	set

	<p>Air filter: 0.3um, efficiency 99.97% or more Water level sensor: optical eye Alarm: High/low temperature, CO2 density alarm, O2 density alarm Remote alarm contact: allowable contact capacity DC30V, 2A CO2 inlet connection; 4 to 6 mm diameter tube, CO inlet pressure; 0.03MPaG, O2 inlet pressure: 0.05MPaG Accessories: power supply cord, 3 trays, 1 humidifying pan</p>		
14	<p>CO2 Incubator Spesifikasi : Capacity 170 liter External Dimension WxDxH; 620x710x900mm, Internal Dimension:490x532x665 mm, Weight: 97kg Effective capacity:170 Liter Temperature range: 5Celsius to +50Celsius Exterior; polyester finish baked on zinc galvanized steel, interior: stainless steel containing copper Tray; stainless steel containing copper, standard 4 trays Access port; inner diameter 30mm, on the back side Insulation: Rigid polyurethane foamed-in place (CFC FREE) Heating systems: Direct heat & Air (DHA) jacket systems, Heater: 314Watt Humidifying system: natural evaporation with humidifying pan Temperature control: PID control, temperature display: digital display CO2 Controller: PID control system, TC sensor (direct detection in chamber), CO2 density: digital display O2 Controller: PID control system, Zirconia sensor (direct detection in chamber) Air filter: 0.3um, efficiency 99.97% or more Water level sensor: optical eye Alarm: High/low temperature, CO2 density alarm, door alarm, UV lamp failure alarm Remote alarm contact: allowable contact capacity DC30V, 2A CO2 inlet connection; 4 to 6 mm diameter tube, CO inlet pressure; 0.03MPaG, O2 inlet pressure: 0.05MPaG Accessories: 4 trays, 4 sets of trays support, 1 humidifying pan</p>	1	set
15	<p>Heated Incubator Spesifikasi : Dimension, external WxDxH: 580x595x820mm, internal; 450x460x450mm, Weight :44 kg effective capacity: 93 liter Exterior: Electrically galvanized steel plate, Acrylic resin painted, interior: stainless steel plate Outer door: Tempered glass Insulation: Glass wool Shelf; Stainless steel plate (SUS 304) 2 pcs Temperature control: PID control, temperature display: digital display Timer: electronic timer with delay timer Circuit breaker: 10A Overheat prevention mechanism: built-in thermistor, thermal guard Heater: 200w</p>	1	set
16	<p>Coda inline filter from Coda filter Spesifikasi : Size: 12.25 inch used for IVF, FDA cleared, and CE certified Air tight sealed packing Sterilized by Gamma radiation</p>	2	set
17	<p>Routine inverted Microscope Spesifikasi : Trinocular Inverted Microscope Optical system : Universal Infinity-corrected optical system Stage : Mechanical stage Right-hand low drive coaxial controls stage movement: X=120mm, Y=78mm, with three dish/sample holders Revolving nosepiece : Quadruple revolving nosepiece Filter holder : Insert up to 11mm thick with ϕ45mm filter, detachable Slider insertion : With phase slider pocket and built-in slider position Observation tube : Trinocular tube, interpupillary distance range: 48-75mm Observation optical path: 50(binocular)/50(video port) Illumination Light source : 6V/30W halogen lamp, lamp socket , system built-in frosted and heat absorbing filters, detachable illuminator Focus : Vertical nosepiece movement (stage is fixed), coaxial coarse and fine focus with tension adjustment mechanism, roller slide mechanism, stroke: 7mm up and 2mm down from focus position which is 1mm above the stage, stroke per rotation: 39.6mm (coarse), 0.2mm (fine) 6V/30W Halogen bulb including Stage extension plate Interference light balance daylight filter, 45mm dia.</p>	1	set

	<p>Power cord, C-mount Neutral density Filter Objectives : - U plan semi apochromat phase objective 4X/0.13 Plan achromat phase objective 10X, NA 0.25 Long working distance achromat phase objective 20X/0.4 Long working distance achromat phase objective 40X/0.55 Condenser : Detachable ultra-long working distance condenser Contrast slider : Centrable, with phase ring for 4X, phase ring for 10X/20X and hole for phase ring for 40X Centering Microscope Aperture diaphragm : Lever type, range: from minimum \varnothing3mm to maximum \varnothing44mm Eyepiece : 10x/20 Focusable</p>		
18	<p>Inverted Microscope Spesification : Inverted Relief Contrast Microscope standard set, consist of: Microscope frame Revolving nosepiece : Sextuple Focus : - 9mm stroke (from stage surface: 7mm upward & 2mm downward) Coaxial & fine focusing knobs (min fine focus graduation: 1μm, full rotation of fine focusing knobs: 100 μm) Upper limit stopper Torque adjustment for coarse focusing Illuminator : 100W transmitted light illuminator pillar tilt mechanism (30° inclination angle, with vibration reducing mechanism), Condenser holder (with 50mm stroke, swing-in/out mechanism) External Power supply : Two versions available (100V and 200V), 2.2kg weight Observation tube : Binocular tube, Built-in focusing telescope, Interpupillary distance adjustable 50-76mm, Diopter adjustment function Stage : 2-way mechanical stage with flexible right-hand vertical low drive controls, Glass insert plate with 25mm dia. Condenser : Long working distance condenser for DIC/RC observation (N.A.0.5/W.D.45mm) with 4 position turret (50mm dia.) Objective : - U plan semi apochromat phase objective 4X/0.13 U plan semi apochromat phase objective 4X/0.13 Plan semi apochromat relief contrast objective 10X,NA 0.30, WD 9.0 Long working distance plan semi apochromat phase objective Complete with : Magnification changer (1x & 1.6x), 2-step light selector Neutral Density Filter 45mm & 32mm dia. (25% & 6%) Phase contrast ring slit, including indication plate Lamp house for 100W halogen with long connection cord including Micromanipulator Micromanipulator ICSI/Injection standard set, consist of: Oil hydraulic joystic micromanipulator set consists of 2 each of drop handle oil hydraulic micromanipulators, motorized coarse positioners, universal joint units, and an adapter Microinjector with metal syringe, including injection holder (2 pcs)</p>	1	set
19	<p>Heating stage Spesification : Used For Inverted Microscope Glass Thickness (mm): 50x50(mm) plate center area : 0.5 other surrounding area : 1.0 including Control Unit</p>	1	set
20	<p>Digital Camera for inverted microscope + Monitor Spesification : Imaging sensor Size : 1/1.8 inch color CCD Effective pixels : 2.01 megapixels Scanning mode : Progressive scan Color filter : RGB Bayer primary color filter Recording Range : 7.04 (H) x 5.28 (V) mm, 8.8 mm Maximum recorded : 1.92 million pixels Image display Resolution : WUXGA, WSXGA, WXGA, WSVVGA, UXGA, SXGA, XGA, SVGA Storage media : USB memory, network PC Mount : C-mount Sensitivity : Equivalent to ISO 100/200/400 Metering modes : 1% center (spot); 30% center Exposure time : Auto 2 to 1/20.000 sec, Manual 8 to 1/20.000 sec Image Display speed</p>	1	set

	<p>Live image display : Rate 15 fps (res: 1600 x 1200), 27 fps (res: 800 x 600) Magnification: 1x, 2x (electric zoom) and 4x (electric zoom) Reproductive image display : index display, magnification 1x, 2x, and 4x Input/Output : DC input, Camera I/O, I/F: USB 2.0, DVI-I (digital/analog RGB), Wired LAN: 100Base-TX/10Base-T, serial port Dimension : Camera head \varnothing77 x 42.5 (H) mm, Control unit 180(W) x 47(H) x 200(D) mm, Handset 102(W) x 24(H) x 102(D) mm 200(D) mm, Handset 102(W) x 24(H) x 102(D) mm Complete with : Monitor LCD Wide Screen Color 22"</p>		
21	<p>Anti Vibration Table Spesification : Dimension;1200x800mm Material:Stainless Steel Support stiffness approximately:2000Nm Mass to be dampned: adjustable</p>	1	set
22	<p>Liquid Nitrogen Tank 2 Spesification : capacity : 10 liter Static Holding Time days (1) : 100 Working Time days (2) : 62 Evaporation Rate (1) liters/days : 0.10 Liquid Nitrogen Capacity - liters : 10 Weight Empty - kg : 7.5 Weight Full (3) - kg : 15.6 Neck Diameter - mm : 51 Overall Height - mm : 597 Overall Diameter - mm : 290 Number of Canisters : 6 Canister Dimensions (4) - mm : 38 x 279 Number of 1.2 ml & 2.0 ml vials (5/cane) : 150 Number of 1.2 ml & 2.0 ml vials (6/cane) : 180 Number of 1/2 cc straws (10/cane) : 540 Number of 1/2 cc straws - Bulk (2 levels) : 1500</p>	2	set
23	<p>Liquid Nitrogen tank Spesification : capacity : 35 liter Static Holding Time days (1) : 340 Working Time days (2) : 212 Evaporation Rate (1) liters/days : 0.10 Liquid Nitrogen Capacity - liters : 34 Weight Empty - kg : 15.8 Weight Full (3) - kg : 43.3 Neck Diameter - mm : 51 Overall Height - mm : 668 Overall Diameter - mm : 290 Number of Canisters : 6 Canister Dimensions (4) - mm : 38 x 279 Number of 1.2 ml & 2.0 ml vials (5/cane) : 150 Number of 1.2 ml & 2.0 ml vials (6/cane) : 180 Number of 1/2 cc straws (10/cane) : 540 Number of 1/2 cc straws - Bulk (2 levels) : 1500 Roller Base : R033-8C00 Low-Level Alarm : R033-8C15</p>	1	set
24	<p>Liquid Nitrogen Container + Tipping Stand Spesification : Static Holding Time days (1) : 109 Evaporation Rate (1) liters/days : 0.23 Liquid Nitrogen Capacity - liters : 25 Weight Empty - kg 10.5 Weight Full - kg : 30.8 Neck Diameter - mn : 64 Overall Height - mm : 655 Overall Diameter - mm : 396</p>	1	set
25	<p>Liquid Nitrogen Pump Spesifikasi : The Liquid withdrawal device provides convenient pressure transfer of liquid nitrgen. The divice clams directly to the special neck flange that is found under plastic trim collar around the neck og these containers. Flow rates up to 8 liters per minute are possible at operating pressure up to 10 psig (0.7 bar/69 kPa) Liquid can be dispensed directly from the LWD via the spout provided or through a standard</p>	1	set

	cryogenic transfer hose connected to the liquid outlet		
26	<p>Milli q Water systems fryogen gfree</p> <p>Spesification :</p> <p>direct water purification</p> <p>Resistivity 18.2 MΩ·cm @ 25 °C</p> <p>TOC (Direct-Q 3 system without 185/254 nm UV lamp) < 10 ppb</p> <p>TOC (Direct-Q 3 UV system with 185/254 nm UV lamp) < 5 ppb</p> <p>Particulates (size > 0.22 μm)** < 1 Particulate/ml</p> <p>Bacteria < 0.1 cfu/ml</p> <p>Endotoxin (pyrogens) < 0.001 EU/ml</p> <p>RNase < 0.01 ng/ml</p> <p>DNase < 4 pg / μl</p>	1	set
27	<p>Coda Aero</p> <p>Spesification :</p> <p>Dimension WxDxH: 16"x 16"x 24", weigth:14,9kg</p> <p>Sterilized by gamma irradiated</p> <p>GMP compliance and FDA 510 (k) cleared,</p> <p>maximum air flow of 530 cubic feet/minute</p> <p>effective coverage of up to 400 square feet</p> <p>Air exchanges/ hourin 400 square.ft:9.74</p>	2	set
28	<p>Refrigerator</p> <p>Dimensions</p> <p>Exterior : Approx. 720 x 860 x 1997 (WxDXH) mm</p> <p>Interior : Approx. 600 x 685 x 1505(WxDxH) mm</p> <p>Weight : Approx. 117Kg</p> <p>Net capacity : Min. 615 Liters</p> <p>Insulation : 60 mm</p> <p>Temperature</p> <p>Range : +1 / +10 OC</p> <p>Max. ambient : 43OC</p> <p>Electricity</p> <p>Power consumption : 2.95 KWH/24H, 230 V /50 Hz</p> <p>Noise level : <55 dBA</p> <p>Construction</p> <p>Inner Liner Material : Stainless steel</p> <p>Cabinet Material : Varnish steel</p> <p>Color (exterior) : White</p> <p>Refrigerant : R134a</p> <p>Feature</p> <ul style="list-style-type: none"> - Single compressor - Visual and acoustic alarm - Power failure alarm - Adjustable high/low temperature alarm - Open Door Alarm - Probe failure alarm - Contact for remote alarm - Digital display - Defrost manual/auto - castors - 3 adjustable shelves - Door lock 	1	set
29	<p>USG 4 dimensi</p> <p>Spesification :</p> <p>OPERATING CONDITIONS</p> <p>Voltage : 220 – 240 VAC</p> <p>Frequency : 47 /63 Hz</p> <p>Power : 1030 VA</p> <p>Console Design</p> <p>Style : Digital Color Ultrasound System</p> <p>Probe input : 3 probe port</p> <p>Keyboard : Yes</p> <p>Display User Interface</p> <p>Gray scale level : 256</p> <p>Format</p> <ul style="list-style-type: none"> - B/M scan : Yes - Doppler (D-mode) : Yes - Color Doppler : Yes <p>Keyboard : Alphanumeric Keyboard</p> <p>Annotation : Yes</p> <p>Measurement : Yes</p>	1	set

Observation monitor : 15-inch LCD color monitor
 Interface : DVI-D single link
 Pan/ Zoom : Yes
 Others : Display reversal : Left – Right
 Top- Bottom, 90°-step rotation
 Operating Software
 B- Mode : Yes
 Color Doppler Imaging : Yes
 Power Doppler Imaging : Yes
 QuickScan : Yes
 Memory HDD : 80 GB
 External Storage : CD/DVD, USB
 Measurement : Yes
 Image Quality : Aplipure
 Imaging Processing
 Digital Beam Former : Autofocusing with Digital
 Frequency : Multi Frequency with THI
 Time Smooth : Yes
 Spatial Smooth : Yes
 Image Reverse : Yes, up/down, left/right
 Cine Imaging : Yes, frame by frame loop reply
 Image format : JPEG
 Convex Probe
 Convex probe : wide band convex array probe
 Frequency
 B-mode Frequency : 3.0 / 4.2 / 6.0 MHz
 THI Frequency : 4.6 / 5 MHz
 FOV : : 70°
 Biopsy Angle : : Multi angle
 Steered Angle : +/- 20 degree
 4D Probe
 4D Probe : :wide band convex array
 Frequency : :3 – 6 MHz
 B-mode Frequency : 3.0/4.2/6.0 MHz Multi Frequency
 THI Frequency : 4.6/5.0 MHz
 Acquisition mode : 4D Live, Single Sweep
 3D display modes : Real-time, Freeze
 Input/Output
 Transducer connectors : Max. 3 for standard electronic
 1 for pencil transducer
 Composite output signals : 1
 S-VIDEO output/input : 2
 RGB input/output : 1
 DVI output : 1
 Printer control signal output : 2
 Audio input/output : R + L
 RS-232C : 1 port
 Ethernet
 USB
 Recording
 CD/DVD drive
 HDD image filing (80 GB)
 Color video printer
 B/W video printer
 DVD recorder
 B/W Printer
 Recommended B/W printer models
 UP-897MD
 Color Printer
 Recommended color printer models
 UP- 25MD

30	<p> Hepa Filter HEPA FILTRATION/ CLEANS ROOM Specification: Hepa Standards For High efficiency particulat air filter,Hepa Filter used to Remove Contaminant from the air in th room. The second use of HEPA filter are in order to have to a sterile environment.A specs of dust will do not as much damage as long as It is sterile, but easier to remove the particulate than its to sterile it. Also working with hazardous items such as the AIDS Virus, the TB Virus, ecoli bacteria. Particle Removal efficiency 99.997% Hepa Filter at particvle size 0.12 micron, Complete with </p>	3	set
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	<p>#.Microprosesor Controller HEPA FILTER Hour meter include indicator display Filter Replacement warning alarm signal Constructed with stainless steel frame cell side, devotailed neoprene gasket and galvanized hardware cloth faceguards design permits a longer life for heavy contamination application. Capacity 15 - 20 m3</p>		
31	<p>Gynecologi Bed Spesification : Weight Aprox 125 kg Length 1750 - 2310 mm Width Aprox 1030 mm Height 600 - 970 mm Safe working load 230 kg Mattress base 3 sectional, epoxy coated steel Mattress : Cover fabric: PU-coated, hygienic, durable Castors : Ø 125 mm, central braking system,Ø 150mm design castors, central braking system Adjustment Back-section: (70°) electrically and with quick-release mechanism Leg section height: electrically Leg section tilting: (30°) pneumatically Trendelenburg: (17°) electrically and with quick-release mechanism Standard equipment epocxy coated frame electrical adjustments of mattress base height, back rest, Trendelenburg and height of foot rest separate quick-release mechanism for Trendelenburg and back rest central braking system fixing clamp for knee crutches foot supports, 2 pcs stainless steel bowl mattress set leg rests (knee crutches)</p>	1	set
32	<p>Ultrasonography 2 dimensi Specification : Dimensions and Weight Height: 1260 mm Width: 500 mm Depth: 625 mm Weight: approx.70 kg Electrical Power Voltage: 100-120V, 220-240 V Frequency: 50/60 Hz Power: Max. 500 VA with Peripherals Console Design Console Style Integrated HDD (160GB) 2 probe ports User Interface Operator Keyboard Alphanumeric Keyboard Ergonomic Hard Key Operations Backlight keyboard Integrated Recording Keys for Remote Control of Peripheral Devices and DICOM Devices 6 TGC Pods, with Re-mapping functionality at any depth Display Screen 15 inch High-Resolution Color LCD Display pixel: 1024x768 pixels Interactive Dynamic Software Menu Rotate and folded Angle Adjustable Horizontal: -50°to +50° Vertical: -90°to +45 Brightness Adjustment Standard Features High Resolution 15 inch LCD Cine memory: Over 1,000 Frames or over 60 sec CINE Memory 160GB Hard Drive</p>	1	set

