

Laparoscopy System (3D HD Endovision System for Laparoscopy and Endoscopy with Accessories)

3D CAMERA SYSTEM :

- Integrated video laparoscope, 10 mm, 30° direction of view
- Two distal Full HD image sensors with depth of focus 15mm to 120mm, optimized for stereoscopic endoscopy
- Slender and light design – weight not more than 450 gm for optimal ergonomics, integrated in a fine titanium case.
- Sterilization options: Autoclavable, Plasma sterilization like Sterrad[®] 100S, NX, 100NX; Steris[®] system, V-Pro, and EtO
- DVI-D output for transmitting the 3D signal in 1080p format at 50/60 Hz to a 3D monitor
- HD-SDI for simultaneous signal transmission to standard 2D monitors
- Easy switching between 2D and 3D modes
- Input Keyboard for title generator, 5-pin DIN socket
- Meet IEC 601-1, 601-2-18, CSA 22.2 no.601, UL 2601-1 and CE according to MDD, protection class 1/CF defibrillation-safe

Three Chip FULL High definition Camera System for ICG Fluorescence guided imaging by Near Infra Red (NIR) light/Optical Contrast Differentiation System

The system is truly Digital HDTV endoscopic video camera.

The system maximum Resolution of 1920 X 1080

pixels, progressive scan and the consistent use of 16: 9 / 16:10 formats for Input & Output to guarantee genuine HDTV.

- Camera head compatible for ICG HD fluorescence guided Imaging by Near Infra Red/Optical Contrast Differentiation System.
- ICG HD system easy to handle and can be used for both White light & Near Infra Red (NIR) light.
- The system have facility of Optical & Digital Zoom lens to enhance the quality of Image size & cross specialty usage of the camera system, regardless of the telescope used.
- USB Port for Capturing FULL HD Videos/ HD Stills in External USB drive and direct interface of USB Printer to facilitate direct printouts.
- The Individual components (Light source, camera system, telescopes and fibre optic cable) are perfectly aligned to ICG HD system/Optical Contrast Differentiation System.
- System have facility of controlling additional equipments like light source/ insufflators and recording device from the camera head.
- System have facility to offer various visualization modes for surgery and diagnosis by shifting the color spectrum like BLUE & GREEN light for recognition of the finest tissue structures and their differentiation.



- Parallel live display of visualization modes besides white light mode (picture-in-picture).
- Easily Upgradable to flexible Video Scopes.

Technical Specifications:

- Camera Image sensor: 3X1/3" or less Size CCD-Chip.
- Pixels: 1920 x 1080
- AGC: Microprocessor controlled
- Lens: Integrated Optical Zoom , F= 15-31 mm
- Control buttons on camera Head: 3 (2 of them freely programmable).
- Video output: 2 Nos. X DVI-D output, 1 x 3G-SDI output, camera input for communication , 2 or more USB connection
- Certified to : Safety - IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601 and CE according to MDD, protection class1/CF

Full High Definition Medical Grade Monitor capable of displaying 3D/ 2D Image.-

- LCD Panel 32 inch (16:9 aspect ratio)
- High Definition 1920*1200 pixel resolution
- Supply clip on type glasses also for selectable wearing surgeons.
- Various signal inputs: DVI-D for 3D signal DVI-D for 2d signal in HD, HD-SDI for 2D signal in HD, S-Video for 2D signal in standard resolution
- Supplied with 20 pieces of Light, passive circularly polarized 3D glasses.
- Viewing angle- Horizontal: 178 degrees, Vertical: 178 degrees (3D: TBD)
- Contrast Contrast 1000:1

Xenon Light Source with ICG HD fluorescence mode.

