## ANNEX-B-d

**SPECIFICATION OF MEDICAL EQUIPMENT**

**DELIVERY LOCATION AT TRAUMA CENTRE AT QUETTA.**

<table>
<thead>
<tr>
<th>S.No</th>
<th>Equipment</th>
<th>Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Gastroenterology Department</strong></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td><strong>Endoscope (Complete System)</strong></td>
<td></td>
</tr>
</tbody>
</table>

### A  FULL HIGH DEFINITION VIDEO GASTROSCOPE

- Full High Definition Video Gastroscope with CCD / CMOS and advanced technological features
- **Field of view:** 140° or better
- **Direction of view:** 0° (Forward Viewing)
- **Depth of field:** 2 - 100 mm or better
- **Distal end diameter:** 9 mm or less
- **Insertion tube diameter:** 9 mm or less
- **Channel inner diameter:** 2.8 mm or more
- **Working Length:** 1030mm or more
- **Angulations:** Up 210°, Down 90°, Right 100°, Left 100° or better

With advanced technological features:
- Observation facility for greater contrast of blood vessels and mucosa
- Texture and Color Enhancement
- Red Dichromatic Imaging
- Full HD/ HDTV/ 1920 x 1080 resolution
- Water proof design
- Water Jet Function Dual Focus

### B  HIGH DEFINITION VIDEO COLONOSCOPE

- High Definition Video Colonoscope (Slim) with CCD / CMOS and advanced technological features
- **Field of view:** Normal focus 170° Near focus 160°
- **Direction of view:** Forward viewing
- **Depth of field:** Normal focus 5 - 100 mm Near focus 2 – 6 mm
Distal end diameter  13.5 mm or less
Insertion tube diameter 13 mm or less
Channel inner diameter 3.5 mm or more
Working Length: 1650mm or more
Angulations: Up 180°, Down 160°, Right 160°, Left 160° or better
With following advanced Observation facility for greater contrast of blood vessels and mucosa
Texture and Color Enhancement Imaging (Red Dichromatic Imaging)
Ergonomically design grip which enhances scope manoeuvrability
Scope ID function to facilitate
Full HD/ HDTV/ 1920 x 1080 resolution
Water proof design
High-Force Transmission Adjustable flexibility Passive bending with RIT
Scope Guide probe compatible Close Focus

C WATER PUMP
Flushing pump compatible with all scopes
A powerful flow allows organic material to be washed away efficiently while precise microprocessor
Able to rapidly fill organs with fluid, allowing endoscopic ultrasound procedures to be performed
can be controlled via a remote control or a foot switch, allowing the user to choose the method that
Standby Mode:
Automatically selected when the pump head is opened, the standby mode allows safe exchange of water
20-Second Cutoff Timer:
The timer automatically cuts off flow after 20 seconds, ensuring a patient is not accidentally overfilled
Reverse Pumping:
Once the foot switch is released, the pump head runs in reverse a number of times, reducing pressure in
User-Friendly Features:
A bright LED display allow easy operation of the pump even a darkened room, and flat-panel touch

D HD/ Q-IMAGE DUODENO VIDEO SCOPE
Video Duodenoscope with CCD / CMOS and advanced technological features
Field of view: 100°
Direction of view 5°-10° or better (Backward Viewing)
Depth of field: 5 - 60 mm or
Distal end diameter: 13.7 or less
Insertion tube diameter: 11.6 mm or less
Working length:
Angulation: Up 120° Down 90° Right 105° Left 90° or better
Observation facility for greater contrast of Red Dichromatic Imaging
Ergonomically design grip which enhances scope manoeuvrability
Scope ID function to facilitate Dual wire locking mechanism
Detachable cap
Single Use Distal end cover for Duodeno Videoscope

**ULTRA HIGH DEFINITION VIDEO SYSTEM CENTRE (4K) WITH LED LIGHT SOURCE**

Ultra High Definition/ 4K Video Processor System with latest Artificial Intelligence (AI) / Computer Aided Digital Outputs: 12G-SDI, 3G-SDI, HD-SDI and SD-SDI or equivalent
Touch screen display
Analog Outputs: VBS/ Composite / Y/C or Equivalent Ultra HD Image Quality
Iris Mode: Avg, Peak, Auto
Color Adjustment, Structure emphasis, Tone enhancement
Electronic Zoom 3-mode
Contrast: 2-Steps HIGH and LOW
Freeze screen display and pre-freeze function
Patient, doctors & clinical procedures list storage facility
Programmable functions through endoscope