CD R/W +DVD ROM
 Loops storage-from 'on the fly' scanning and from memory
 Automatic Optimization
 Auto Tissue Optimization
 Patient Information Database
 Image Archive on Hard Drive
 M&A Calculation Package
 Abdominal Calcs
 Vascular Calcs
 Cardiac Calcs
 OB Calcs and Tables
 Gynecological Calcs
 Fetal Trending
 Multi Gestational Calcs
 Urological Calcs
 Renal Calcs
 Imaging Processing and Presentation
 TrueScan : software Intensive Ultrasound Imaging Platform
 Digital Beamformer
 256 Digital Processing Channels Technology
 Displayed Imaging Depth: 2-30 cm , probe dependent
 Transmission Focus
 1 – 8 Focus Points Selectable
 Focal Zone Position
 Continuous Dynamic Receive in B/M (system dynamic range 165db, 30-120db is adjustable)
 Focus/Aperture
 Multi-Frequency/Wideband Technology
 256 Shades of Gray (VGA)
 Adjustable Field of View (FOV)
 Image Reverse: Right/Left
 CINE Memory/Image Memory
 CINE : Cine memory: Over 1,000 Frames or over 60 sec CINE Memory.
 CINE Gauge and CINE Image Number Display
 CINE Review: Frame-by-frame, Loop
 CINE Review Speed: 8 types 1, 11%, 13%, 14%, 17%, 22%, 31%, 48%
 Selectable CINE Sequence for CINE Review
 Start and End Frame Selections for Loop Playback
 Separation Maker to Indicate Time Discontinuity
 Annotations on CINE Playback
 Scrolling Timeline Memory
 Mode Measurement
 B-Mode
 Distance
 Circumference/Area (Ellipse/Trace)
 M-Mode
 Tissue Depth (Distance)
 Time Interval
 Depth Difference with Time Interval and Slope
 Generic Measurement
 B-Mode : % stenosis,Volume,Angle
 M-Mode : % stenosis,A/B Ratio,Heart rate
 consists of :
 Main Unit
 Wide band Convex Probe 2.0 – 5.2 MHz
 Wide band Mivroconvex Probe 5.0 – 10.0 MHz
 Printer B/W
 UPS

	OPERATIVE LAPAROSCOPY FOR GYNECOLOGY		
	spesifikasi :		
	Veress Needle / Trocars & Reducer		
	VERESS INSUFFLATION NEEDLE 10CM	1	pcs.
	Trocar Sleeve, size 5/110 with smooth tap mm,	2	pcs.
	Trocar Pin Triangular 5/110MM	2	pcs.
33	Sealing Unit For 5MM Trocars	1	pcs.
	Trocar Sleeve 10/110MM Smooth With Tap	2	pcs.
	Trocar Pin Triangular 10/110MM	2	pcs.
	Sealing For 10/12MM TROCARS	1	pcs.
	Sealing F/10/12MM TROCARS W.REDUCER	1	pcs.
	Disp.Sealing 10/12MM TROC.W.REDUCER	1	pcs.
	Reducing Sleeve 10MM TO 5MM	1	pcs.

Telescope, Full HD Laparoscope 110MM 0Deg 330MM	1	pcs.
Single Scope Tray for Scops up to 340MM	1	pcs.
Anti foging Sterril F.Endoscopy	1	pcs.
JAW INS.GRASPING & DISS.FCPS D:5/310MM	1	pcs.
INSULATED OUTER TUBE 5/5MM 310MM		
MONOPOLAR HANDLE WITH RATCHET	1	pcs.
AGGRESIVE GRASPERS 5MM 310MM	1	pcs.
TUBAL FIXATION FCPS 5MM 310MM	1	pcs.
GRASPING FCPS.2X4T.D:5/310MM	1	pcs.
CLAW GRASPER 10MM 310MM	1	pcs.
BIOPSY FCPS W/TEETH 5MM 310MM	1	pcs.
Scissors	1	pcs.
METZENBAUM SCISSORS 5MM 310MM		
Scissors Insert, Hook Scissors, single action jaws, size 5 mm, length 36 cm	1	pcs.
Instruments Bipolar	1	pcs.
BIPOLAR METZ SCISSORS 5MM 310MM		
BIPOLAR MACRO FORCEPS D:5/ 310MM	1	pcs.
BIPOLAR CABLE 4M AAG/MARTIN AAG FLAT	1	pcs.
HANDLE F/MONOPOLAR ELECTRODES 5MM	1	pcs.
CERAMIC ELECTRODE TIP J-HK F/GK372R	1	pcs.
CERAMIC ELECTRODE TIP L-HK F/GK372R	1	pcs.
MONOPOLAR HF CABLE 3.5M LONG	1	pcs.
DUROGRIP NEEDLE HOLDER STR.D:5/310MM	1	pcs.
NEEDLE HOLDER LEFT CURVED 5MM 31CM	1	pcs.
KNOT PUSHER 5MM 31CM	1	pcs.
LOOP APPLIER 4.4MM IN - 5MM OUT	1	pcs.
FORCEPS W/MYOMA SCREW PO183R	1	pcs.
EXPLORATORY PROBE 5MM 400MM		
CLEANING BRUSH 5MM DIA 6/PKG	1	pcs.
CLEANING BRUSH 10MM DIA	1	pcs.
STERILIT OIL SPRAY 300ML		
STERILIT INSTRUMENT OIL 50ML	1	pcs.
FLOW40 INSUFFLATOR	1	unit
<p>Technical Spesification :</p> <p>High-flow insufflator with central info display</p> <p>With integrated gas preheating</p> <p>Automatic overpressure gas release</p> <p>Intuitive and simple operation</p> <p>Gas connection to gas cylinder or central supply</p> <p>Pressure pre-selection in mmHg</p> <p>Pre-selectable flow rate</p> <p>Display of gas consumption, in litres</p> <p>Gas cylinder fill level display</p> <p>Optional video overlay for documentation of insufflator data</p> <p>Info line for error messages</p> <p>Paediatric flow rate (from 1 l to 5 l in steps of 0.5 l/min)</p> <p>Insufflation medium, Pure medical CO2 gas</p> <p>Maximum gas flow (Flow CO2), 40 l/Min</p> <p>Pressure range, 1-30 mm/hg</p> <p>Integrated gas heating system, yes</p> <p>Automatic gas venting system, yes</p> <p>User menu, 5 languages</p> <p>Central Information Display, yes</p> <p>Dimensions (w x h x d), 305x185x340</p> <p>Weight, 11 kg</p> <p>Maximum Power Consumption, 125 V</p> <p>Safety Class acc. to EN 60601-1, 1</p> <p>Protection level acc. to EN 60601-1, BF</p> <p>Classification acc. to directive, 2a</p>		
IEC320 POWER PLUG AND CORD 1M	1	pcs.
CO2-FILTER STER 25 UNITS	1	pcs.
INSUFFLATION TUBE W/GAS PREHEATING	1	pcs.
HIGH PRESSURE TUBE 1M US/DIN	1	pcs.
CO2 Bottle	1	pcs.
IRRIG.PUMP FLUID3 PRESSURE CONTROL	1	Unit
<p>Technical Specification :</p> <p>Maximum Irrigation Rate 1,8 l/min</p>		

<p>Max. Irrigation/Suction Pressure 400 mm Hg Selectable Power Supply 100V/115v/230V Connection of pneumatic footcontrol, Yes Dimensions (w x h x d), 143x317x170mm Weight 5,5 kg Maximum Power Consumption 36VA Safety Class acc. To EN 60601-1, I Tested acc. To norm, EN 60601-1, EN 60601-1-2 Protection level acc.to EN60601-1, BF Classification acc.to directive, II a</p>		
93 / 42 / EEC		
IEC320 Power plug and Cord 1M	1	pcs.
Suction irrigation Instrument	1	pcs.
Fixture For Infusion Stand Fluid3	1	pcs.
Lateral Fixtur With Round Tube	1	pcs.
Tube Fittings Reusable F.PG050	1	pcs.
<p>HF Combi Unit 300W Monop.80W,Bipolar Technical Spesification : Easy, intuitive operation Monopolar and bipolar cutting and coagulation Cutting quality remains constant with different tissue types Skin-to-plate monitoring system when using split monopolar patient electrodes Safe and gentle coagulation with no tissue adhesion No current leakage outside the bipolar application field Power setting can be saved in 3 memory locations Monopolar Output POWERCUT 1 (300 W), 250 - 600 POWERCUT 2 (200 W), 250 - 600 POWERCUT 3 (150 W), 250 - 600 POWERCUT 4 (100 W), 250 - 600 CONTACT COAG (120 W), 250 - 600 SPRAY COAG (80 W), 700 - 1200 Bipolar Output BICUT (80 W), 700 - 1300 BICOAG (80 W), 700 - 250 Maximum Power Consumptio, 550 kHz Frequency, 447kHz Modulation frequency monopolar, 20 kHz Modulation frequency bipolar, 1 kHz Weight, 9,3 kg Classification acc. to directive 93/42/EEC, IIB Safety Class acc. to EN 60601-1, I</p>	1	unit
Iec320 Power Plug ang Cord 1M	1	pcs.
Doub.Foot Switch 4m Cable	1	pcs.
Silicon Neutral Elect.Large 310x160MM	1	pcs.
Silicon Rubber Band W/4 Buttons 1,5M	1	pcs.
Cable F.Silicon Neutral Electrode 3,5M	1	pcs.
<p>3 CHIP FULL HD CAMERA WITH ZOOM Technical Specification : CCD (Inch), 3x1/3" Camera Resolution, 1920 x 1080pixel Scan Mode, Progresssive Scan 60Hz Modes, 5 Presenttings 3 User Settings Video Signal Outputs, DVI-D 1080p (60hz) HD-SDI 1080i, 720p (60 Hz) HD-RGB 1080i, 720p (60 Hz) S-Video NTSC Video (composite) NTSC Buttons on Camera Head, 2 (6fungtions) Shutter Speed, 1/50-1/10 000 s Zoom, Optical (18-45mm) & digital 2x Colour Bars, Yes Dimensions Camera Head w/o, 40x53x75 mm Zoom coupler (w x h x d) Dimensions CCU (w x h x d) : 305x89x305 mm weight CCU : 4,5 kg</p>	1	unit

	Weight Camera Head w/o zoom : 140 g		
	Length Camera Cable : 3 M		
	Power Supply : 100-240 V Ac, 50-60 Hz		
	Maximum Power Consumption : 45 va		
	IEC320 POWER PLUG AND CORD 1M	1	pcs.
	MONITOR 24" FULL HD LCD MONITOR Panel Quality : with anti-reflection Safety glass Resolution (Pixel) : 1920x1200 (full HD) Viewing Angle : 178'/178' Aspect Ratio :16/10 Video signal inputs : DVI (DVI-D) HD-RGB (4xBNC or HD-15) Control inputs : RS-232 (DB 9) Power input : 24 DC	1	unit
	FOOT F/15"&19" FLAT SCREEN MONITOR	1	pcs.
	IEC320 POWER PLUG AND CORD 1M	1	pcs.
	LIGHT SOURCE & FIBER OPTIC		
	AXEL XENON Light Source 180W,Life time 700Hour, Power Supply 100-240VAC,50-60Hz, Tasted acc.norm EN60601-1,EN60601-1-2	1	pcs.
	Fiber Optic Light Cable, 4.8 mm, length 250 cm	1	pcs
	IEC320 POWER PLUG AND CORD 1M	1	pcs
	TROLLEY System		
	ENDOSCOPY TROLLEY NARROW	1	pcs
	MAINS CORD ORANGE EURO-PLUG	1	pcs
	CO2 CYLINDER HOLDER	1	pcs
	INFUSION BOTTLE HOLDER	1	pcs
	CAMERA HOLDING DEVICE	1	pcs
34	Lampu operasi for laparoscopy Main Lamp Light intensity 80.000 - 130.000 Lux (1m) , Infrared Filter Colour temperature 4300 K Voltage 22.8V (optimal) Transformer 230 VAC / 50 Hz, 24 V/350 VA Halogen bulb 5 x 50 W , Service Life 1000 hrs Unbreakable outer glass Working distance 0.7 - 1.5 m Depth of illumination 980 mm Light field diameter d 185 - 280 mm Focusing handle can be detached for sterilization Second lamp Light intensity 40.000 - 80.000 Lux (1m) , Infrared Filter Colour temperature 4300 K Voltage 22.8V (optimal) Transpormer 230 VAC / 50 Hz, 24 V/350 VA Halogen bulb 3 x 50 W , Service Life 1000 hrs Unbreakable outer glass Working distance 0.7 - 1.5 m Depth of illumination 1030 mm Light field diameter d 175 - 240 mm Focusing handle can be detached for sterilization Focusing handle can be detached for sterilization Dimension : Arms : 1 x 850 + 800 mm Height : 1780 mm Width : 600 mm Total weight : aprox 65 kg	1	set
35	Examination gynaecological complete set Gynaecologi chair Spesification : Electromotive height adjustment from 570 - 900 mm electromotive backrest movement and table tilting Trendelenburg position up to 25o seat in examination position to be lowered up to 10o 3 programmable working positions reset to "0" position integrated paper roll holder in backrest, handles, movable foot control panel seat- and backrest cushion removable	1	Set

	including headrest magnetic pillow fixation for leg holders voltage 230 V, 50 Hz, 3A		
	Calposcope Spesification : Magnification : 3 Step magnification straight binocular tube F 125 mm,Oculars WF 20 x V,Objective lens F 125 mm,Cable fibre optic,swing & green filter,Cover,swivel arm complete with spring suspension arm & adaptor for gynecilogi chair calposcope holder mountable left or right for tube calposcope 30 -38 mm	1	set
	Elektrocouter Spek : 2.2 MHz cutting and coagulation, particularly suitable for conisation of portio, incl. support handpieces at function support 1Radio Surgery 2 Foot switch with 2.5 m cable 3 Handpiece for Conisation with 3 m cable 4 Conisation electrode Bio-Cone, 15 x 18 mm 5 Conisation electrode Bio-Cone, 18 x 24 mm 6Conisation electrode Bio-Cone, 15 x 30 mm	1	Set
	Gyne basic equipment corpus : 97 x 65 52 cm Swivel Arm : 88x80x48 Mobility Drawer unheated,Full pullout,air matic,left side Drawer unheated,Full pullout,air matic,left Right keyboard deposit partial pull out,right side instrument deposit with covering cap Drawer with instrument heating full pullout Elektric instalation	1	set
	Suction module 2x3 liter DDS Jar vacuum of 0 up to -91 kPA,Air flow rate of pump 40 + 4 liter/min	1	set
	Camera System Camera 31 DV with image stroge super slimp monitor TFT 15" Beam Splitter 21 LED Light Source	1	set
	Smoke evacuation 2.2 MHz cutting and coagulation, particularly suitable for conisation of portio, incl. support handpieces at function support	1	set
36	Cyrosurgery Spesification : Freezing : Gaseous adiabatic expansion Deffrozing : Gasaoous compression heat Applicable Gas: Carbon oxide gas (Co 2) Nitrous oxide gas (N2O) Gas Pressure: ± 50 ` 60 kg/ cm 2 Gas consumption:±0.5 kg (100 l) approx per 3 minute Lowest temperature: - 70 ° C approx at CO 2 - 80° C approx at N2O Measurement Overall length: ± 310 mm Shaft: ± 250 mm long (with tip B) Holder: 600 g approx Accessories: Replaceable tips, type A,B, C 1 each Pressure regulator 1 each Probe hunger 1 each Attachment to 7.5 kg cylinder 1 each Carrying case 1 each	1	set
37	Fetal Monitor central system twin completed with monitor for 8 Bed Twin Monitoring Fetal Monitor Ultrasound Technique : Pulse doppler with auto-correlation digital signal processing Center frequency : 1.024 MHz Intensity : 2.5 mW/cm2 typical Heart rate range : 50-240 BPM Signal Indicator : Flashing LED with heart rate	1	set

Uterine Activity

Range

Tocotonometer : 0-100 Relative units

Physical

Dimension : 18 cm H x 24.2 cm W x 13 cm D

Weight : Approximately 1.9 kg

Power

Line Voltage

Line frequency

Display

Monitor : Back-lit LCD screen 10.3 cm x 7.9 cm (4.0 in x 3 in)

Recorder

Physical

Dimension : 11.5 cm H x 24.2 cm W x 20.4 cm D

Weight : Approximately 3.4 kg

Power

Line Voltage : 100-120 VAC or 220-240 VAC

Line frequency : 50/60 Hz

Display

Monitor : Back-lit LCD screen 10.3 cm x 7.9 cm (4.0 in x 3 in)

NON STRESS TEST

The unique Non-Stress Test (NST) Graticule Indicator assists the clinician in electronically determining a reactive or non-reactive NST

THE BACK LIT SCREEN

The Backlit LCD Screen permits easy viewing of the trace, with or without paper

TRANSDUCER

A transducer-based Signal Indicator facilitates location of the Fetal Heart Rate (FHR) for display of Single or Twin Fetuses.

MONITOR

The monitor also features Programmable Alarms and Screen Scroll Capabilities.

TIME INDICATOR

A therapeutic Time Indicator enables the clinician to mark the time, day, and date of the exam, and a remote marker differentiates patient-initiated activity

BATTERY

Battery Operated, it can run up to four hours at room temperature

ADVANCED PATIENT DATA STORAGE

can store up to 12 hours of patient examinations

CONNECTIVITY

The monitor can be connected directly to an office PC, allowing annotation and storage of test results with the optional Lite View software. In a clinical setting, Lite conveniently interfaces to a Central Nurses' Station (CNS). To save money and valuable space, several Lite Monitors can be networked to a single Lite Recorder

CENTRAL NURSE STATION

Central Nurse Connectivity, can be connected to up to 8 Fetal Monitors, with 24 " Monitor Central Station. Lite View software.

When used for home care or in remote locations, patient data can be transmitted to a computer via a telephone and modem

This enables stored patient data to be reviewed for later consultation, research, or consolidation of patient records.