- Lamp type:- Xenon 15V, 300 Watt
- Color Temperatures 6000K
- Light Outlets – 1
- Light Intensity Adjustment: - Continuously adjustable, either via a membrane keyboard.
- Facility of switching between white light and Near Infra Red light (NIR) or to change contrast enhancement for ICG HD/Optical Contrast Differentiation System by use by hand-controls or foot switch.
- To Be provided with Spare Lamp – 5 Nos.
- Certified To :- IEC 601-1 & UL 544 CE According to MDD , protection class 1/CF

Fiber optic cable

- High light transmission.
- Extremely heat resistance.
- Supplied with Diameter 4.8mm, Length 250 cm.

Rigid Telescope 30 degree

- Straight forward telescope 30 degree, enlarged view, 10mm, length 31cm, autoclavable, compatible with ICG Fluorescence guided imaging by Near Infra Red (NIR) light and white light, fiber optic light transmission incorporated. X 1 Nos.

TCO2 Electronic Insufflator 40L/Min or More

- Heatable insufflation tube for heating the CO2 gas up to patient body temperature.
- High flow mode with flow performance 40 l/min or more
- Easy and intuitive use with user friendly colour touch screen for easy and precise setting of set values for pressure and flow and of insufflation mode, as well as for clear display of corresponding set values and actual values.
- Optical and acoustic alarm signals in the event of patient overpressure.
- Safety system: Constant monitoring of intra abdominal pressure; any overpressure is reduced immediately.
- Applicable for use in Laparoscopy, in Thoracoscopy, in Proctology (for Transanal Endoscopic Operations) and for endoscopy of the upper and lower gastrointestinal tract, as well as in Cardiac Surgery (open or endoscopically assisted cardiac surgery to assure an optimal air extrusion and minimizing risk of air microemboli and for decreasing rate of contamination and minimizing risk of postoperative wound infection – for minimally invasive cardiac surgery, e. g. mitral valve surgery) and in Vascular Surgery (endoscopic vessel harvesting).

Technical Specifications:

- Gas flow: 0 to 40 L/min or more.
- Pressure: 0-30 mmHg (4000Pa).
- High flow mode (40L l/min or more.)
- Sensitive mode pressure 15 mmhg& flow 15 l/min for sensitive application
- Electronic control and colour touch screen.
- Following data are displayed on touch screen:
 - Insufflation mode.
 - Set value pressure (0-30 mmHg).
 - Current patient pressure.
 - Set value gas flow (0-40 l/min or more).
 - Current gas flow.
 - Gas consumption (0-999 l).
 - Status of gas heating.
- Power supply: 100-240 VAC, 50/60 Hz.
- Certified to: IEC 60601-1, CE label acc. to MDD, medical product Class IIb.
- Type of protection against electrical shocks: Protection Class 1.
- Degree of protection against electric shocks: Applied part type CF.

IMAGE/VIDEO RECORDING AND DATA ARCHIVING SYSTEM 3D SIGNALS:

State of the art user friendly Medical grade system (certified to be used in OT) offered with following features,

- User full control of the system from the sterile field via camera head buttons, optional touch screen, and optional foot switch.
- Parallel (synchronic or independent) recording of two image sources.
- Still images and videos (optional with audio) in 2D FULL HD or 3D (with optional 3D-camera system). Water mark feature.
- Intelligent, adaptive storage management.
- Storage location is freely definable and configurable.
- Storage on internal memory (2 TB, FIFO), USB storage media via 2.0 and 3.0, optical media (DVD writer, Blu-ray reader), network drive, FTP or via DICOM.
- Automatic storage in the background to reduce the time between the interventions. Easy management and overview of open/automatic save processes.
- Import of patient data via keyboard or DICOM work list.
- Intra-and postoperative printing via optional printer (local or network).