**Keyboard for data handling**
Capable for visual enhancement and differentiation of vessels and Capillaries (TXI, RDI, BAI-MAC/ NBI and AFI)
Backward compatibility with previous versions of video scopes from the same manufacturer
Complete with cables and connections
User settings The function settings for up to 20 users can be stored

**Image size selection**
The size of the endoscopic image can be selected from 2 modes. (Except SDTV)
Electric zoom Switch between mode 1, mode 2, and mode 3.
PIP/POP Switch between PIP and POP.
Aspect ratio Switch between 16:9 and 4:3. (Except SDTV) Freeze Freeze the endoscopic image
Switch setting values of multiple functions at once Separate or built in advanced LED light Source For
Compact in size and lightweight, allowing you to incorporate it easily into your existing endoscopy.

Including Cylinder hose Gas Tube From same manufacturer

Connection to gas cylinder via dedicated cylinder hose

A dedicated cylinder hose ensures easy exchange of carbon dioxide cylinders. This procedure is simple,

Connection to hospital medical gas supply

You can also connect to the hospital’s medical gas supply, ensuring an unlimited supply of gas, and

Compact and lightweight

Compact in size and lightweight, allowing you to incorporate it easily into your existing endoscopy

Including Cylinder hose Gas Tube From same manufacturer

High intensity LED lights

Longer life with low-energy consumption

Special light observation modes (BLI, LCI, FICE / TXI, RDI, BAI-MAC/ NBI/ AFI)

Automatic & manual Brightness adjustment Memorization of set-values

Air pump – Hi, Low, Off

Water Tank must be supplied along-with the light source

Trolley Based Workstation.

Swivel arm for monitor.

Electrical wiring with sockets and isolation transformer Sliding Keyboard shelf / tray.

Placement provision of printer.

Imported (to be supplied by the same manufacturer)

**E LED / LCD ULTRA HIGH DEFINITION COLOR MONITOR 32”**

32” or more Medical Grade same manufacturer for best quality ULTRA HD 4K Resolution 3840 x 2160 or

Contrast Ratio 1000:1 Luminance: 450cd/m2 Viewing angle 178/ 178 degree No of color 1.07billion

Image enhancement AIME Flip pattern Rotation

4K input 12G-SDIx2 Display Port X1, HDMI x 1 4KOutput 12G-SDIx2

Trolley Mounted

Multi Display Mode PIP & POP Aspect ratio of 16:9 or more.

**F CO2 REGULATION/C02 INSUFFLATOR**

Single-button control

Simple start/stop button on the front panel, enabling you to control gas flow rates efficiently and

Connection to gas cylinder via dedicated cylinder hose

A dedicated cylinder hose ensures easy exchange of carbon dioxide cylinders. This procedure is simple,

Connection to hospital medical gas supply

You can also connect to the hospital’s medical gas supply, ensuring an unlimited supply of gas, and

Compact and lightweight

Compact in size and lightweight, allowing you to incorporate it easily into your existing endoscopy

Including Cylinder hose Gas Tube From same manufacturer
**ELECTRO SURGICAL UNIT WITH APC**

Fast Spark Monitor Technology
High-Power Cut Support
Contact Quality Monitoring function
Leakage-Protection Sensor

**Cut Modes**

Pure Cut: Continuous cutting mode with low coagulation effect
Pulse Cut Slow/Fast: Intermittent cutting for endoscopic procedures
Blend Cut: Continuous cutting mode with increased coagulation effect – ideal for dissection

**Coagulation Modes**

Soft Coag: Slow and deep coagulation – optimal for coagulation of thick blood vessels
Spray Coag: Contact-free coagulation – optimal for POEM procedures
Forced Coag: Fast and effective coagulation
Power Coag: Fast and effective coagulation with increased dissection capability

**Argon Plasma Modes**

Forced Argon: Continuous argon plasma beam with steady power output for fast and effective large area haemostasis and ablation
Pulsed Argon Slow/Fast: Pulsed argon plasma beam with intermittent power output for a more controlled effect on tissue