38	<p>USG 4 Dimensi Transvaginal Spesification : Main Unit with minimal 19" LCD Monitor Touch Screen 10.4 in High Resolution color LCD Screen Integrated HDD minimal 160GB Integrated DVD+R(W) / CD-R(W) drive Automatic Tissue Optimization Harmonic Imaging</p>	1	Unit
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	<p>High Definition-Flow (Advance Techology of Color and Power Doppler Imaging) Panoramic View Speckle Reduction Imaging Compound Resolution Imaging Static 3D Mode Focus Frequency Composite (FFC) High resolution Zoom Pan Zoom Streering Virtual Convex Beta View Patient Information database Image Archieve on hard Drive 3D/4D data compression (lossy/lossless) Inversion Real-time automatic Doppler calculations Measurement & Calculations including Report for : OBGIN,VASCULAR,CARDIO,SMALL PART, SMALL PART,UROLOGY,PEDIATRIC,ORTHO,NEUROLOGY,MULTIGESTATIONAL CALCULATION Min 60.000 system processing channel technology 4D Real Time Volume Calculation Volume Contrast Imaging with Omniview 4D-STIC Tomography Ultrasound Imaging Auto Volume Calculation for follicle Auto NT measurement Auto 4D Render Start DICOM Software Packages for post processing (for re-construction, measurement etc. for presentation or educational purpose) PROBES : 4D Convex Volume Probe Applications : Abdomen, OB Gyn, Pediatric, Urology Maxium Band Width (-20dB) : 4 – 8.0 MHz Number of Elements : 192 4D Transvaginal Volume Probe with High Frequency Applications : OB Gyn, Urology Maximum Band Width(-20dB) : 5.0 – 13.0 MHz Number of Elements : 256 <i>Include:</i> B&W Printer Color Printer UPS 2 KVA True Online Basic User Manual Eksternal LCD 32" (include VGA Cable + Bracked)</p>		
39	<p>Cathlab</p> <p>▪ Spesification: The latest design and model of a single plane flat detector angiography system with the technical and functional capabilities for diagnostic and therapeutic of cardiac, vascular and neuro procedure completed with an integrated interventional tools make it the best use in it class for interventionists. The system shall be capable of generating high quality and high resolution images for both diagnostic and therapeutic interventional applications. The system shall provide integrated safety devices for patient and equipment by an active anti-collision device. In the event of power failure, or software hand-up, fluoroscopy shall recover instantly during the examination. The system shall be interfaced with hospital RIS, PACS / CIS using DICOM and HL7 standards</p> <p>▪ The proposed system shall have the following main features: A latest hardware and software with up to 55deg/sec high speed rotation for Rotational Angiography. An extention of Rotational Scan, providing real-time 3D impressions of the coronary artery tree. It acquires multiple projections with one contrast injection via a fast dual axis rotational scan of the region of interest. Rotation and angulation movements are combined in one complete scan trajectory, using the maximum rotation and angulation speed of the system (up to 55°/sec) Capable of real time Digital Angiography (DA) and Digital Subtraction Angiography (DSA) acquisitions. Capable of head to toe patient coverage without changing position of the patient, full body coverage</p>	1	set

High frame speed acquisition of up to 30 fps or better

Capable of fluoro grabbing of fluoroscopic runs for documentation.

Clinically validated Coronary Quantification Analysis and Left Ventricular Quantification Analysis

Ceiling mounted system with positioning at 3 sides of the table for excellent patients access for various techniques and procedures.

Interventional tool for pre and post stent deployment and better visualization especially for drug elution stents in relation to the vessel wall

Automatic stand positioning programme.

1. Generator:

The system shall be multi-pulse, microprocessor-control and high power generators with high frequency inverter

Maximum Power output $\geq 100\text{kW}$

Radiographic mA range:

- Lower limit $\leq 10\text{ mA}$

- Upper limit $\geq 1250\text{ mA}$

Radiographic kV range:

- Lower limit $\leq 40\text{kV}$

- Upper limit $\geq 125\text{ kV}$

Radiographic exposure timer range:

- Lower limit $\leq 1\text{ ms}$

- Upper limit $\geq 4\text{ sec}$

Fluoroscopic mA range :

- Lower limit $\leq 10\text{ mA}$

- Upper limit $\geq 200\text{ mA}$

Fluoroscopic kV range:

- Lower limit $\leq 40\text{ kV}$

- Upper limit $\geq 110\text{ kV}$

Pulsed fluoroscopy:

- Max 30 pps

- Min 3.75 pps

Footswitch for fluoroscopy and acquisition

Pre-programme exposure and procedure protocol:

i). Unlimited number of programmable protocol, includes setting of examination, procedure and X-ray

ii) Each acquisition protocol shall be able to programme the right X-ray parameters, processing, frame speed including pre-filtration settings, image appearance, etc. based on type of procedures and type of patients.

2. X-ray Tube

High performance x-ray tube assembly with spiral liquid bearing technology and noise-free rotation which meets and exceeds requirements for cardiac and all vascular applications.

Grid Switch with continuous rotating anode

Anode heat storage $\geq 2.4\text{ MHU}$

Max. anode heat dissipation $\geq 11\text{ kW}$

Continuous anode heat dissipation $\geq 3.2\text{ kW}$

Direct oil cooling through spiral groove bearing with circulation oil /air heat exchanger

X-ray tube housing heat dissipation $\geq 5.4\text{ MHU}$

Dual focal spot size:

i) Small focus $\leq 0.4\text{ mm}$

ii) Large focus $\geq 0.7\text{ mm}$

i) Max input power for Large focal spot (IEC) $\leq 67\text{ kW}$

ii) Max input power for Small focal spot (IEC) $\leq 30\text{ kW}$

Extra X-ray tube pre-filtration for patient dose savings, besides inherent filtration:

i) Material

ii) Thickness 0.2, 0.5 & 1.0 mm

3. Collimator:

Automatic collimation system with near shutters iris diaphragm.

Spectral filtration shall be incorporated.

Shutters and wedges can be positioned without exposure and can be visualized on screen.

The wedged filters shall be independently controlled from the tableside

Automatic wedge positioning shall be available for cardiac applications

4. C-arm stand:

Ceiling suspended C-arm

i) Motorized and manually positioned

ii) Position at head end, left and right side of patient

C-Arm Rotation (LAO/RAO) :

i) Head end: $120^\circ\text{LAO} - 120^\circ\text{RAO}$

ii) At left and right side of patient: $45^\circ\text{LAO} - 45^\circ\text{RAO}$

C-Arm angulation (Cranial/Cau) :

i) Head end: $45^\circ\text{Cranial} - 45^\circ\text{Caudal}$

ii) At left and right side of patient: $120^\circ\text{Cranial} - 120^\circ\text{Caudal}$

Focus spot to iso-centre: ± 76 cm

Iso-centre to floor: ± 106 cm

Focus to flat detector distance (SID) :

i) Lower limit ≤ 70 cm

ii) Upper limit ≥ 120 cm

iii) Shall allow motorized and manual SID movement

C-Arm throat depth/inner radius ± 105 cm

i) C-Arm rotation speed $\geq 25^\circ/\text{sec}$

ii) C-Arm rotation speed for rotational scan $\geq 55^\circ/\text{sec}$

C-Arm angulation speed $\geq 18^\circ/\text{sec}$

Patient protection mechanism is to protect the patient from unexpected contact between the detector and the body. The active capacitive sensing to prevent collision at both the detector and tube side

Parking during emergency: The stand shall be able to be fully parked away from the patient table manually and by motorized movement.

For cardiac applications, swing scan / fast dual axis rotational scan is required. The rotational speed should be ≥ 30 deg/s

5. Automatic positioning stand program

Unlimited number of pre-program stand position sequences can be stored. Each type of procedure can store up to 10 stand position sequences

Personalised to active user and procedure

Programmable parameters: Shall include at least the rotation, angulation, SID and detector.

Roadmap-driven positioning: Able to automatically position the stand to the position the stand to the original stand parameter setting of the roadmap image selected. The stand parameter shall include at least the rotation, angulation, SID and detector orientation.

Selection of the APC programme shall be quick and easy from the patient tableside where selection of the positions shall be correlated directly with the procedure and user.

6. Patient Table:

Type : Floor-mounted radio-translucent floating top.

Tabletop length ≥ 310 cm

Table-top height range : 80 -105 cm

Table-top width: ± 50 cm

Transverse tabletop travel range: ± 36 cm

Longitudinal tabletop travel range: ± 120 cm

Tabletop pivot range and no. of locking positions: -90° to $+180^\circ$

Supports patient weight (with fully extended tabletop working position away from the table base (IEC standard)). CPR can be performed while the tabletop is set in any longitudinal position.

Table loadability : ≥ 250 kg + 50 kg for CPR

Lead protection shield under patient table

7. Flat Detector:

Detector type, please state

Number of effective imaging formats, please state

Detector physical size and including housing $\geq 26\text{cm} \times 26$ cm

Detector field of view $\geq 18\text{cm} \times 18$ cm

Image matrix $\geq 1024 \times 1024$

Pixel size $\leq 184\mu\text{m} \times 184$ μm

Bit depth ≥ 14 bit

Output resolution matrix at 8 bit $\geq 1024 \times 1024$

Detector quantum efficiency $> 75\%$ at 0 lp/mm

8. Image display:

Examination room : At least 3 monitors, includes 2 TFT-LCD B&W monitors, for live images display & reference images, 1 color LCD for hemodynamic display

i) Monitor size $\geq 18"$

ii) Image matrix $\geq 1280 \times 1024$ SXGA

iii) Monitor brightness ≥ 600 Cd/m²

iv) Monitor mounting should be included

v) Monitor carriage: please explain

Control room: At least 2 TFT-LCD monitors

i) Data monitor $\geq 18"$ color

ii) Image monitor $\geq 18"$ B/W

iii) Image matrix $\geq 1280 \times 1024$ SXGA

On screen display for stand position, tilt position, tube load status, fluoro mode, frame speed, detector field size, exposure factors, both rate and accumulated dose shall be available in the exam room shall be provided in the control room.

9. Digital Imaging System:

Digital angiography (DA), Digital Subtraction Angiography (DSA) capability and pulsed fluoroscopic acquisition capabilities.

Acquisition frame rate :

i) Variable frame rate range : 3.75, 7.5, 15 & 30 fps

ii) Acquisition matrix at 12 bit : 1024×1024

Pulsed fluoroscopy frame rate :

- i) Variable pulse rate range: 3.75, 7.5, 15 & 30 fps
- ii) No. of selections at the table side of different pre-programmed dose rate and pre-filtration combinations for optimal balanced between dose and image quality.

Fluoro grab

- i) Grab and store fluoroscopic run (no. of fluoro images per grab) \geq 999 images
- ii) Grab fluoroscopic run must be recallable and reviewable in cine loop

DSA functions shall include the following:

- i) Real-time subtraction at all frame rates for fluoroscopy mode and acquisition mode: 0.5, 1, 2, 3, or 6 fps.
- ii) Live 2D roadmap capability
- iii) Mask and remask selection
- iv) Landmarking
- v) Pixel shift
- vi) All the above functions must be easily selectable and operable inside the examination from the tableside

Number of roadmap images can be store store up to 999 images. Cine loop must be possible.

Able to select, store and display simultaneously 2 reference images on 2 separate monitors in examination room

Shall have ability to acquire and store up to at least 2 physiological data and display at least one real time physio data with acquired images simultaneously.

Image storage disc capacity:

- i) Storable matrix size at 10 bit: \geq 1024x1024
- ii) Image storage at 1024 matrix, 10 bit: \geq 100,000 images

Shall provide the following DICOM protocols:

- i) DICOM Store / Send
- ii) DICOM Modality Worklist Management
- iii) DICOM Modality Procedure Performance Step
- iv) DICOM Query and Retrieve
- v) DICOM Print
- vi) DICOM Storage Commit

Conformance Statement shall be submitted.

10. System Controls and user interface:

Tableside controls for all geometry, imaging parameters, procedure controls including acquisition programme, automatic positioning and processing and Quantification analysis functionality.

Patient management, acquisition and data management shall be controlled from one keyboard and mouse and supports workflow process of scheduling, preparation, acquisition, review, report and archiving.

Image review and post processing : Shall be able to provide the following functions at the operator console -

- i) Variable view speed
- ii) Forward / reverse
- iii) Cine loop functions
- iv) Window width and window level functions
- v) Image inversion
- vi) Store image to roadmap file
- vii) Select roadmap image
- viii) Pan / zoom enhancement
- ix) Examination overview of up to 16 images
- x) Free text annotation.
- xi) Individual images, runs or examination can be selected for archive
- xii) Re-masking, pixel shift and landmarking.

Quantitative Evaluation Software at control console

- i) Shall be clinically validated
 - ii) Automated Left Ventricular Analysis including Manual Ejection fraction, Regional Wall Motion, Centerline Wall Motion, Slager Wall Motion, Calibration routines, Recalculate EF, Recalculate ALVA shall be available.
 - iii) Automatic & manual coronary vessel diameter, stenosis ratio measurement must be available.
 - iv) Automatic & manual vascular vessel diameter, stenosis ratio measurement must be available
- Two infrared handheld remote controls for image review, freeze, selection of roadmaps and image store shall be available

11. Rotational Angiography:

Acquisition mode : Shall be possible for any body part to provide 3D impression of the complex vasculature and coronary arteries including lower limb.

Rotation at head end

- i) Speed \geq 55°/sec
- ii) Rotation angle \geq 240 deg
- iii) Frame rate 15 or 30 fps

Subtracted run and unsubtracted run shall be possible. Choice to abort the mask run during the subtracted rotational angio run shall be possible if the contrast rotational angio run has sufficient diagnostic information.

Fast dual axis rotational scan (min 30 deg/s) is required.

12. Interventional Packages:

Pre- and post Stent Deployment Tool:

Should provide a mechanism or software tool for improved accuracy and success of pre- and post stent deployment. The tool shall allow the user to:

- i) Enhance visualisation of balloon or stent positioning before deployment in relation to the vessel walls
- ii) Enhance visualisation of stent after deployment to ensure proper and homogeneous expansion in clear relation to the vessel walls in DA and DSA
- iii) Enhance visualisation of hard calcification
- iv) Improve visualisation of stent condition e.g. tapering, crack, etc
- v) Perform measurement on stent after deployment to check and record the homogeneity of expansion

The tool should be in real-time and easy to use with no operator's interaction and steps required except for measurements. Results should be instantaneous.

The tool should be controllable at the tableside and control room.

The image shall be displayed in the examination room at the monitor ceiling suspension. At least 19" TFT-LCD colour monitor.

This mechanism or software tool shall be clinically proven in terms of low cost comparative clinical outcome to IVUS. Provide names of clinical papers, doctor's name and institution.

Shall be able to store/archive on CD-R and USB device the captured images in JPEG, AVI movies and VRML file formats, viewable on standard PC.

DICOM 3 compatible to send DICOM secondary capture to DICOM nodes e.g. PACS and DICOM printer.

13. DICOM CD Recording:

DICOM CD-Recording workstation for archiving DICOM XA and secondary capture images of selected images or entire examination on DVD in DICOM format.

Software should allow multi-session recording for the same patient

Software should allow multi-patient recording

Software shall support automatic writing to multiple disks of the same patient if the CD/DVD space is not sufficient.

A DICOM viewer software should be incorporated into the DICOM CD/DVD media for review in any standard PC.

Comply with DICOM 3 standard.

14. Haemodynamic monitor:

Able to monitor all required Haemodynamics parameters in a cath lab.

Shall be able to acquire the following parameters:

- i) 12 Lead ECG
- ii) NIBP, Adult & Neonate
- iii) SpO2
- iv) Integrated Thermal Cardiac Output
- v) Respiration
- vi) At least 4 Invasive Pressures
- vii) Body Surface Temperature
- viii) Signal quality: At least 16 bit with variable sampling rate of up to 10 MHz.

Shall have comprehensive Haemodynamic Analysis Software.

Shall have editable Coronary Tree and Vascular tree annotations with Standard Cardiac and Peripheral Templates linked to clinical database.

Shall have Paediatric Congenital Heart Diagrams

Shall have Full disclosure for recording and storing all waveform data for post case review and analysis.