- Various adaptable templates for printing to choose from.
- Integrated surgical checklist following the WHO standard or customizable. Basic functions for the editing of still images and videos.
- Playback of 2D and 3D content on separate monitor (optional 3D-system required).
- Integrated file-viewer for still images, videos and checklists from diverse data sources.
- Integrated security software as a protection against malware, independent from security patches of the operating system and it is only possible to run certified software.
- Structured and clear user guidance, optimized for touch screen control.
- Scalable range of functions.
- Low noise generation and fast system start due to SSD-technology.
- Seamless USB silicone keyboard with touch pad to enter details.
- Controllable via 12" inbuilt touch screen
- Input Voltage: 100-240 VAC.
- Input Frequency: 50-60 Hz.
- Power output: 350 Watt.
- CPU: Intel® Core™ i7-2600@3.4GHz.
- Internal memory: SSD (70GB) | HDD (2 TB).
- Memory RAM: 8GB.
- Connectors: 3 x 1 GB Ethernet (RJ 45), 6x USB 2.0, 2x USB 3.0.
- Image format: BMP, JPG, JPG2000.
- Video format: MPEG -4, MPEG-2, MOV.
- Video signal inputs: 2 x DVI-D.
- Color system: PAL, NTSC.
- Resolution still images: up to 1920x1080, Aspect ratio 16:9.
- Resolution videos: up to 1920x1080 Progressive Scan for 25/30 frames.
- Preinstalled printer: SONY UP-DR80MD.
- Type approval: IEC 60601-1-1, EN60601-1, EN60601-2.

The DICOM 3 interface installed to the system in order to allow the surgeon to view all the DICOM 3 images stored in the PACS system on a digital light box within the operating rooms. Furthermore, all intra operative images recorded can be sent via the DICOM 3 interface to the PACS system for further processing.

It must USA FDA Approved.

Suction & Irrigation device

Suction Irrigation System

Special Features:- COMPLETE UNIT ALONG WITH ACCESSORIES

Suction and irrigation system for use in laparoscopy and gynecology

Irrigation function is performed by reel pump.

Maximum parameters for Lap and Hys mode are automatically fixed by the choice of the tubing set.

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

Technical Suction Irrigation

With pressure control 0-400 mm Hg (for Laparoscopy)

With flow control 0-1000mmHg (for Laparoscopy)

Regulated Laparoscopy mode 0 - 0.8 (80kPa)

Power supply 100-240 VAC (50/60 Hz)

Certified to IEC 601-1 CE label

According to MDD

ENDOSCOPY VIDEO TROLLEY

Equipment Cart , rides on 4 antistatic dual wheels equipped with locking brakes, central beam with integrated electrical sub distributors with 6 sockets, grounding plugs, modular in nature (add shelves and components later if required)

Central monitor holder to mount monitor with height adjustable, swiveling and tilting, swivel range approx. 360°, loading capacity max. 18 kg, with monitor mount VESA 75/100

Cart following dimensions in mm (w x h x d):

Equipment cart: 830 x 1474 x 730,

Caster diameter should be 125 mm

Cart compatible to accommodate followings when required,

Isolation transformer

Counter balance plate

CO2 cylinder holder

Monitor holding arms (lateral)

Product Certification : European CE certified and To provided from Same manufacturer

UPS System

On line UPS of suitable capacity for 30 minutes back up with batteries.

CO2 Cylinder of water capacity 6 Kg.-2 Nos.

Telescope 5 mm, 30 degree: 1 no

- Completely distortion free
- Quick lock for attachment of video adaptors
- Large field of view and depth of focus Autoclavable
- High quality optics

Laparoscopic Hand Instrument-All hand instruments from same manufacturer of main equipment with USFDA and European CE certified except where it is listed from any other manufacturer.

Veress Needle , 10 - 12cm - 2 nos

Veress Needle , size - 13 - 15cm - 2 nos

Trocar & Cannula: Metallic, Reusable

Cannula size: 10-12mm diameter; multifunctional valve and automatic valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It stop-cock for CO2 insufflation.

Trocar pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 100-110 mm.-4 Nos

Trocar under optical vision: Metallic, Reusable

Cannula with endo tip with smooth thread on cannula size: 11-12mm, cannula rotatable with multifunction valve, working length : 11cm. The endo tip cannula compatible with 10mm telescope for under vision entry into peritoneum. No need for any trocar. -2 Nos

Hassan Cannula: Metallic, Reusable.

Cannula with blunt obturator size: 11mm with adaptor having two flanges for holding thread/-suture material.-2Nos

Trocar & Cannula: Metallic, Reusable

Cannula size : 5-6mm diameter ; multifunctional valve and automatic valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. Stop-cock for CO2 insufflation.

Trocar pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 100-110 mm.-6 Nos

Grasping Forceps Fenestrated:

Atraumatic serration, fenestrated, grasping forcep with unipolar connection, insulated sheath, handle without ratchet, both jaws opening. Dismantable into three parts namely, outer tube, handle and inserts. Length between 35-36cm, size: 5.0mm-1 nos.

Grasping Forcep Fenestrated curved grasper:

Atraumatic, fenestrated, curved grasping forcep with unipolar connection, insulated sheath, handle without ratchet, both jaws opening. Dismantable into three parts namely, outer tube, handle and inserts. Length between 35-36cm, size: 5.0mm -2nos.

Reducer tube, 11/505mm-4

HF-electrode, Hook Type-2 no

HF-electrode, Saptula Type-1 no

Unipolar curved Maryland dissecting and Grasping Forcep:

Kelly curved dissecting and grasping forceps insulated, atraumatic, working length between 35-36 cm. Size 5mm, dismantlable into handle, insert and working tube. Handle without ratchet.-2 Nos Aspiration needle 5 mm -2 no

Grasping Forcep Fenestrated curved Fundus grasper:

Atraumatic, fenestrated, curved grasping forcep with unipolar connection, insulated sheath, handle without ratchet. Dismantable into three parts namely, outer tube, handle and inserts. Length between 35-36cm, size: 5.0mm

Bowel Grasping Forcep:

Bowel Grasper fenestrated, size: 5.0mm, length 5-36cm, handle with ratchet, insulated shaft. - 2 nos

KELLY Dissecting and Grasping Forceps, Right Angled, rotating, dismantling in 3 parts(insert, outer tube, handle),with connector pin for unipolar coagulation, size 5mm, length 36 cm - 2 nos KELLY Dissecting and Grasping Forceps, Right Angled, rotating, dismantling in 3 parts(insert, outer tube, handle),with connector pin for unipolar coagulation, size 10mm, length 36 cm-2 nos

Grasping Forceps with 2 x 4 teeth ,double action jaw, with removable ratchet handle, rotating,dismantling in 3 parts(insert, outer tube, handle),with connector pin for unipolar coagulation, size 5mm, length 36 cm-2 nos

Babcock Grasping Forceps, metal handle, rotating, dismantling in 3 parts (insert, outer tube, handle), with connector pin for unipolar coagulation, size 5mm, length 36 cm-1 no

Babcock Grasping Forceps, metal handle, rotating, dismantling in 3 parts (insert, outer tube, handle),with connector pin for unipolar coagulation, size 10mm, length 36 cm-1 no

Bowel-Grasper, Fenestrated, rotating, dismantling in 3 parts (insert, outer tube,handle),with connector pin for unipolarcoagulation, size 5mm, length 36cm-1 no

METZENBAUM Scissor, curved, length of blades 12mm,rotating, dismantling in 3 parts (insert, outer tube, handle),with connector pin for unipolar coagulation, size 5mm, length 36 cm-2 nos

Micro Hook Scissors, rotating, dismantling in 3 parts (insert, outer tube, 01 handle),with connector pin for unipolar coagulation, size 5mm, length 36 cm

Metal Clips LT300 & LT400-108 clips each size.

Laparoscopic metal clip applicator compatible with liga metal clips (size LT 300 and 400) - 1 no each, can be from any manufacturer with USFDA & EUROPEAN certified

High Frequency cord Unipolar for HF units - 2 nos.

Suction & Irrigation cannula 5 mm, thumb control type - 2 nos

Irrigation & Suction tube with lateral holes, with two way stop cock, antireflex surface, length 36cm - 1 no.

Laparoscopic Pott's Scissors - 1 no.