Shall include the following accessories:

- i) Patient cable set of SpO2 Extension, SpO2 Finger Probe and NIBP Hose
- ii) One (1) each Adult/Large Adult Cuff
- iii) ECG cable with 12 lead
- iv) Radiolucent lead set
- v) ECG lead covers
- vi) Cardiac output cable with bath temp probe
- vii) Surface body temp cable
- viii) Two (2) each pressure adaptor cables

15. Installation, Training, Warranty and room preparation:

Installation and Training

Operation manuals

Warranty : 1 year

Persiapan ruangan, termasuk proteksi radiasi

16. Supporting items:

Contrast injector

	Mattress	1	set
	Cath arm support	1	set
	I/V drip stand attachment at the table	2	set
	Peripheral filter set for lower limb angiography	1	set
	Set of arm supports	1	set
	Patient resistant straps	2	set
	Head fixing aid	1	set
	Examination light	1	unit
	Ceiling suspended lead shield	1	set
	Tablesides lead shield	1	set
	Two-way hands free intercom system	1	set
	Double sided lead protection apron of 0.5mm lead equivalent	4	pcs
	Thyroid shield + gogle	4	pcs
	Defibrillator	1	unit
	Transport monitor	1	unit
	Equipment trolley	1	unit
	Avoxyometry	1	unit
	Generator TPM	1	unit
	Lead glass 100 x 200 cm	1	pc
	UPS ≥ 30 kVA for Fluoroscopy function	1	unit
	Neonatal to adult ventilator	1	set
	Spesification :		
	Ventilator Mode		
	Control / Assist Control (A/C) / Continuous Mandatory Ventilation (CMV).		
	Synchronized Intermittent Mandatory Ventilator (SIMV).		
	Continuous Positive Airway Pressure (CPAP) / Spontaneous (SPONT).		
	Pressure Support Ventilation (PSV).		
	Bilevel (APRV, BIPAP, BIVENT) with Pressure Support.		
	Tube Compensation (TC).		
	Volume Ventilation Plus - VV+/ (PRVC, VS).		
	Tube Compensation (TC).		
	Proportional Assist Ventilation Plus (PAV+).		
	Respiratory Mechanic (RM).		
	Trending.		
	Leak Compensation (LC).		
	NeoMode.		
	Non Invasive Ventilation (NIV)		
	Mandatory and Spontaneous Breaths Delivery :		
	Pressure Control Ventilation (PCV).		
	Volume Control Ventilation (VCV).		
	Volume Control Plus with volume Ventilation.		
	Pressure Support Ventilation (PSV).		
	Volume Support (VS).		
	Tube Compensation (TC).		
	Proportional Assist (PA).		
40	Ventilator Setting :		
	Tidal Volume: 5 to 2500 ml (with IBW scale).		
	Respiratory Rate: 1.0 to 150 bpm.		
	Peak Inspiratory Flow: 3 to 150 lpm for IBW > 24 kg, 3 to 60 lpm for IBW < 24 kg.		
	Flow Pattern: Square and Descending Ramp.		
	Plateau Time: 0.0 to 2.0 seconds.		
	Inspiratory Pressure: 5 to 90 cmH2O.		
	Pressure Support: 0 to 70 cmH2O.		
	Flow Acceleration %: 1% to 100%.		
	Expiratory Sensitivity: 1% to 80%.		
	Constant during rate change: Inspiratory time (Ti), I:E Ratio or Expiratory time (Te).		
	Inspiratory time: 0.2 to 8.0 seconds.		
	I:E ratio : < 1: 299-4.00 : 1.		
	Expiratory time : >0.2 seconds.		
	Trigger type: Pressure trigger or Flow Trigger (Flow-by).		
	Pressure sensitivity: 0.1 to 20 cmH2O below PEEP.		
	Flow sensitivity: 0.5 to 20 lpm.		
	O2%: 21% to 100%.		
	PEEP: 0 to 45 cmH2O.		
	Apnea ventilation: Apnea mandatory type-volume control (VC) or Pressure control (PC).		
	Apnea flow pattern: Square or Descending ramp.		
	Disconnect sensitivity (Dsens): 20% to 95%.		
	Humidification type: Heat-moisture exchanger (HME), non-heated expiratory tube or heated		

	<p>expiratory tube.</p> <p>Monitored Data :</p> <p>Breath type: Indicates the type (control, assist, or spontaneous) and phase (inspiration or exhalation) of breath being delivered.</p> <p>Delivered O2%.</p> <p>End expiratory pressure.</p> <p>End inspiratory pressure.</p> <p>Exhaled minute volume.</p> <p>Exhaled tidal volume.</p> <p>I:E ratio.</p> <p>Maximum circuit pressure.</p> <p>Mean circuit pressure.</p> <p>Spontaneous minute volume.</p> <p>Total respiratory rate.</p> <p>Rapid Shallow Breathing Index (RSBI).</p> <p>Integral waveform function includes choice of:</p> <p>Pressure time curve, flow time curve, volume time curve, pressure volume loop (one or two waveform curve or one pressure volume loop can displayed at the same time). Pressure volume loop automatically calculates inspiratory area. All waveform can be frozen.</p> <p>Adjustable baseline and vertical / horizontal axis scales.</p> <p>Waveform are automatically displayed and frozen when you press INSP PAUSE or EXP PAUSE. In INSP PAUSE, the calculated values for compliance, resistance are displayed after the inspiratory pause. In EXP PAUSE, the measured values for intrinsic and total PEEP are displayed during and after the expiratory pause.</p>		
	<p>Power Requirements:</p> <p>220-240 VAC/50-60 Hz</p> <p>Internal Battery back up to at least 30 minutes extreme setting.</p>		
	<p>Accessories:</p> <p>unit ventilator : NeoMode, Non Invasive Ventilation (NIV), Tube Compensation (TC), Bilevel, Volume Ventilation Plus (VV+), Proportional Assist Ventilation Plus (PAV+), Respiratory Mechanic (RM), Trending, Leak Compensation (LC).</p>		
	mobile cart/trolley	1	Pcs
	internal battery	1	Pcs
	heated humidifier system	1	Pcs
	adult breathing circuit	2	Pcs
	infant breathing circuit	2	Pcs
	heater wire adapter	1	Pcs
	temperature probe	1	Pcs
	humidifier chamber	2	Pcs
	exhalation filter reusable	2	Pcs
	inspiration filter reusable	2	Pcs
	lung test	1	Pcs
	operating manual	1	Pcs
	flex arm	1	Pcs
	Power cord	1	Pcs
	O2 pressure hose	1	Pcs
	Air pressure hose	1	Pcs
	humidifier mounting bracket	1	Pcs
	Aeroneb AGA Nebulizer	1	Pcs
41	<p>Pasien monitor</p> <p>Spesifikasi</p> <p>ECG Number of Leads: 3- or 5-Lead</p> <p>Lead View: User-selectable</p> <p>Gain Selection: x0.5, x1, x2, and x4</p> <p>Frequency Response:</p> <p>Diagnostic: 0.05 to 100 Hz (-3dB);</p> <p>Monitor: 0.5 to 40 Hz (-3dB);</p> <p>ST: 0.05 to 40 Hz (-3dB)</p> <p>Electrosurgery Protection:</p> <p>Defibrillator Protection:</p> <p>Pacer Detection/Rejection:</p> <p>ST Accuracy:</p> <p>±0.2 mm or ±5% of reading, whichever is greater, over heart range of 30 to 120 bpm</p> <p>ST Range:</p> <p>-6.0 to 6.0 mm</p> <p>NIBP (Non-Invasive Blood Pressure)</p> <p>Technique:</p> <p>Oscillometric measure upon inflation</p>	3	set

Measurement Cycle: < 40 sec. typical Auto. Measurement Cycles: 2, 3, 5, 10, 15, 30 min; 1, 2, 4 hr
Max. Allowable Cuff Pressure: Adult/Pediatric: 300 mmHg; Neonate: 150 mmHg
Range: Adult/Pediatric: 30-300 mmHg; Neonate: 20-150 mmHg
Resolution: 1 mmHg Transducer Accuracy: ±2 mmHg or ±2% or reading, whichever is greater, over full range
STAT Mode: 5 min of consecutive readings Clinical Accuracy: Complies with AAMI SP-10:2002 Pulse Oximetry Range: 1% to 99%
Resolution: 1 %
Accuracy: 70% to 99% range: ±2%; 50% to 69% range: ±3%; < 50%: unspecified Method: Dual wavelength LED Heart (Pulse) Rate
Source: User selectable: Smart, ECG, Pleth, NIBP, IBP
Range: 20 to 300 bpm (ECG, Pleth); 30-240 bpm (NIBP); 30-300 bpm (IBP)
Accuracy: ±1 bpm or ±1% (ECG) whichever is greater Temperature
Channels: 2
Range, Accuracy: 68° to 113°F (20° to 45°C): ±0.1°C Display Resolution: 0,1 derajat
Probe: YSI-400 and YSI-700 Series Respiration
Rate: 6 to 150 bpm (ECG); 2 to 120 bpm (CO2)
Resolution: 1 bpm
Accuracy: ±2 bpm or ±2%, whichever is greater
Source: User selectable: Smart, CO2, ECG CO2
Units: mmHg; %; kPa; Torr
Method: Non-dispersive infrared; autocalibrating N2O Compensation: manual On / off
Range: 0-99 mmHg; 0-12.5%; 0-12.5 kPa; 0-99Torr Resolution: 1 mmHg; 0.1%; 0.1 kPa; 1 Torr Flow, Sample Rate: 200 ml/min
Accuracy: ±2 mmHg; ±0.3 vol. %; ±0.3 kPa; ±2 Torr or ±4% of reading, whichever is greater, at 200 ml/min & respiratory rate of ≤ 120 bpm Rise Time: 170 ms (10-90%) at 200 ml/min
IBP (Invasive Blood Pressure)
Channels: 1 or 3
Transducer Sites: Selectable: ART, PA, LV, RV, LA, RA, CVP, ICP
Pressure Range: -10 mmHg to 300 mmHg
Transducer:

	Freq. Response 0–20 Hz; Impedance >300 ohms; Sensitivity 5µV/V/mmHg Accuracy: ±1 mmHg or ±1%, whichever is greater		
	Alarms Indication: Audible; Visual Silence: Yes; 2 minutes or permanent		
	Trends Memory: 24 hours at 30 second intervals Display: Tabular, Graphical		
	Display Screen: 12.1" active color TFT, with EXTERNAL VIDEO OUTPUT External Monitor display 18,5 inch minimal Waveforms: 6, max Waveform Types: ECG Leads I, II, III, aVR, aVL, aVF, V; CO2; Respiration; Pleth; IBP; breath-by-breath CO2; ST Histograms; Mini-Trends; OXY-CRG Sweep Speed: 6.25, 12.5, 25, or 50 mm/sec		
	Controls Keys: 10; membrane-activated Rotary Knob: Push and rotate; 24 steps/turn System Outputs COM ports: Two RS232-compatible DB9 ports; USB; Ethernet Nurse Call: Contact switch; 3.5 mm stereo phone jack, 14 mm Defib/Sync Video Port: Serial VGA compatible DC Out: 5 VDC output for optional wireless accessory External Module Port: 8-PIN circular connector		
	Printer Type: Thermal line printer Paper Speed: 12.5, 25 or 50 mm/sec Weight approx : 5.4 kg Size: 30.5 cm (H) x 36.8 cm (W) x 29.2 cm (D)		
	Voltage: 100 to 240 VAC; 50/60 Hz		
	Power Consumption: 35 W, typical		
	Battery: 1 sealed lead acid		
	Battery Life: 2 hours with no external modules		
	Recharge Time: 4 to 6 hours, typical		
	Environmental Operating Temperature: 32° to 104°F (0° to 40°C) Storage Temperature: 23° to 122°F (-5° to 50°C) Operating Humidity: 15% to 90%, noncondensing		
	Classification Medical Device: Class II Equipment (IIb EU) Electrical Protection: Class I Equipment Degree of Protection: Type CF, Defibrillator-proof		
	Accessories Included:		
	Pediatric Reusable Pita finger sensor 3 ft	1	Pcs
	NIBP Cuff Neonate 3-6cm (pkg of 10)	1	pkg
	NIBP Cuff Neonate 7-13cm (pkg of 10)	1	pkg
	NIBP Cuff Neonate 8-15cm (pkg of 10)	1	pkg
	NIBP Hose - 4 ft. Straight for Neonates - QC	1	PCs
	NIBP Cuff Child (Pkg. of 10)	1	pkg
	NIBP Hose - 4 ft. Straight - QQ	1	Pcs
	NIBP Cuff for child/small adult Blood pressure cuff 18-26cm	1	Pcs
	IBP Connectors (Set of 4)	1	pkg
	SpO2 Neonatal disposable probes 25/pkg	1	pkg
	SpO2 Infant Disposable Sensors (Box of 25)	1	pkg
	SpO2 Pediatric Disposable Sensors (Box of 25)	1	pkg
	3 Lead Cable - DIN Style .060	1	Pcs
	Neo/Ped ECG Cables & Leadwires Disposable 3 Lead Pre-wired	1	pkg
	Electrodes DIN Style .060 (Case of 100)		
	Hydrophobic Disk Filter (Pkg. of 25)	1	pkg
	Rectal/Esophageal Temperature Probes REUSABLE	2	pcs
	Skin Surface temperatur Probe	1	Pcs
	Temperature Interconnect Cable	1	Pcs
	Genuine TROLLEY	1	Unit
42	Elektronik Video Endoscopy system spesifikasi :	1	Set

<p>Video Proesor & Light Source Specification: VIDEO PROCESSOR Digital Output : DVI Analog Output : RGB(2) : SDTV (NTSC / PAL) Y/C(2) : SDTV (NTSC / PAL) Composite : SDTV (NTSC / PAL) Color Adjustment : Black, Red, Green, Blue, R-Hue, Chroma Detail : Hi, LO: 9 settings Contrast (Gamma) :adjustable BLV : Hi, Mid, Lo, Off Picture in Picture Auto Gain Control,Iris,image Zoom,lamp rate value Min. 150W Xenon lamp (Emergency lamp 75W Halogen lamp) Brightness control Lamp cooling method : Force air cooling Air supply pump : Hi,Low,Off Power Supply : AC 120 V 60Hz / 230 V 50Hz Dimension : 375 x 190 x 495mm Weight : 17 Kg Standard Accessories: DVI Cable Power Cord Data Keyboard</p>		
<p>Video Gastroscope Specifications : Viewing direction : Forward Observation range : 4"100 mm Field of view : 140 derajat Distal end diameter : 9,4 mm Flexible portion diameter : 9,3 mm Bending capability: Up / Down : 210 derajat / 90 derajat Right / Left 100 derajat / 100 derajat Forceps channel diameter 2,8 mm Working length : 1.100 mm Total Length : 1,400 mm Standard Accessories: Biopsy Forceps Channel Cleaning brush Forceps Valve Rubber (FOV-DV1) Washing adapter (CA-300) Silicone Oil Lens Cleaner S Connector Cap Ventilation Adapter EVE Waterproof Connector Cap Flexible Adapter Carrying Case Operation Manual Maintenance Manual</p>		
<p>Video Colonoscope Specifications : Viewing direction : Forward Observation range : 3"100 mm Field of view ; 140 derajat Distal end diameter : 12.8 mm Flexible portion diameter : 12,8 mm Bending capability: Up / Down 180/180 derajat Right / Left : 160/160 derajat Forceps channel diameter : 3,8 mm Working length : 1,690 mm Total Length ; 1,990 mm Standard Accessories: Biopsy Forceps Channel Cleaning brush Forceps Valve Rubber (FOV-DV1)</p>		
<p>DVI Cable Power Cord Data Keyboard</p>	<p>1 1 1</p>	<p>Pcs pcs unit</p>
<p>Biopsy Forceps Channel Cleaning brush Forceps Valve Rubber (FOV-DV1) Washing adapter (CA-300) Silicone Oil Lens Cleaner S Connector Cap Ventilation Adapter EVE Waterproof Connector Cap Flexible Adapter Carrying Case Operation Manual Maintenance Manual</p>	<p>1 1 1 1 1 1 1 1 1 1 1 1</p>	<p>Pcs pcs pack set Btl btl pcs pcs pcs pcs pcs pcs pcs</p>
<p>Biopsy Forceps Channel Cleaning brush Forceps Valve Rubber (FOV-DV1)</p>	<p>1 1 1</p>	<p>Pcs pcs pack</p>

Washing adapter (CA-300)	1	set
Silicone Oil	1	Btl
Lens Cleaner	1	btl
S Connector Cap	1	pcs
Ventilation Adapter	1	pcs
EVE Waterproof Connector Cap	1	pcs
Flexible Adapter	1	pcs
Carrying Case	1	pcs
Operation Manual	1	pcs
Maintenance Manual	1	pcs

<p>LCD Monitor</p> <p>Picture Performance</p> <p>LCD panel : a-Si TFT Active Matrix</p> <p>Picture size</p> <p>334 × 200, 390 mm (W/H, Diagonal)</p> <p>(13 1/4 × 7 7/8, 15 3/8 inches)</p> <p>Resolution : 1280 × 768 dots (WXGA)</p> <p>Viewing angle : Viewing angle 88°/ 88°/ 88°/ 88° (typical)</p> <p>Scan : Normal 0%, Over 5%</p> <p>Aspect 15 : 9</p> <p>Display color : 16770000</p> <p>Input/output connectors</p> <p>Input</p> <p>LINE A input connectors</p> <p>Y/C input : Mini DIN 4-pin (1)</p> <p>VIDEO input : BNC (1), 1 Vp-p ±3 dB, negative synchronization</p> <p>AUDIO input : Phono jack (1), -5 dBu 47 kilo ohms or higher</p> <p>RGB/COMPONENT input connectors : BNC</p> <p>RGB input : 0.7 Vp-p ±3 dB, (Sync On Green, 0.3 Vp-p negative sync.</p> <p>Component input : 0.7 Vp-p ±3 dB, (Sync on Y, 0.3 Vp-p negative sync</p> <p>AUDIO input : Phono jack (1), -5 dBu 47 kilo ohms or higher</p> <p>OPTION IN connector : D-sub 9-pin (1), female</p> <p>OPTION AUDIO IN connector : Phono jack (1), -5 dBu 47 kilo ohms or higher</p> <p>External synchronized input : BNC (1), 0.3 to 4 Vp-p negative polarity binary connector</p> <p>HDMI IN connector : HDMI</p> <p>PARALLEL REMOTE input connector</p> <p>Parallel remote : Modular connector 8-pin (1)</p> <p>Output</p> <p>LINE A output connectors</p> <p>Y/C output :</p> <p>Mini DIN 4-pin (1), Loop-through, with 75 ohms automatic terminal function</p> <p>VIDEO output</p> <p>BNC (1), Loop-through, with 75 ohms automatic terminal function</p> <p>AUDIO output : Phono Jack ,Loop Through</p> <p>RGB/COMPONENT output connectors</p> <p>RGB/Component output</p> <p>BNC (3), Loop-through, with 75 ohms automatic terminal function</p> <p>AUDIO output : Phono Jack ,Loop Through</p> <p>External synchronized output : BNC (1), Loop-through, with 75 ohms automatic connector : terminal Function</p> <p>Built-in speaker output mono</p>		
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<p>General</p> <p>Power : AC 100 V to 240 V, 50/60 Hz</p> <p>Power consumption : Maximum: approx. 40 W, 0.6 A to 0.4 A</p> <p>Dimensions (w/h/d)</p> <p>Approx. 372 × 336 × 264 mm (14 3/4 × 13 1/4 × 10 1/2 inches) (not including the projection parts)</p> <p>Mass : Approx. 6.2 kg (13 lb 11 oz)</p> <p>Temperature : 0 °C to 35 °C (32 °F to 95 °F)</p> <p>Recommended temperature : 20 °C to 30 °C (68 °F to 86 °F)</p> <p>Humidity : 30 % to 85 % (no condensation)</p> <p>Pressure : 700 hPa to 1060 hPa</p> <p>Storage and transport conditions</p> <p>Temperature : 0 °C to 35 °C (32 °F to 95 °F)</p>		
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Humidity : 0 % to 90 %
Pressure : 700 hPa to 1060 hPa

Software include:
Recording Module: Photo
Archiving Module
Reporting Module
Display and Photo Editing suite
CD Migrator

hardware include:
1 Grabber Card, 1 S-Video cables, 1 Composite video cables,
1 Dongle key with Software CD, 1 Foot pedal and connecting cables.