Bipolar Grasping Forceps, robust, with non-retracting jaws, dismantling in 4 parts (Handle, outer tube, inner tube, Insert) - 1 no

Bipolar Coagulating Forceps, cross serrated, width of jaws 3mm, with non retracting jaws, dismantling in 4 parts (Handle, outer tube, inner tube, Insert) - 1 no.

High Frequency Cord, bipolar - 1 no

Rotating claw Forceps, single action jaws, size 10mm, length 36cm - 1 no

Dismantling, Rotating Applicator for PILLING ligating clips(Medium Large) with ratchet to lock the jaw part holding the clip - 1 no

Knot Tier for extracorporeal Knotting - 1 no

Dismantling fan retractor, distendable, size 5mm, length 36cm- 1 no

Dismantling fan retractor, distendable, size 10 mm, length 36cm - 1 no

KOH Macro Needle holder, ergonomic handle with ratchet, left curved jaws with tungsten carbide inserts Ø - 1 nos.

KOH Macro needle holder ergonomic handle with ratchet right curved jaws with tungsten carbide inserts size 5mm length 33cm for use with suture material 0/0 7/0 Self aligning needle holder-1no

Vascular Clamp applicator size 10mm length 32cm for use with deployable vascular clamps consisting of Inner Rod, outer tube - 1 no

Deployable Vascular clamp, Parallel - action jaws length of jaws 5cm size 10mm overall length 11cm for use with vascular clamp applicator-1 nos

Deployable Vascular clamp, Parallel-action jaws length of jaws 5cm size 10mm overall length 11cm for use with vascular clamp applicator-1 nos

Laparoscopic SATINSKY Clamp short version length of jaws 8cm depth of jaws 2cm straight sheath size 10mm, length 30cm with axial ring handle ratchet with security locking device-1 nos

Laparoscopic SATINSKY Clamp short version length of jaws 8cm depth of jaws 5cm straight sheath size 10mm, length 30cm with axial ring handle ratchet with security locking device-1 nos

Laparoscopic SATINSKY Clamp short version length of jaws 8cm depth of jaws 5cm curved sheath size 10mm, length 30cm with axial ring handle ratchet with security locking device

Sterilization tray and storage case for all hand instruments from OEM-2 nos

Cleaning Brush, length 35cm, 0.0-7 mm-2 nos

Cleaning Brush, length 35cm, 0.0 -25mm-2 nos

Cleaning Brush, length 50cm, 0.0-11mm-2 nos

Cleaning Brush, length 50cm, 0.0-7mm-2 nos

Oil Dropper 38-1 no
 Oil for Instruments, Bottle of 50ml-4 nos
 Special-Lubricant for stopcocks-4 nos
 Duraglit for polishing metal sheaths and instruments-2 nos
 Hydatid cannula-1
 Cleaning Brush, length 35cm, 0.0-7 mm-2 nos
 Cleaning Brush, length 35cm, 0.0-25mm-2 nos
 Cleaning Brush, length 50cm, 0.0-11mm-2 nos
 Cleaning Brush, length 50cm, 0.0-7mm-2 nos
 Oil Dropper 38-1 no
 Oil for Instruments, Bottle of 50ml-4 nos
 Special-Lubricant for stopcocks-4 nos
 Duraglit for polishing metal sheaths and instruments-2 nos
 Hydatid cannula-1

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, troubleshooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/U SFDA norms.

Instruments :Instruments :We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.



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Our Products & Technologies :

						
UV/VIS Spectro 2060+ Double Beam	FTIR	Gas Chromatograph 3000	Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
						
Optical Emission Spectrophotometer	DSC/TGA	NOVA 2020 plus Automated Bio Chemistry Analyzer	HEMA 2020 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon
						
Fully Automated CLIA	NOVA Basic Semi-Auto Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	Blood Gas Analyzer	Random access Analyzer for immunoassay Proteins & clinical chemistry	Semen Analyzer	Water purification system

Regulatory compliances :



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2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

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