Air Leakage Tester
Pressure setting : Manual
Normal Pressure : 18,5 - 22,5 kPa
Max Pressure : 40 kPa

Water Tank : 250 ml

Portable SuctionUnit
Specifications:
Pump : Diaphragm
Electric Power : AC mains 50 / 60 Hz
Motor : single - headed, single phase, induction motor, 20 W
Max Vacuum Pressure : '-73.3 kPa and / or over (-55.0 cmHg and / or over)
Max Vacuum Capacity : 10 L/ min and / or over at air (pump ability)
Suction Bottle Capacity : min 1500 mL

UPS
Input
2000 VA
100VAC, 110VAC, 120VAC, 220VAC, 230VAC
240VAC, ±25%
50Hz/ 60Hz±1%±2%±3% (Selectable)
Output
Automatically increase output voltage 10%
above input voltage of Nominal
100VAC, 110VAC, 120VAC, 220VAC, 230VAC
240VAC, ±25%
50Hz/ 60Hz±0.5%
4ms - 8ms (typical)
Socket ; NEMA 5-15R OR iec 4
Battery : SLA MF 48 VDC
Protection
40 Joules, Over 2ms (110VAC); 80 Joules, Over 2ms
Fuse for overload & short circuit protection
UPS Automatic Switch for city power & Battery
UPS Automatic Shutdown if Overload over 110% of
Nominal at 60 sec and 130% at 5 sec.
UPS output Cut off Immediately and input fuse protection
Alarm
Slow Beeping Sound (per 4 sec) Alarm Reset function
Rapid Beeping Sound (per 1sec)
Continue Beeping Sound
Equipment
Modem/Network
Interface
Green Mode
Environment
<5000 meter
0°C ~ 50°C
0% ~ 90% (Non Condensing)
<40dB (1 Meter from Surface)

Local Endoscope Trolley
Specification :
Dimension : 510 x 610 x 1400 mm
Weight : 78 Kg
Material : steanlees

Local Endoscope keeper

Water Jet
Power supply : 120V/230V
Power consumption rated : 0.20A/0.12A

	<p>Fuse : T500mA/250Vx2 Aperation method : Turn on/off a foot switch Flow rate adjustment : Unstepped continuously variable Dimensions (WXHxD) : 240X215X315mm(with standard accessories) Mass : 2.9kg</p> <p>Accessories upper Gastrointestinal Endoscopes Grasping Forceps Aligator Jaw for Gastroscopy Basket Complete with handle</p> <p>Accessories Colonoscope Grasping Forceps Aligator Jaw for Colonoscopy Basket for Colon Grasping Forceps Three Prong Complete with handle Six shooter Ligature rings</p>		
43	<p>Neonate & Pediatric Ventilator with High Frequency Oscillation</p> <p>Features Intuitive, user-guiding operation concept Optimum monitoring All pressure-controlled ventilation modes</p> <p>High-frequency oscillation Ergonomic, innovative design</p> <p>The intuitive operating concept All settings can adjusted with just one single rotary knob. The intuitive operating concept guides the user systematically through the ventilation menu. Only those parameters relevant to the chosen ventilation form are visible and can even adjusted easily to the patient's needs before starting ventilation. Efficient monitoring permits safe supervision at all times</p> <p>High-frequency oscillation The unit is a ventilator that combines hig-frequency oscillation and conventional ventilation strategies in one machine. The HFOV which is available by pressing a button can be carried out without any delay or need to change the patient tubes. The integrated heated humidifier avoids any additional compressible volumes that would reduce the HFOV performance.</p> <p>Technical data</p> <p>Operating Modes Pressure controlled : Linear, Sinus, Square Wave Switchable : Volume limitation Ventilation Modes IMV: HFO Assist controlled : ITT (PSV) SIMV : ITT (PSV) CPAP : with/without Backup HFO</p> <p>Parameter</p> <p>Operating unit Pmax : 5 - 60 mbar PEEP : 0 - 30 mbar Temperature : 30 - 40°C Inspiration time : 0,1 - 2 s Expiration time : 0,2 - 60 s, 0,2 - 60 s FiO2 : 21% - 100%</p> <p>Triger Flow : 0,1 - 2,9 l/min Pressure : 0,1 - 2,9 l/min High-frequency oscillation Inspiration portion : 33 ... 50% Frequency : 5 ... 15 Hz (300 ... 900/min) Amplitude : 0 ... 100% Patient component - Built-in Humidifier Safety pressure : 40 - 120 mbar Humidifier bottle : 350 ml Pre-Oxygenation adjustable (max. 7 min) : 21% - 100% O2 Monitoring</p>	1	set

	Display : 10,4" Farb-TFT Pressure : Pmax, Pmean, PEEPPmax, Pmean, PEEP Volume : MV, Vte, Vti, Vleak, Vo Respiration frequency Inspiration part FiO2 Respiration gas temperature Resistance Compliance Graph display : P(t); V(t); V'(t); V(p); V'(V); V'(P); Scaling; Measure function Supervision Alarms : Visual; audible; Clear text message Pressure : Pmax, Pmean, PEEP Volume : MV, Vte FiO2 Respiration gas temperature Apnea Data outputs : RS 232 Sensors Flow/Volume : Pneumatochograph Type B to 10 l/min Type C to 22 l/min FiO2 : elec. Chem. Oxygen cell Temperature : Temperature sensor proximal distal Power supply Mains : 90-264 V AC, 50-60 Hz, 150 VA Battery : 24 V DC, approx 30 min Gas Supply AIR : 3 - 6 bar + 0,5 bar O2 : 4 - 6 bar + 0,5 bar General information MPG Class : II b Medical Devices Law (German abbreviation) Dimension (WxHxD) : 395 x 330 x 350 mm Weight : 23 kg Neonatal Ventilation system with High-Frequency Oscillation (HFO) Patient component P7 Heated, regulated patient tube system P7 Neonatology - Type B, 0 - 12 L Temperature sensor P7 Membrane dryer for gas inlet block with gas blender protection Pneumatic medication nebulizer set Mobile stand Drawer system-single Ventilation mask silicone children Size 0 Size 1 Size 2 Size A Size B Size C Hose adapter for nasal tubing (autoclavable) Self-filling ventilation bag silicone with ventilation mask Testing lung pediatric, with tubing adapter (silicone) O2 (hose colour : white) Air (hose colour : black and white)		
		1	unit
		1	unit
		1	pc
		1	pc
		1	pc
		1	pc
		1	pc
		1	pc
		1	unit
		1	pc
		1	pc
		1	pc
		1	pcs
		2	pcs
		2	pcs
		2	pcs
		4	pcs
		1	pc
		1	pc
		1	pc
		1	pc
44	INFANT FLOW SIPAP COMPREHENSIVE Spesifikasi : Simple Touch screen Operation facilitating ease of use Display of Pressure/ Time Graphics and alarm setting Clear presentation of data patient Improved patient triggering Integrated Power supply Up to 2 hours backup battery Power MODES NCPAP	1	set

	<p>Biphasic Biphasic tr</p> <p>CONTROLS NCPAP : 0 - 15 L/min Pres Low Flow Meter Press High Flow meter : 0 – 5 L/min %O2 : 21 – 100% Inspiratory Time : 0.1 – 3.0 sec Rate : 1 – 120 bpm , 1 – 54 bpm Back up rate : 1 - 80 bpm Apnea time : 10 – 30 sec</p> <p>MONITORED PARAMETERS NCPAP : 0 - 15 cmH2O MAP : 0 – 15 cmH2O PIP : 0 – 15 cmH2O PEEP : 0 – 15 cmH2O %O2 : 21 – 100 %</p> <p>Power supply 101 - 230 VAC : consumption 50 VA maximum 12 VDC (sealed lead acid Battery) - 2 hours life with full charge Dimension / weight (driver only) Dimensions : 26 cm x 38 cm x 23.5 cm Weight : 8.8 Kg</p>		
45	<p>Full Automatic Liquid Base Cytology equipment Teknologi : Sel attachment use air pressure teknologi Full otomatic procedure form begin to end speed proces slide : 26-30 det slide capasicity : 120 slide/jam Sampling Aplication : Cervical Cancer (sample) Lung Cancer (Sputum) Kidney, Bladder, Urethra Cancer (Urine) Body Fluid & Other Cytological Cancer (Brush / FNA) Metodh automatic blowing in liquid reagen Diameter slide (<i>smear on slide</i>) : 20mm automatic Supply of alkohol Build-in 1 liter alcohol container Build-in automatic robotic filter supply system saving filter unit: 50 filter Driving part touch screen <i>Operating switch</i> <i>Cairan preservative : Ethanol base</i> Vial clip <i>robotic cap opener</i> <i>Suction</i> <i>Slide insert area</i> <i>Blower</i> Ukuran membran filter : 32mm x 9mm x 29mm (WxHxD) Dimensi (mm) Main Body : 590(W) X 530(H) X 420(D) Sub Body : 575(W) X 450(H) X 570(D) Berat (kg) Main Body : 54 Sub Body : 65 Sumber Listrik : AC 220V 50/60Hz Konsumsi listrik : 2KW Kondisi lingkungan Operation : Temperature 0~50°C Humidity : Kurang dari 85% RH Storage Temperature : -10 ~ 60°C Humidity : Kurang dari 85% RH</p>	1	set
46	<p>Continuous Rapid Tissue Processor Specification : Throughput : Up to 50 specimens per hour Dimension : approx. 85 x 71 x 163 cm (WxDxH) Power : AC 220 ± 10% 50/60 Hz, 20 Amp</p>	1	set

	<p>Weight : approx. 280 kg</p> <p>Retorts Load Station : 1 station Microwave station :1 retorts Vacuum station :2 retorts Processing time : 80 (standard) or 160 (extended) minutes</p> <p>Capacity Continuous loading :Up to 40 cassettes every 40 minutes Unloading capacity :Up to 40 cassettes Processing time :approx. 80 minutes (standard) or 160 minutes (extended) Display : approx. 800 x 600 pixel color & touch screen LCD display Temperature ranges Microwave stations :approx. 61 °C ± 2 °C Vacuum station :approx. 65 °C ± 2 °C</p> <p>Software : Process monitor screen Manual & auto start Reagent management system w/ counter for cassette or runs standard (1 hr) or extended (2 hrs) program Language : English, French, German, Italian, Spanish, Japanese Sound selection :7 alarm sounds & 7 “end of process” message Passwords :1 service, 4 administrators, 20 operator Robotic system : One robotic arm moving from station to station in the X – Y plane , with automatic opening and closing of the station lids Display size :approx. 26,7 (diagonal) Indicator light :Power on , auto start/ shutdown, system status Data interface : LAN connection, USB port, automatic & demand printouts, import/export to external PC Diagnostic function : Self diagnostic, error message & codes, error list & log PC Conection Complete with :Reagent set and Molecular Fixative</p>		
47	<p>Operating Table Specifications Dimension Aprox Length: 2050 mm Widht 654 mm Weight: 125 kg Max. load: 160 kg Adjustment Head rest – 40...+ 25° Trendelenburg –25°, anti-Trendelenburg +18°, gas spring-assisted Leg section – 90...+ 4°, gas spring-assisted Back section – 4...+ 70°, gas spring-assisted Lateral tilt ±15°, gas spring-assisted Height 650–1020 mm, hydraulically with foot pedals Table top/column/base 4 section Fixed back and seat sections Leg and head sections detachable Top plate of X-ray translucent high pressure laminate X-ray cassette rails along the full length of the surgical surface Soft antistatic, 70 mm separate mattress set fixed to the table with velcro tapes Accessory rails of stainless steel Casings of shock-resistant ABS plastic Antistatic castors Ø 150 mm, washable, swivelling twin-castors, central locking device pedal Accessories Shoulder supports Side supports Anesthetic screen Knee crutches Arm rests Oxygen bottle holder Wire utility basket Bowl with screen and drainage Side rails, folding and detachable</p>	1	Set
48	<p>Neuroendoscope Spesifikasi :</p>		

MINOP TROCAR 150MM 1 WKING CHANNEL 3.2MM	1	Pcs
MINOP TROCAR 150MM 3 WKING CHANNEL4.6MM	1	Pcs
MINOP TROCAR 150MM 4 WKING CHANNEL6.0MM	1	Pcs
MINOP ANG ENDOSCOPE 30DEG 180MM 2.7MM	1	Pcs
MINOP MICRO SCISSORS B/B 2/265MM	1	Pcs
MINOP BIOPSY FORCEPS 2/255MM	1	Pcs
MINOP FIXATION & DISSECTING FCP 2/255MM	1	Pcs
MINOP SURGICAL MICRO FORCEPS 2/265MM	1	Pcs
MINOP MONOPOL HOOK ELECT 2.1MM DIA 255MM	1	Pcs
MINOP MONOPOL NDL ELECT 1.1MM DIA 255MM	1	Pcs
MINOP MONOPL HK ELECT 70DG2.2MM DIA255MM	1	Pcs
MONOPOLAR HF CABLE 3.5M LONG	1	Pcs
MINOP BIPOLAR FORK ELECTRODE 2.1MM	1	Pcs
MINOP TREND - Endoscopic Ptuitary Surgery		
MINOP TREND IRRIG./SUCTION TUBE F/FH615	1	pcs
MINOP TREND IRRIG.SUCT.SHEATH 30°D:6MM	1	pcs
MINOP TREND TRANSNAS.IRRIG./SUCT.HANDLE	1	pcs
MINOP TREND OPTIC 30°STR.D:4MM 195MM	1	pcs
MINOP TREND ADAPTER F/HOLD.ARM AND FH615	1	pcs
LANDOLT SCALPEL HANDLE 210MM	1	pcs
STERILE MICRO BLADES MINI #11	1	pcs
STERILE MICRO BLADES MINI #15	1	pcs
SURGICAL SCISSORS STR S/B145MM	1	pcs
TOENNIS-ADSON SCISSORS DEL CVD175MM	1	pcs
GERALD TISSUE FCPS STR 1X2 175MM	1	pcs
GRUENWALD FORCEPS BAYO SERR 200MM	1	pcs
FOERSTER SPONGE FCPS SERR STR 242MM	1	pcs
LANDOLT TUMOR FORCEPS BLUNT 9MM200MM	1	pcs
YASARGIL RONGEUR STR D:3.5/190MM	1	pcs
TREND CUERETTE NICOLA BAYONET D:6.5MM	1	pcs
TREND ENUCLEATOR HARDY BAYONET	1	pcs
TREND CURETTE HARDY BAYONET D:4MM	1	pcs
TREND CURETTE HARDY BAYONET D:4MM	1	pcs
TREND CURETTE HARDY BAYONET D:6MM	1	pcs
TREND CURETTE HARDY BAYONET D:6MM	1	pcs
TREND HOOK LANDOLT-REULEN BAY.D:1.7MM	1	pcs
LANDOLT RASPATORY D:3.2/260MM	1	pcs
BONE RASPATORY 8MM #2 165MM	1	pcs
SUCTION TUBE TAPERED TEARDROP 7FR 205MM	1	pcs
Bayonet Instruments		
YASARGIL MICRO SCISSBAYOCVD/BL 225MM	1	Pcs
YASARGIL MICRO SCISSORS STR185MM	1	Pcs
YASARGIL MICRO FORCEPS	1	Pcs
YASARGIL MICROFORM BAYO FRCPS1X2180MM	1	Pcs
YASARGIL NEEDLE HOLDERBAYOUP-CVD200MM	1	Pcs
Micro Suction		
MICRO SUCTION SETW/SPECIAL CUT-OFF ADAP	1	Pcs
SUCTION TUBE TAPERED TEARDROP 3FR 180MM	1	Pcs
Straight Instruments		
MICRO-NEEDLE HOLDER W/CATCH CVD 150MM	1	Pcs
MUELLER MICRO-FORCEPS 1.2MM TRI111MM	1	Pcs
MICRO-SCSRFLT-HDL/CROSS-SERSTR160MM	1	Pcs
RND BODY SUTURE FORCEPSSTR0.3MM150MM	1	Pcs
Dissector, Rasparatory, Nerve Hook		
KRAYENBUEHL NERV HKSHRTBALL-TIP184MM	1	Pcs
MICRO DISSECTOR UP-CVD 230MM	1	Pcs
MICRO RASPATORY RND-BLD LRG 229MM	1	Pcs
MICRO HOOK BLUNT230MM	1	Pcs
MICRO DISSECTOR STR230MM	1	Pcs
VASCULAR SPATULA230MM	1	Pcs
MICRO DISSECTORSMALL230MM	1	Pcs
MICRO SCOOP STR SHARP229MM	1	Pcs
MICRO SCOOP ANG SHARP 229MM	1	Pcs
MICRO RASPATORY RND-BLD SM229MM	1	Pcs
Scarpal Tunnel		
KERRISON 130DG-UP 3MM 180MM	2	Pcs
VOLKMANN BONE CURETTE #1 6.8MM 172MM	1	Pcs
VERBRUGGE-MUELLER RETRACTOR44MM	1	Pcs

KERRISON THIN-FT 130DG-UP 2MM 180MM	1	Pcs
SCALPEL HANDLE #3	1	Pcs
BAILEY RIB SPREADER/CONTRACTOR 150MM	1	Pcs
SEMB BONE-HOLDING FCPS8MMW/RCHT191MM	1	Pcs
AUFRICHT RASP PUSH-CUT 9MM 217MM	1	Pcs
FOWLER TONSIL KNIFE215MM	1	Pcs
GRUENWALD FORCEPS BAYO SERR 200MM	1	Pcs
HEGAR UTERINE DILATOR 11+12MM 195MM	1	Pcs
BAKES BILE-DUCT DILATOR 3MM	2	Pcs
WEITLANER RETRACTOR 3X4T.SH.130MM	1	Pcs
WEITLANER RETR 3X4T.SHARP/DEEP130MM	1	Pcs
ADVANCE BASIC UNIT INSTRUMENTS		
Full HD Camera System		
3 CHIP FULL HD CAMERA WITH ZOOM	1	Unit
CCD (Inch):3 x 1/3"		
Camera Resolution;1920 x 1080 pixel		
Scan Mode;Progressive Scan 60 Hz		
Modes5 Presettings		
:3 User Settings		
Video Signal Outputs:DVI-D 1080p (60 Hz)		
:HD-SDI 1080i, 720p (60 Hz)		
:HD-RGB 1080i, 720p (60 Hz)		
:S-Video NTSC		
:Video (composite) NTSC		
Buttons on Camera Head :2 (6 functions)		
Shutter Speed:1/50 - 1/10 000 s		
Zoom coupler (w x h x d):Optical (18 - 45 mm) & digital 2x		
Colour Bars:Yes		
Dimensions Camera Head w/o		
Zoom coupler (w x h x d):40 x 53 x 75 mm		
Dimensions CCU (w x h x d):305 x 89 x 305 mm		
weight CCU :140 g		
Weight Camera Head w/o zoom		
Length Camera Cable:3 m		
On-screen Display:Yes		
Power Supply;100-240 V AC, 50-60Hz		
Maximum Power Consumption:45 VA		
IEC320 POWER PLUG AND CORD 1M	1	Pcs
Xenon Light Source 300 watt		
FIBER OPTIC LIGHT CABLE 4.8MM 3.5M LONG	1	Unit
IEC320 POWER PLUG AND CORD 1M	2	Pcs
24" Full HD Flat Panel Display	1	Unit
Panel Quality:with anti-reflection		
Viewable Diagonal (Inches);24"		
Resolution (Pixel):1920 x 1200 (Full-HD)		
Viewing Angle:1780/1780		
Aspect Ratio:'16 : 10		
Contrast Ration':700 : 1		
Supported Colour Systems:PAL, NTSC		
Video signal inputs:DVI		
:SDI/HD-SDI		
:RGB/HD-RGB (4 x BNC or HD-15)		
;S-VHS (DIN-4 and 2xBNC)		
;Composite (BNC)		
;VGA (HD-15)		
Video Signal outputs: DVI (DVI-D)		
SDI/HD-SDI (BNC)		
RGB/HD-RGB (4 x BNC or HD-15)		
S-VHS (DIN-4 and 2xBNC)		
Composite (BNC)		
Control inputs:RS-232 (DB-9)		
Power input:24 V DC (low voltage)		
FOOT F/15"&19" FLAT SCREEN MONITOR	1	Unit
IEC320 POWER PLUG AND CORD 1M	2	Pcs
Advance Trolley System		
ENDOSCOPY TROLLEY Lokal	1	Unit
Cleaning brush		
STERILIT OIL SPRAY 300ML	1	Pcs

	<p>Athroscopy</p> <p>Spesifikasi :</p> <p>True High Definition (HD) Camera Controller 1080 progresif</p> <p>High Definition (HD) Camera Head (Autoclavable)</p> <p><i>Features:</i></p> <p>720p, 1080i, 1080p Selectable</p> <p>Multiple digital outputs</p> <p>Light source communication</p> <p>Electronic zoom</p> <p>Autoclavable Camera Head</p> <p>prism mounting</p> <p>Light up card edge receptable</p> <p>Remote button Fuctions for Printer</p> <p>DVI-I Cable, Remote Cable, Power Cable</p> <p>Xenon Light Source 300 Watt</p> <p><i>Features:</i></p> <p>Bulb Indicator Window</p> <p>Automatically adjust to optimal light intensity</p> <p>Auto Bulb saver function</p> <p>Stand by Mode</p> <p>Homogenized Light distribution</p> <p>Light Guide Locking Mechanism</p> <p>OLED Window</p> <p>Medical Grade 26" High Definition (HD) LCD Monitor</p> <p><i>Features:</i></p> <p>HD 1080p with 1920 X 1200 resolution</p> <p>26" Wide HD LCD Monitor</p> <p>Sealed front panel with a protective coating for improved durability</p> <p>Lightweight and modern design with a universal VESA mount</p> <p>Wide-screen 16:10 aspect ratio</p> <p>PIP functionality</p> <p>Swivel 180^o, Tilt 15^o</p> <p>Medical Grade Monitor</p>	1	set
		1	Pcs
		1	Pcs
		1	Pcs
		1	Pcs
		1	Pcs
49	<p>Digital Color HDD DVD Recording</p> <p>Video recording to upscale standard format signals up to 1080p for High Definition Screens</p> <p>Record video to either Hard Disc or DVD-R Dual Layer disc</p>	1	Pcs
	Trolly Lokal	1	Pcs
	<p>Power & Pump System</p> <p>All-in-One Power Console</p> <p><i>Features:</i></p> <p>One console operates all electric handpieces</p> <p>Wide application : Arthroscopy, Large Bone Orthopedics, Small Bone Orthopedics, Spine Surgery, ENT, Trauma, Neurosurgery, Oral/Maxillofacial Surgery</p> <p>The maximum rpm reaches to 12,000 rpm</p> <p>System provides optimum power, precision, and control</p> <p>Voice Command function</p>	1	Pcs
	<p>Arthroscopy Shaver</p> <p><i>Specification:</i></p> <p>Bi-directional Blade Insertion</p> <p>Window Indexing</p> <p>Smooth Parylene Coated Cord</p> <p>Operating Speed</p> <p>500 - 12,000 rpm, F/R</p> <p>300 - 2,500 cpm, Single & Multi-turn Oscillate</p> <p>Torque : 35 in. oz. (nominal)</p> <p>Length : 6.1 in. (15.5 cm)</p> <p>Diameter : Approx. 1.125 in. tear drop (3.2cm)</p> <p>Weight : 17.8 oz. (505 g)</p> <p>Cord Length : 10 ft. (3.0m) Non- detachable</p>	1	Pcs
	Full-Radius Resector, Large Hub, 4.2mm (6 per box)	1	Pcs
	Oval Bur, Lage Hub, 4.0mm (6 per box)	1	Pcs
	Great White Recipro Blade, 4.2mm (6 per box)	1	Pcs
	Ablator 90 ^o , 3.2x150mm	1	Pcs
	<p>Pump System</p> <p><i>Features:</i></p> <p>Intuitive one-step / one-hand cassette loading</p>	1	Pcs

Quick setup and priming		
High flow		
User Friendly Pump		
Can be used in Arthroscopy & Laparoscopy		
<i>Specification:</i>		
Flow maximum : 2000ml/min		
Set pressure : Maximum 150 mmHg		
Weight : 7 pounds		
Dimensions aprox: 16.5 cm(H) x 20.3 cm(D) x 19.7 cm(W)		
Voltage : 90-240 V		
Arthroscopy Tubing	10	Pcs
Remote Hand Control (Autoclavable)	1	Pcs
Arthroscope (Autoclavable)		
HD Quick Latch 4mm Scopes 30 ⁰ (Autoclavable)	1	Pcs
HD Quick Latch 4mm Scopes 70 ⁰ (Autoclavable)	1	Pcs
5.5mm Arthroscopy Sheath w/Double Stopcock (Autoclavable)	1	Pcs
5mm Universal Light Guide Blue, 10', Liquid (Autoclavable)	1	Pcs
Scope fitting (Autoclavable)	1	Pcs
Tray for Video Products (Autoclavable)	1	Pcs
Manual Instruments for Arthroscopy		
Thorne Attachment	1	Pcs
Arthroscopy Probe	1	Pcs
Microfracture Awl, 30°	1	Pcs
Micro Scissors 3.4mm Straight	1	Pcs
Aggressor Forceps 3.4mm Straight	1	Pcs
Linear Wide Bite Punch 15 ⁰ Up	1	Pcs
Linear Alligator Grasper 3.3mm, 2.7mm Tip	1	Pcs
90 ⁰ Punch Forcep 3.4mm, Right	1	Pcs
90 ⁰ Punch Forcep 3.4mm, Left	1	Pcs
Manual Instrument Case Basic Set	1	Pcs
Knee ACL		
Femor Guide 5mm Offset	1	Pcs
Femor Guide 6mm Offset	1	Pcs
Anatomic Femoral Footprint Guide, 6.0mm	1	Pcs
Anatomic Femoral Footprint Guide, 7.0mm	1	Pcs
Anatomic Femoral Footprint Guide, 8.0mm	1	Pcs
Pinn ACL Cruciate guide	1	Pcs
Graft Preparation Table	1	Pcs
Preparation Table Slide Lock	2	Pcs
Preparation Table Graft Clamp	2	Pcs
Preparation Table Suture Holder	1	Pcs
Preparation Table Tension Clamp	1	Pcs
Preparation Table BTB Holder	1	Pcs
Preparation Table Drill Guide	1	Pcs
Preparation Table Scraping Board	1	Pcs
Autoclavable Case for ACL	1	Pcs
Graft Sizing Block	1	Pcs
6.0mm Mono-Fluted Drill Bit	1	Pcs
7.0mm Mono-Fluted Drill Bit	1	Pcs
8.0mm Mono-Fluted Drill Bit	1	Pcs
9.0mm Mono-Fluted Drill Bit	1	Pcs
4.0mm 15Deg Convex Rasp	1	Pcs
Cupped currette, 4mm	1	Pcs
Graft Passing Guide Pin	1	Pcs
9" High-Strength Guide Pin, 2.4mm	5	Pcs
14" High-Strength Guide Pin, 2.4mm	5	Pcs
Tendon Stripper	1	Pcs
Cannulated Bit 5mm	1	Pcs
Graft Holder	1	Pcs
El Depth Probe	1	Pcs
Universal Driver, Modular	1	Pcs
Ratcheing Handle	1	Pcs
Bioscrew Guidewire	5	Pcs
PCL-Pin Sleeve	1	Pcs
PCL Guide Arm	1	Pcs
PCL Curved Rasp	1	Pcs
PCL Curved Currette, 4mm	1	Pcs
ACL Reconstruction Tray	1	Pcs

	Implant		
	Interference Screw 7mm*25mm	1	Pcs
	Interference Screw 8mm*25mm	1	Pcs
	Interference Screw 9mm*25mm	1	Pcs
	Interference Screw 8mm*35mm	1	Pcs
	Interference Screw 9mm*35mm	1	Pcs
	15mm Continuous Loop Implant	1	Pcs
	20mm Continuous Loop Implant	1	Pcs
	25mm Continuous Loop Implant	1	Pcs
	30mm Continuous Loop Implant	1	Pcs
	Power Tool		
	Single Trigger Modular Handpiece	1	Pcs
	Universal Cable (Handpiece cord)	1	Pcs
	1/4" Jacobs Chuck Attacment	1	Pcs
	Shoulder Arthroscopy		
	Manual Instruments for Shoulder Arthroscopy (Autoclavable)		
	Katana suture cutter	1	Pcs
	Crochet Hook	1	Pcs
	Knot Pusher	1	Pcs
	Switching Stick 3.0mm O.D. x 14"L	1	Pcs
	Liberator Knife II	1	Pcs
	Suture Retrieval Forceps, 3.4mm	1	Pcs
	Suture Passing System (Autoclavable)		
	Spectrum II Handle	1	Pcs
	Spectrum II Sterilization Tray	1	Pcs
	Suture Hook 45 Deg Right	1	Pcs
	Suture Hook 45 Deg Left	1	Pcs
	Suture Hook 60 Deg Right	1	Pcs
	Suture Hook 60 Deg Left	1	Pcs
	Suture Hook 90 Deg Right	1	Pcs
	Suture Hook 90 Deg Left	1	Pcs
	Suture Hook CorkScrew Right	1	Pcs
	Suture Hook CorkScrew Left	1	Pcs
	Suture Hook Straight	1	Pcs
	Suture Hook Crescent Small, 3.0 x 15.0 mm	1	Pcs
	Suture Hook Crescent Medium, 4.0 x 20.0 mm	1	Pcs
	Suture Hook Crescent Large, 6.0 x 25.0 mm	1	Pcs
	Shuttle-Relay-Suture Passer (Sterile)	10	Pcs
	Cannula & Shuttle Relay		
	Super Shuttle relay	8	Pcs
	Dry-Doc cannula, 8.0x85mm	6	Pcs
	Disposable Cannula set, 5.5x70mm	10	Pcs
	Shoulder Traction		
	Beachchair Shoudler Position System	1	Pcs
	Head Pad	1	Pcs
	Back Pad	1	Pcs
	Patient Restrain Set	1	Pcs
	Forehead Comfort Pad	30	Pcs
	Positioning Wedges	1	Pcs
	Shoulder Holder	1	Pcs
	Bio Anchor for Bankart / SLAP Repair		
	Bio Mini, Prethreaded with #2 Hi-Fi	5	Pcs
	Bio Instability Drill Guide, Fishmouth	1	Pcs
	Blunt Obturator	1	Pcs
	Bio Instability Bone Punch, 2.1mm	1	Pcs
	Bio Instability Self-Drilling Bone Tap, 2.4mm	1	Pcs
	Bio Instability Sterilization Tray	1	Pcs
	Bio Anchor for Rotator Cuff Repair		
	5.0mm Driver with Anchor	8	Pcs
	5.0mm Tap	1	Pcs
	PEEK Anchor for Rotator Cuff Repair		
	4.5mm FT-Anchor, 2 sutures	5	Pcs
	Universal FT Punch	1	Pcs
	Knotless Anchor for Rotator Cuff Repair		
	4.5mm Knotless Anchor	5	Pcs
	PopLok Punch 4.5mm	1	Pcs
50	OPERATIVE LAPAROSCOPY FOR SURGERY consists of :		

Veress Needle / Trocars & Reducer VERESS Pneumoperitoneum Needle with spring-loaded blunt stylet, LUER-lock, length 10 cm	1	pcs
Trocar, size 6 mm, consisting of: - Trocar only, with pyramidal tip - Cannula without valve, with insufflation stopcock, length 10.5 cm - Multifunctional Valve	2	pcs
Trocar, size 11 mm, color code: green, consisting of: - Trocar only, with pyramidal tip - Cannula without valve, with insufflation stop cock, length 10.5 cm - Multifunctional Valve	2	pcs
Reducer, 11/5 mm	1	pcs
Reduction Sleeve, 11/5 mm	1	pcs
Reduction Sleeve	1	pcs
Telescope 0° - 120° Telescope, ø 10 mm, length 32 cm, 0° - 120°, twisting controller to select the desired view of direction, fiber optic light transmission incorporated. Color code: gold		
Dissecting Forceps & Grasping KELLY Dissecting and Grasping Forcep, rotating, size 5 mm, length 36 cm, long, double action jaws	1	pcs
REDDICK-OLSEN Dissecting and Grasping Forceps, rotating, size 5 mm, length 36 cm, heavy, double action jaws	1	pcs
Dissecting and Grasping Forceps, rotating, size 5 mm, length 36 cm, atraumatic, double action jaws	1	pcs
Claw Grasping Forceps rotating, size 5 mm, length 36 cm, 2 x 3 teeth, single action jaws	1	pcs
MANHES Grasping Forceps, jaws with multiple teeth rotating, size 5 mm, length 36 cm, single action jaws	1	pcs
Claw Forceps, rotating, size 10 mm, length 36 cm, 2 x 3 teeth, single action jaws	1	pcs
REDDICK-OLSEN Dissecting and Grasping Forceps, rotating, size 5 mm, length 36 cm, double action jaws	1	pcs
Unipolar High Frequency Cord, 300 cm	1	pcs
Scissors		
METZENBAUM Scissors, rotating, size 5 mm, length 36 cm, blades curved, double action jaws, length of blades 12 mm	1	pcs
Bipolar Grasping Forceps Bipolar Grasping Forceps, size 5 mm, length 33 cm, robust	1	pcs
Bipolar High Frequency Cord, 300 cm	1	pcs
Dissecting Cannula Coagulating and Dissecting Electrode, spatula-sheaped, blunt with connector pin for unipolar coagulation, size 5 mm, working length 36 cm	1	pcs
Coagulating and Dissecting Electrode, L-shaped, with connector pin for unipolar coagulation, size 5 mm, working length 36 cm	1	pcs
Suture & Ligature Needle Holder "PARROT-JAW®"	1	pcs
Assistant Needle Holder "FLAMINGO-JAW®"	1	pcs
Knot Tier, 5 mm, 36 cm	1	pcs
Clip-Applicator	1	pcs
Titanium Clips, 16x 10	1	pack
Cleaning Accessories		
Cleaning Brush, length 35 cm - 50 cm, O.D. 2.5 - 11 mm	1	set
Cleaning Brush, 16 mm, 58 cm	1	pcs
Special Lubricant for Stopcocks	1	pcs
Cleaning agent, tube 5 gr.	1	pcs
Instrument Oil, 50 ml	1	pcs
INSUFLATOR Special Features : High degree of patient safety Easy to use Simultaneous display of set values and actual values facilitate monitoring of the insufflation process Touch keys for precise preselection of set value Optical and acoustic alarm signals in the event of patient overpressure Fully automatic, electronically controlled gas refill (e.g. in case of gas loss when changing instruments) SECUVENT Safety System: Constant monitoring of intraabdominal pressure Very high gas flow capacity of up to 30 l/min.		

<p>Especially suitable for providing a high gas flow when using smoke generating techniques</p> <p>Special initialization mode for establishing pneumoperitoneum at a preset insufflation pressure of 15 mmHg and a gas flow rate of 1 l/min with warning function</p> <p>A high-capacity trocar (Hicap) is a recommended option</p> <p>OPTITHERM Heating element: For preheating gas to body temperature to prevent peritoneum from cooling down</p> <p>SCB model with connection to the Communication Bus</p> <p>Operating mode :</p> <ul style="list-style-type: none"> - Initialization Mode - Operating Mode - Initialization Mode : 1 - Operating Mode : 0-30 <p>Pressure (mmHg) :</p> <ul style="list-style-type: none"> - Initialization Mode : 15 (1995 Pa) - Operating Mode : 0-30 (1330-3990 Pa) <p>Gas : CO2</p> <p>Measuring/Control System : electronic</p> <p>Parameter Display :</p> <ul style="list-style-type: none"> - Insufflation Pressure - Intraabdominal Press, (mmHg): 0-50 (6650 Pa) - Gas Flow (l/min.): 0-30 - Gas Consumption (l): 0-999 <p>ELECTRONIC INSUFLATOR with High Flow Insufflation 30 l/min. and Gas Preheating (37°C)</p>	1	Unit
CO2 High Pressure Hose, American/Germ.	1	pcs
CO2 Bottle, empty, German connection	1	pcs
<p>SUCTION IRRIGATION</p> <p>Special Features:</p> <p>Suction and Irrigation System for use in laparoscopy and gynecology</p> <p>Irrigation function is performed by a roller pump</p> <p>Maximum parameters for LAP and HYS mode are automatically fixed by the choice of the tubing set</p> <p>Precise presetting of suction and irrigation parameters via touch keys</p> <p>Adjacent display scales for set values and actual value ensure safe monitoring of suction and irrigation levels</p> <p>SCB model with connections to the Communication Bus</p> <ul style="list-style-type: none"> - HYST 0-200 (26.6 kPa) - LAP 0-400 (53.2 kPa) - HYST 0-500 - LAP 0-1000 <p>regulated :</p> <p>HYST 0-(-) 0.5 (-50 kPa)</p> <p>LAP 0-(-) 0.8 (-80 kPa)</p> <p>Suction & Irrigation Unit for Laparoscopy & Hysteroscopy operating voltage: 100 -240 VAC, 50/60 Hz complete with VACUsafe Pack Suction</p> <p>Silicone Tubing Set, suction</p> <p>One-pedal-Footswitch</p> <p>Bacterial Filter, pack of 10 pcs.</p> <p>Suction and Irrigation Tube, 5 mm</p>	1	unit
<p>Silicone Tubing Set, suction</p>	1	pcs
<p>One-pedal-Footswitch</p>	1	pcs
<p>Bacterial Filter, pack of 10 pcs.</p>	1	pack
<p>Suction and Irrigation Tube, 5 mm</p>	1	pcs
<p>CAMERA SYSTEM</p> <p>The benefits of High Definition Technology (HD) for medical applications are :</p> <p>Up to 6 times higher input resolution of the camera delivers more detail and depth of focus</p> <p>Using 16:9 format during image acquisition enlarges the field of vision and supports ergonomic viewing</p> <p>The brilliance of color enables optimal diagnosis</p> <p>Lateral view is enhanced by 32% when the endoscopes is withdraw slightly, providing the same image enhancement as a standard system. Any vertical information loss is restored and the lens remains clean</p> <p>Signal to noise ratio : 3 chip HD camera system > 60 db</p> <p>AGC : mikroprocessor controled</p>		

	<p>Video output :</p> <ul style="list-style-type: none"> - Composite signal to BNC socket - S-Video signal to 4-pin Mini DIN socket (2x) - RGB signal to D-Sub socket - SDI signal to BNC socket - HD signal to DVI-D socket (2x) <p>Input : Keyboard for title generator, 5 pin DIN socket</p> <p>Control output/input :</p> <ul style="list-style-type: none"> - 6-pin Mini DIN socket (2x) - 3.5 mm stereo jack plug (ACC 1, ACC 2) - Serial port at RJ-11 - USB port 		
	<p>HD hub with ICM/SDI Camera-Control Unit (CCU), to use with HD- and standard 1- and 3-Chip Camera Heads, max. Resolution 1920 x 1080 Pixel, with integrated ICM (Image Capture Module), SDI-Module, integrated Communication Bus SCB and integrated Image Processing Modul, Color System PAL/NTSC, Power Supply: 100-240 VAC, 50/60 Hz</p>	1	unit
	<p>Camera head, 3-Chip HD Camera Head max. resolution 1920 x 1080 pixel Progressive Scan, 50Hz/60Hz with 2 freely programmable Camera Head buttons, with integrated Parfocal-Zoom focal length f = 15 - 31mm (2x) For use with color system PAL and NTSC</p> <p>Image sensor : 3x 1/3" CCD chip</p> <p>Min. sensitivity : F 1.4/1.17 Lux</p>	1	pcs
	<p>MONITOR</p> <p>26" HD Monitor, desktop with pedestal, Medical Grade, Color systems PAL/NTSC, max. screen resolution 1920 x 1200, image format 16:10, power supply 100 - 240 VAC, 50/60 Hz</p> <p>Brightness : 500 cd/m²</p> <p>Max. viewing angle : 178° vertical</p> <p>Pixel distance : 0.287 mm</p> <p>Reaction Time : 5-12 ms</p> <p>Contrast ratio : 800:1</p> <p>Adaption : 100 mm VESA</p> <p>Rated power : 115 Watt</p> <p>Operation conditions : 0-40°C</p> <p>Storage : -20-60°C</p> <p>Rel. humidity : 20-85%, non-considering</p>	1	unit
	<p>LIGHT SOURCE & FIBER OPTIC</p> <p>Cold Light Fountain 300 Watt, Power Supply: 100-125/220-240 VAC, 50/60 Hz</p> <p>Fiber Optic Light Cable, size 4.8 mm, length 250 cm, heat-resistant</p> <p>XENON 15 V, 300 Watt, 6000 K</p>	1 1	unit pcs
	<p>TROLLEY</p> <p>Endoscopic Trolley (Mobile Cart)</p> <ul style="list-style-type: none"> 4 antistatic casters, 2 equipped with locking brakes, 5 fixed shelves, 6 grounding plugs, 4 handles, 1 electrical supply terminal strip with 6 plugs, 1 camera mount, 2 CO₂ Bottle Holders <p>Dimensions:</p> <p>Videocart: 620 mm x 1100 mm x 420 mm (w x h x d)</p> <p>Caster diameter: 120 mm</p>	1	set
	<p>Endoscopy System</p> <p>Spesifikasi :</p>	1	set
51	<p>Video System Center</p> <p><u>Specifications:</u></p> <ul style="list-style-type: none"> HDTV Output HDTV signal output SDTV SDTV signal output Color tone adjustment : Red, Blue, Chroma adjustment ± 8 steps Automatic Gain control Iris : Peak and Aut Image enhancement mode 4 level Narrow band imaging System (NBI) Electronic Magnification ; 1x; 1,2x; 1,5x Picture n Picture Image size selection Reset of defaults 	1	unit

The following setting can be reset to their defaults: User preset; image source; color tone; freeze; release index; zoom; character on screen, Picture in Picture

Patient data

Patient ID no; Patient name; Sex and age; date of birth; date of recording; image fame no; videotape recorder mode; Physician name; Comments

PC Card

XD-Picture card (16MB - 1GB)

Recording Format

TIFF; no compression; SHQ;HQ;SQ

Number of recording images

in 16MB, SDTV/HDTV, SHQ: approx 310/110 images; SQ approx: 2570/430 images

Memory Back-up

White balance; Iris mode; Enhancement; Image Size; Color tone

Contrast setting : Normal,low high

Power Supply :

Voltage fluctuation : 220 - 240V AC

Voltage fluctuation : Within + 10 %

Frequency : 50/60 Hz

Frequency fluctation : Within + 1 Hz

Consumption electric power : 150 VA

Fuse rating : 5 A , 250V

Fuse size : dia 5 x 20 mm

Dimension : 382 (W) x 91 (H) x 490 (D) mm

Weight : 10.5 kg

Classification (medical electrical - equipment) :

Standard Accessories :

Keyboard

1 pcs

Power Cord

Video Cable

1 pcs

HDTV/SDTV monitor cable

1 pcs

White cap

1 pcs

White cap holder

1 pcs

Foot Holder

4 pcs

Water Container

1 pcs

Scope Cable Holder

1 pcs

Keyboard cover

1 pcs

Spare fuse

2 pcs

XENON LIGHT SOURCE

1 unit

Specifications:

Examination lamp

300 W Xenon short - arc lamp (ozone - free)

Average lamp life

Approximately 500 hours of continous use (With intermittent use, the lamp life may vary slightly)

Ignition method

: Switching regulator

Narrow band Imaging mode

: YES; with front panel indicator

Emergency lamp

: Halogen lamp (wihin mirror) 12 V 35 W

Average emergency lamp life

: Approximately 500 hours of continous

Automatic brightness control method

: Servo-diaphragm method

Automatic exposure : 17 Steps

Brightness adjustment : Light-path diaphram control

Intensity mode : Normal or hight intensity

Cooling : Forced-air cooling

Color conversion : Possible using special - purpose Filter

Air feeding Pump : Diaphragm type pump

Pressure switching : 4 - level available (OFF, low, medium, high)

Water feeding Method : Air pressurization or detachable water container

Power supply :

Voltage : 100 - 240 V AC

Voltage fluction : Within + 10 %

Frequency : 50/60 Hz

Frequency fluction : Within + 1 Hz

Consumption electric power : 500 VA

Fuse rating : 8 A, 250V Fuse size : dia 5 x 20 mm Dimensions : 383 (W) x 162 (H) x 536 (D) mm Weight : 15.4 kg		
LCD VIDEO MONITOR 19 Inches HD TV Include : HD SDI INPUT ADAPTER) STAND MONITOR <i>Specifications :</i> Picture Performance LCD Panel Type a-Si TFT Active Matrix LCD with an AR-coated protection panel Resolution 1280 x 1024 dots (SXGA) Picture Size Approx. 376 x 301 mm (14 7/8 x 11 7/8 inches) (H x W) (Diagonal) Diagonal 482 mm (19.1 inches) Aspect 5:4 Viewing Angle 89°/89°/89°/89°(typical) (up/down/left/right contrast>10:1) Input / Output Input Composite BNC (x 1) 1.0 Vp-p ±3 dB, sync negative Y/C 4pin Mini DIN (x 1) Y: 1.0 Vp-p ±3dB, sync negative C: 0.286 Vp-p ±3dB (NTSC) / 0.3 Vp-p ±3dB (PAL) Component/RGB BNC (x 3) Component Y: 1.0 Vp-p ±3 dB Pb, Pr: 0.7 Vp-p ±3 dB RGB G: 0.7 Vp-p ±3 dB, Sync on G 0.3 Vp-p B: 0.7 Vp-p ±3 dB R: 0.7 Vp-p ±3 dB Ext. Sync BNC (x1) 0.3 ~ 4 Vp-p ±bipolarity ternary or negative polarity binary Computer DVI-D: TMDS (Single Link) HD15 Analog RGB: HD D-sub15pin (female); 0.7 Vp-p, 75 Ω sync positive (R, G, B) Remote Parallel Modular 8 pin (Assignable) Serial RS-232C (serial remote), D-sub 9-pin Output Composite BNC (x 1), Loop-through, automatic 75 Ω termination Y/C 4pin Mini DIN (x 1), Loop-through, automatic 75 Ω termination Component/RGB BNC (x 3), Loop-through, automatic 75 Ω termination Ext. Sync BNC (x 1), Loop-through, automatic 75 Ω termination	1	unit
SUCTION PUMP 220V <i>Specifications :</i> Dimensions : 250 x 310 x 255 mm (H x D x W) Weight : 12.7 kg (unit obove) Suction Jar Capacity : 1 litre or 2 litre option Power : 220 - 240V : 50/60Hz Maximum Vacuum : Variable up to - 85kPa	1	unit
Trolley Edoscopy Lokal	1	unit
Imaging and reporting System MediView TM Advanced would include Recording Module Archiving Module Playback and Video Editing suite Display and Post Processing Module Reporting Module CD Migrator	1	unit
Complete with : Computer Set (CPU & Monitor LCD) Printer Meja Komputer Leakage Tester	1	pcs
VIDEOSCOPE Gastrointestinal Videoscope Specifications: Optical System :	1	unit

<p>Field of view : 140° Direction of view : 0° Forward viewing Depth of field : 2 to 100 mm Distal End Outer diameter : 9.9 mm Insertion Tube Outer diameter : 9.9 mm Bending Section Angulations range : Up 210°, Down 90°, Right 100°, Left 100° Working Length : 1030 mm Total Length : 1345 mm Instrument Channel : 2.8 mm Minimum visible distance : 3 mm from the distal end High Deviation Scope Narrow Band Imaging System Electronic Maagnification Standard Accessories :</p>		
<p>Biopsy Forceps</p>	1	pcs
<p>Biopsy Forceps</p>	1	pcs
<p>Mouthpiece</p>	2	pcs
<p>Biopsy Valve</p>	1	pcs
<p>Channel -Opening cleaning brush</p>	1	pcs
<p>Channel cleanning brush</p>	1	pcs
<p>Water - resistant cap</p>	1	pcs
<p>Suction cleaning adapter</p>	1	pcs
<p>AW channel claening adapter</p>	1	pcs
<p>Channel plug</p>	1	pcs
<p>Injection tube</p>	1	pcs
<p>Air/water valve</p>	2	pcs
<p>Suction valve</p>	2	pcs
<p>Auxiliary water tube</p>	1	pcs
<p>Operation maual Reprocessing manual</p>		
<p>Colonovideoscope <i>Specifications:</i> Optical System : Field of view : 170° Direction of view : 0° Forward viewing Depth of field : 2 to 100 mm Distal End Outer diameter : 13.9 mm Insertion Tube Outer diameter : 12.8 mm Bending Section Angulations range : Up 180°, Down 180°, Right 160°, left 160° Ligth guide lens : 3 High Deviation Scope Narrow Band Imaging System Electronic Maagnification Close Focus Variable Stiffness Water Jet Working Length : 1680 mm Total Length : 2005 mm Instrument Channel : 3,7 mm Minimum visible distance : 2 mm from Standard Accessories :</p>	1	unit
<p>Biopsy Forceps</p>	1	pcs
<p>Biopsy forceps swing jaw</p>	1	pcs
<p>Biopsy valve (10 pcs)</p>	1	pcs
<p>Water Resistant cap</p>	1	pcs
<p>Channel-opening cleaning brush</p>	1	pcs
<p>Suction Cleaning Adapter</p>	1	pcs
<p>AW channel cleaning adapter</p>	1	pcs
<p>Channel Cleaning Brush</p>	1	pcs
<p>Channel Plug</p>	1	pcs
<p>Injection tube</p>	1	pcs
<p>Air/water valve</p>	2	pcs
<p>Suction Valve</p>	2	pcs
<p>Auxiliary water tube</p>	1	pcs
<p>Duodenovideoscope Optical System : Field of view : 100 derajat Direction of view : 5 derajat backward oblique</p>	1	unit

<p>Depth of field : 5 to 60 mm Distal End : Outer diameter : 13,7 mm Insertion Tube : Outer diameter : 11,3 mm Bending Section : Angulation range : : Up 120°, Down 90°, Right 110°, Left 90° Working Length : 1240 mm Total Length : 1550 mm Instrument Channel : Inner diameter : 4,2 mm Minimum visible distance : 10 mm Standard Accessories : Semi-disposable Biopsy Valve Single use channel - opening cleaning brush Single use channel cleaning brush Water Resistant Cap Chain for water resisant cap Suction Cleaning Adapter AW Channel Cleaning Adaptor Channel Plug Injection Tube Air/Water Valve Suction Valve Mouthpiece (Bite Guard) Operation manual Reprocessing manual Instructions</p>	<p>10 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1</p>	<p>pcs pcs pcs pcs pcs pcs pcs pcs pcs pcs pcs pcs pcs pcs pcs pcs pcs pcs pcs</p>
<p>FLUSHING PUMP Dimensions : 200 (W) x 173 (H) x 385 (D) mm Maximum : Instrument Channel 750 ml/min Flow rate : Auxiliary water channel : 230 ml/min Safety : Complies with EN/UL/IEC60601-1 Power Requirements Power Supply : 100 - 240V Fusing : 2 x T2.5 AH 250V Weight : 4 kg (with empty water container) Regulatory : CE marked and ETL listed Frequency : 50/60 Hz Power rating : 100 VA</p>	<p>1</p>	<p>unit</p>
<p>ELECTROSURGICAL GENERATOR High frequency : 330, 380 kHz Power Supply : 220-240V (WB991036), 100-120V (WB991046), 50/60Hz, 400 VA Size (W x D xH) : 295 x 375 x 115 mm Weight , without Footswitch : 6.5 kg Monopolar Output Sockets F 6 mm A-cord and 10 mm 2-pins for P-Cord connecting single/split Neutral Electrodes Cut 1/2/3 : 120W @ 500 Ohms PulsaCut slow/fast : 120W @ 500 Ohms SoftCoag : 120W @ 500 Ohms ForcepdCoag 1 : 50W @ 500 Ohms ForcepdCoag 2 : 50W @ 500 Ohms Bipolar Output Sockets : 28.8 mm 2-pins and F 4/8 mm coaxial Cut 1/2/3 : 120W @ 500 Ohms SoftCoag : 120W @ 100 Ohms RFCoag incl.RCAP : 40W @ 100 Ohms</p>	<p>1</p>	<p>unit</p>
<p>MANUAL DISINFECTOR Dimesions : 930 (H) x 510 (D) x 960 (W) mm Weight : 27 kg Instrument Tray Capacity : 6 litres</p>		
<p>OPTIONAL Endho- Therapy Accessories : For GASTRO & COLONOSCOPE Disposable Injector Force Disposable Injector Force</p>	<p>1 1 1</p>	<p>set set pcs</p>

	Polypctomy Snare	1	pcs
	Polypctomy Snare	1	pcs
	SD - Handle	1	pcs
	A Cord	1	pcs
	Rotatable Clip Fixing Device (Handle)	1	pack
	Clip	1	pcs
	Hot Biopsy Forcpeps	1	pcs
	Hot Biopsy Forcpeps	1	pcs
	Saeed Six Shooter for Ligation		
	Endho-Therapy Accessories for ERCP	1	pcs
	Disposable 3 lumens sphinterotome V	1	pcs
	Disposable 3 lumens sphinterotome V	1	pcs
	Guidemaster V DISPOSABLE GUIDEWIRE (2PC/SET)	1	pcs
	Multi 3 V Extration Balloon (Above)	1	pcs
	Multi 3 V Extration Balloon (Below)	1	pcs
	Single use V Cannula Standard	1	pcs
	Single use V Cannula Long Taper	1	pcs
	V Holder (ET Control Device)	1	pcs
	LithoCrush V basket	1	pcs
	LithoCrush V basket	1	pcs
	Mechanical Lithotriptor	1	pcs
	Billiary Stents 10 Fr, 120 mm	1	pcs
	Billiary Stents 8.5 Fr, 90 mm	1	pcs
	Billiary Stents 8.5 Fr, 120 mm	1	pcs
	Stent Insertion Kits	1	pcs
	Pre loaded Stent	1	pcs
	Pre loaded Stent	1	pcs
	Hot Biopsy Forcpeps	1	pcs
	Saeed Six Shooter for Ligation		
52	<p>Flouroscopy</p> <p>▪ Spesification:</p> <p>A mixed Radiography and Digital Fluoroscopy screening system with freely moving tube arm for free cassette esposure</p> <p><u>Clinical applications:</u></p> <ol style="list-style-type: none"> 1. Standard skeletal and radiographic examinations including lateral exposures and oblique beam projections from +/-35 degrees 2. Free cassette exposures on table, floor, wheelchair or gurney 3. Barium and iodine diagnostic examinations such as gastro intestinal as well as venography/phlebography, sialography etc. 4. Linear tomography 5. Thorax examinations via stand in vertical position or via optional wall bucky <p>Generator</p> <p>Microprocessor controlled converter generator</p> <p>Power Output ≥ 65 kW</p> <p>Fluoroscopy rating : 40 - 110 kV, 0,1 - 6 mA</p> <p>Tube voltage range : 40 - 150 kV</p> <p>Tube current : 0.1 mA - 1100 mA</p> <p>mAs product :0.5 mAs to 600 mAs with AEC, 0.5 mAs to 850 mAs without AEC</p> <p>Exposure times : 1 ms to 4 s with AEC, 0.4 ms to 4 s without AEC</p> <p>Automatic kV/mA control during fluoroscopy</p> <p>Microprocessor controlled X-ray generator with high frequency converter technique</p> <p>Automatic Exposure Control (AEC) based on falling load and fixed current</p> <p>Over 250 APR programs</p> <p>Automatic Exposure Control with Amplimat system (film /screen)</p> <p>Acces times:</p> <ol style="list-style-type: none"> i) Standby to fluoroscopy : 0.2 s - 1.0 s ii) Fluoroscopy to radiography < 0.8 s iii) Radiography to fluoroscopy < 0.8 s <p>Tube overload protection</p> <p>Automatic main voltage compensation</p> <p>X-Ray Tube</p> <p>Maximum peak voltage : 150 kV</p> <p>Focal Spot : Large = 1.2 mm, small = 0.6 mm</p> <p>Anode head storage capacity ≥ 300 KHU</p> <p>Anode diameter ≥ 90 mm</p> <p>Anode angle ≥ 13°</p> <p>Anode speed ≥ 3000 / min</p> <p>Max. continuous heat dissipation ≥ 350 W</p>	1	set

Max. heat content of assembly ≥ 1.25 MHU

Tube overload protection

Table

Dimensions:

i) Table height ≥ 945 mm

ii) Table top : ± 2200 mm x 690 mm

Table tilt:

i) Tilt angle : $+90^\circ / -15^\circ$

ii) Speed : $1^\circ/\text{s}$ to $4^\circ/\text{s}$

Table top

Lateral movements ≥ 23 cm

Lateral Movements speed :

i) Lateral minimal 4 cm/s

ii) Longitudinal : 1 cm/s to 10 cm/s

X-ray attenuation equivalent : min 0.78 mm Al typical (at 100 kV, 2.7 mm Al HVL)

Max. patient weight:

i) For all movements : ± 160 kg

ii) In horizontal table position : ± 220 kg

Column

Transverse movement ≥ 350 cm

Angulation range : -35° to $+35^\circ$

Angulation speed $\geq 10^\circ/\text{s}$

Scanning range ≥ 158 cm

Scanning speed variable : 1 cm/s to 10 cm/s

Source Image Distance (SID)

i) in coupled mode : min 110 cm

ii) in decoupled mode : variable (up to 250 cm max)

Manual rotation :

i) around vertical axis : -90° to $+90^\circ$

ii) with locked position : $+90^\circ$, 0° , -90°

iii) around horizontal axis: -180° to $+180^\circ$

Linear tomography

Tomographic angle : 40° , 20° , 8°

Tomographic times:

i) at $40^\circ = 2$ s or 4 s

ii) at $20^\circ = 1$ s or 2 s

iii) at $8^\circ = 0.4$ s or 0.8 s

Layer height range : 0 cm to 24 cm

Receptor : CR and/or conventional cassette

Bucky Unit

AMPLIMAT measuring chamber

Suitable for all standard cassette sizes : from 18 x 24 cm to 35 x 43 cm

Automatic Cassette Sensing

Grid : Moving grid, 36 l/cm, ratio 1:12

Preparation time for exposure : ≤ 1.5 s

Source Image Distance (SID):

i) in coupled mode : min 110 cm

ii) in decoupled mode : variable (up to 250 cm max.)

Automatic serial charger

Subdivisions : 1:1; 2:1; 3:1; 4:1; 6:1

Preparations time for exposure ≤ 1.5 s

Rapid sequence : 1/s

Grid : Moving grid 36 l/cm, ratio 1:12

Image Intensifier

Size ≥ 31 cm triple mode Image intensifier

Mode : 31cm / 25cm / 17cm

Input screen : Caesium iodide

Output screen : Fiber optic

Modulation Transfer Factor : min 61% at 1 lp/mm

Spatial Resolution : Three mode

i) 31 cm : 3.9 lp/cm

ii) 25 cm mode: 4.2 lp/mm

iii) 17 cm mode: 5.6 lp/mm

Detective Quantum Efficiency (DQE) $\geq 60\%$

Conversion factor ≥ 126 cd/m²

Contrast ratio : min 27 : 1

Type : CCD matrix

Dynamic range, min 48 dB

	9. Proteksi radiasi	1			
53	Harmonic scapel Specification :	1	set		
	Power supply Voltage : 120/220-240 V AC Power fluctuation : within + 10% Frequency : 50/60 Hz Input current : 6 A (at 120 V AC), 3A (at 220-240 V AC)				
	Size Dimensions : 295 (W) x 132 (H) x 366 (D) mm Weight : 9 Kg Degree of protection : Type CF against electric shock of applied parts				
	Ultrasonic output Aplicable hand piece ON/OFF operation : Foot switch,Hand switch (optional) Output setting : the output level can be set by pressing the ultrasonic output setting switches on the front panel of the generator Frequency : 23-5 kHz/47 kHz Maximum output : 150 W (interval output) ; 100 W (continuous output)				
	Consisting Of : Foot switch Power Cord Tranduser long Straight Scissors 5mm long Curved scissors 5mm Cleaning adapter Torque Wrench Brush			1 1 1 1 1 1 1 1	pc pc pc pc pc pc pc pc
54	Choledoscopy Spesification : Fiberscopes,cleaning brushes ,ETO-Cap,attachement,sealing caps and grasping forceps	1	unit		
	Specification Field of view : 75° Direction of view : 0° Working length : 700mm				
	Optional : Attachment Valve , 10 pcs Grasping forceps Disposable spiral basket Rat Tooth Type (3Fr) Disposable three nail Halogen Light Source			1 1 1 1 1 1 1	pcs pcs pcs pcs pcs pcs unit
55	Ultra sonografi 3 D Spesifikasi :	1	set		
	Probes : BiPlane Microconvex Probe (Transrectal) Applications : Urology Maximum Band Width (-20dB) : 1.5 – 4.5 MHz Convex Probe (Trans Abdominal) Applications : Abdomen, Urology Probe Band Width : 1.5 – 4.0 MHz				
	Monitor Minimal 17 inch TFT LCD Adjustable Tilt/ Swivel Digital Brightness / Contrast Adjustment				
	Console design 3 Active Probe Ports Integrated HDD minimal 160GB Integrated DVD R/W Drive				
	Operating Modes B-Mode Coded Harmonic Imaging M-Mode Color Doppler Mode Power Doppler Imaging with directional map				

	<p>PW Doppler With High PRF M-Color Flow Mode</p> <p>System Standard Features :</p> <ul style="list-style-type: none"> Digital beamformer Minimal 12,000 System processing channel technology Displayed Imaging depth : 2- 30 cm probe dependent Minimum depth of field : 2 cm (zoom and probe dependent) Maximum depth of field : 30 cm (probe dependent) Continous Dynamic Receive Focus/ aperture Multi-frequency/ wideband technology 256 shades gray Up to 197 dB Processing Dynamic Range Adjustable field of View (FOV) Image reverse : Right/ Left Image rotation : 4 steps Rotation : 0°, 90°, 180°, 270° Hard Disk for image storage Without compression: Raw DICOM: > 14500 images DICOM: Image Only: > 16,000 images 1200 Frames (60 sec) CINE Memory (256MB) Real-time Triplex Mode at any Depth and PRF Automatic Optimization Auto Tissue Optimization Auto Spectrum Optimization Auto Color Optimization Harmonic Imaging Speckle reduction imaging Compound Resolution Imaging Virtual Convex Patient Information Database Image Archive on Hard Drive and DVD Easy Backup to Media for data security Raw Data Processing and Analysis for post processing Vascular Calcs Cardiac Calcs OB Calcs Fetal Trending Multi Gestational Calcs Hip Dysplasia Calcs Gynecological Calcs Urological Calcs Renal Calcs Real-time Auto Doppler Calculations On-board basic Reporting Complete User Manual Available in Board Through Help (F1) Panoramic View Feature to detect Blood Flow without Doppler (B Mode and Color) <i>Include:</i> B&W Printer Color Printer UPS 1 KVA True Online Basic User Manual Eksternal LCD 32" (include VGA Cable + Bracked) 		
56	<p>Universal Intens Pulsa Light with Nd YAG</p> <p>Spesification :</p> <ul style="list-style-type: none"> Size : 44 cm x 50.5 cm x 47 cm Weight : 40 kg Electrical Requirement : Universal Power Supply <p>Applications :</p> <ul style="list-style-type: none"> Photorejuvenation, Vascular Lesions, Pigmented Lesions, Permanent Hair Reduction <ul style="list-style-type: none"> Spectrum : 515-1200 nm ExpertFilters :515,560, 590, 615, 640, 695nm Energy Density (Fluence) : 10-35 J/cm² Pulse Delay : 5-150 J/cm² Pulse Duration : 4-20 ms Pulse Characteristic : Multiple-Squential Pulsing 	1	set

	<p>optic light transmission incorporated. Color code: green</p> <p>Esophagoscope Tube, length 30 cm, size 6</p> <p>Esophagoscope Tube, length 30 cm, size 5</p> <p>Esophagoscope Tube, length 30cm, size 4</p> <p>Esophagoscope Tube, length 18,5 cm, size 3.5</p> <p>Prismatic Light Deflector, autoclavable, with connection for fiber optic light cable</p> <p>Adjustable Magnifier, swing-away type, with ring adaption, autoclavable</p> <p>Rubber Telescope Guide for use with telescopes or optical for- ceps</p> <p>Telescope Bridge</p> <p>Optical Coin Forceps for Pediatric Broncho-Esophagoscopes, 2 x 2 teeth</p> <p>Optical Alligator Forceps for Pediatric Broncho-Esophagoscopes</p> <p>Optical Forceps</p> <p>Suction Tube, insulated, with connector for unipolar coagulation, outer dia- meter 3 mm, working length 35 cm</p> <p>Sponge Holder, spring handle, working length 35 cm</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>pcs</p> <p>pcs</p> <p>pcs</p> <p>pcs</p> <p>pcs</p> <p>pcs</p> <p>pcs</p> <p>pcs</p> <p>pcs</p> <p>pcs</p> <p>pcs</p> <p>pcs</p>
59	<p>Anesthesi Machine With Ventilator</p> <p>Spesifikasi :</p> <p>Space saving compact design</p> <p>Sturdy yet lightweight construction for easy mobility</p> <p>Large writing table</p> <p>2 Large storage drawers</p> <p>Spacious monitoring shelf</p> <p>Dual flow meters (2XN2O, 2XO2, 1XAir)</p> <p>Strong back bar for fitting of 2 vaporizers</p> <p>2 Liter Autoclavable Absorber</p> <p>Hi Pressure Tubing (N2O, O2, Air)</p> <p>The Ventilator Offers :</p> <p>Adult to neonatal settings</p> <p>Respiratory modes :</p> <p>IPPV, SIPPV, PCV, SIMV, CPAP, MANUAL</p> <p>Compliance Compensation</p> <p>I:E Ratio</p> <p>Electronic PEEP</p> <p>10.4" high resolution color screen</p> <p>Easy to use operating system</p> <p>2 hour battery backup</p> <p>Comprehensive alarms</p> <p>Working Conditions :</p> <p>Gas Supply : O2, N2O, AIR</p> <p>Rated Pressure : '0.4 Mpa - 1MPa</p> <p>Power : AC 110V - 220V 50 Hz - 60 Hz</p> <p>Gas Delivery (5 tube 2xO2, 2xN2O, 1 AIR)</p> <p>O2 : 0.1 LPM - 10 LPM</p> <p>N2O : 0.1 LPM - 10 LPM</p> <p>AIR : 0.1 LPM - 10 LPM</p> <p>N2O/O2 hypoxic guard leaving O2 concentration >25%</p> <p>Oxygen Flush 35 LPM - 75 LPM</p> <p>Vaporizer concentration 0.2% - 5%</p> <p>Low Oxygen alarm with N2O cutoff</p> <p>Operating Conditions :</p> <p>Ambient Temperature : 15oC - 35oC</p> <p>Relative Humidity < 80%</p> <p>Atmospheric Pressure : 860hPa - 1060hPa</p> <p>Integrated Ventilator :</p> <p>Screen : Color 10.4" color TFT</p> <p>Frequency : Adult 4 - 30 BPM</p> <p>: Child 20 60 60 BPM</p> <p>Integrated Ventilator (continue) :</p> <p>Frequency (SIMV, SIPPV) : 4 - 12 BPM</p> <p>I :E Ratio : 2:1 - 1:5</p> <p>PEEP : Off 0.1 - 2 kPa</p> <p>Tidal Volume : Adult 0.2 - 1.2L</p> <p>: Child 0.0200.30L</p> <p>Max minute volume > 18 LPM</p> <p>PCV Pressure : Off 0.5 - 6 kPa</p> <p>Insp. Flow : Adult 10 - 50 LPM</p> <p>: Child 3 - 30 LPM</p> <p>Insp. Plateau : Off 5 - 50% w/5% increments</p>	<p>1</p>	<p>Unit</p>

	Insp. Trigger pressure : -2.0 - 2.0 kPa		
	On Screen monitoring of : Tidal Volume (Vt) Frequency (Freq) Minute Volume (MV) Gas Pressure (Peak) O2 Concentration		
	Comprehensive Alarm for : Tidal Volume (no volume, upper limit, lower limit) Airway Peak Pressure (upper limit and lower limit) Oxygen Concentration (upper limit lower limit) Low O2 supply with automatic N2O cut - off Power failure Low Battery Accessories: Isoflurance Vaporizer Servoflurance Voparizer Flow sampling detector+flow sampling line Pressure sensor+sensor tube Breathing Bag(3 liter) Breathing circuit Adult	1 1 1 1 1 1 1 1 1	Unit Unit Pcs Pcs Pcs Pcs Pcs
60	Ventilator Basic Unit dengan P Flex Manuver ,MIP, P 100. Included Internal Battery , dan Trolley Standart Spesifikasi: Patient Range : Untuk Bayi mulai dari BB 100 gr s/d Dewasa BB 300 kg Patient Type : Adult,Pediatric,infant Ventilation Mode : Volume / Pressure Control A/C,CPAP/PSV,NPPV Breath Type : APRV/BIPHASIC,Volume ,Pressue,TCPL,PRVC. Apnea Backup : Volume , Pressure TCPL Primary Setting : Respiratory Rate 1 to 150 bpm (neonatal), 1 to 120 bpm (adult) : Tidal Volume 2,0 ml to 2,5 L (baby 200 gr s/d dewasa 250 kg) : Inspiratory Pressure 0 to 90 cmH2O (adult Ped, 0 to 80 cmH2O (neonatal) : Triger Flow Sensitivity 0,1 to 20,0 l/m : Triger Pressure sensitiity 0.1 to 20 L/min : I:E 1 : 99,9 , and 99,9 :1 Screen : Touch screen user interface, display color monitor 12,4 inch Advanced Settings : Volume Limit 2,0 ml to 2,5 L : Machine Volume 2.0 to 300 ml Neonatus. 25 to 500 ml Pediatric 0,1 to 2500 ml Adult : Demand Flow 0,4 to 5 L/min : Automatic Self Calibration : Auto Peep Measurement / P ₁₀₀ Measuremant (Respiratory Drive) : Vsynch MIP (Maximum Inspiratory Pressure)= untuk Mengetahui kemampuan Paru Slow Flow (Pflex) Automatic Events : Blood Gas, Chest X Ray,Suction,Intubation,Feeding : Diagnostic Procedure, Therapeutic Procedure Trend : Histograms and tables . Capabilities extend to all monitored parameter Increase O2 dapat diset 21 s/d 100% , Heated Expiratory filter System reusable included Assesories termasuk :	1	Unit
	1. Arm Support	1	ea
	2. Trolley Standart	1	ea
	3. Flow sensor Neo	1	ea
	4. Filter Expirasi Reusable (Viasys)	1	ea
	5. Filter Expirasi Dispossible (Vadi) p/n 800-51600	4	ea
	6. Filter Inspirasi Dispossible HEPA (Vadi)p/n 800-51900	5	ea
	7. Chamber Infant	1	ea
	8. Chamber Pediatric Autofeediing (Vadi)	1	ea
	9. Humidifier	1	unit
	10. Clam Mounting Humidifier	1	ea
	11. Breathing Circuit Infant	2	set
	12. Breathing Circuit Pediatric	2	set
	13. Breathing Circuit Adult	2	set

14. Nebulizer Anak	1	ea
15. Test Lung Dewasa	1	ea
16. Test Lung infant	1	ea
17. Flang tube Vadi Plus	1	ea
18. Hose oxygen	1	set
19. Hose Compressor	1	set
20. Gygazyme (50 ml)	1	btl
21. Gygasept Instrue AF (5o ml) DTT	1	btl
22. Stabilizer	1	unit

**KELOMPOK KERJA
PENGADAAN ALAT PENDIDIKAN/LAB PERALATAN MEDIK FAKULTAS KEDOKTERAN
UNIVERSITAS SRIWJAYA**

NO	N A M A	J A B A T A N	TANDA TANGAN
1.	Hendra Marta Yudha	Ketua	1.
2.	Deni Chairudin	Sekretaris	2.
3.	Turnalini Bainan	Anggota	3.
4.	Inayati Mandayuni	Anggota	4.
5.	Ellyasa	Anggota	5.