Comprising following accessories:

- Wireless foot switch Including receiver and charger
- Imported System cart
- Active cord for ET instruments, 8 mm
- Connecting cable for disposable neutral electrode
- Split neutral electrode, disposable, 10 pcs
- Pressure Argon Plasma Probes (10)

**RECORDING SYSTEM 4K/3D**

Recording with high image quality can be achieved by optimally adjusting the parameters for video
Mode supporting over-range for video processors
Mode enabling obscuring of noises at far points for 3D image (2D recording) and gastrointestinal
Mode enabling replay of BT.2020 color for 4K image in BT.709 environment, etc.

Easy-to-use touch screen compliant with IPF-3 generation UI guidelines
GUI designs optimized to fit Operation screen in which scenes are classified so that the required operations can be identified without
Voice notification that residual recording capacity is insufficient to prevent forgetting to exchange media
Operational tools optimal for operator/location
Operation using scope and foot switches from a sterile area
Infrared wireless remote controller enabling capture and start/stop of recording from a remote location
Capture and "video production" operations using the scope switch
Patient information is imported from Recorded still images are printed out using the video printer
Even if the capacity of external media runs Images can be exported in exFAT format and also recorded on large-capacity USB hard disk drives above Video exported on an USB hard disk can be loaded in both Windows and Mac environments.
Voice can be recorded in synchronization with video of patient procedures simply by connecting a
A volume adjust function is provided for voice recording, enabling replay/confirmation of the voice
Preset function calling up settings defined by individual users

F  **SUCTION PUMP FOR ENDOSCOPE**
Dedicated for Endoscopy featuring high vacuum high flow Vacuum: 95 Kpa, Max Air flow rate: 60 l/min
Impact resistant autoclavable jar

G  **MAINTENANCE UNIT**
Maintenance unit with leakage tester for endoscopy

H  **ENDOSCOPIC WASHER & PRE-PROCESSOR (IMPORTED)**
Automatic High Pressure Washing & Cleaning capability Free standing type
Applicable scopes, Flexible endoscopes
Number of reprocessed scopes 01/02 at a time
Number of Cleaning time setting, 1-10 minutes
Disinfection time setting 5-60 minutes
Display of Parameters
Compatible with quoted scopes
Complete with all accessories. Ready to use

**CABINET FOR SCOPE HANGING**
state-of-the-art Endoscope Storage and Drying Cabinets with full traceability for the safe storage of
Storage of up to 5 or 10 endoscopes Up to 31 days storage
HEPA-filtered air supplied to each endoscope ensures channels are dried within 3 hours
Secure Imported

**BATTERY BACKUP UPS 3KVA**
I  THERAPEUTIC ACCESSORIES FOR:
   UPPER GI
   FOR LOWER GI FOR ERCP
   FOR EUS

J  HD ENDOSCOPIC ULTRA SOUND SYSTEM EUS)
High Resolution Digital Color Ultrasound Scanner for endoscopic Examination and elastography with
Operating modes 2D and 3D
Flow mode and combination, Power Doppler, Pulse wave Doppler and B-mode,

Image
Full / Central screen
Full HD Display via HD-SDI and DVI ports Computing systems
Digital EUS system with alpha numeric keyboard and built in trackball
Compatible with EUS miniature probes Dual scanning Electronic and Mechanical LCD touch screen 6-inch
Freeze facility with key board or endoscope,
foot switch

Electronic Scanning:
Mode B mode, FLOW mode, PW mode
Scanning Radial scanning, curved linear array scanning Electronic scanning B mode
Transmission frequencies 5, 6, 7.5, 10, 12 MHz
Display range 2, 3, 4, 5, 6, 7, 8, 9, 12 cm Display processing Rotation Rotatable
Display area Radial scanning: Full circle, bottom sector, top sector, scroll
Curved linear array scanning: Fixed Direction Normal/Inverse
Cine memory Over 600 frames storable depending on the conditions Signal processing setting
Gain 20 steps, adjustable. Contrast 8 steps, adjustable.
STC 21 steps for each of 7 distances, adjustable. Focus Auto Preset Near, far
Focus setting Focus location adjustable. Focus number adjustable.
Image adjustment Enhance ON/OFF Compound ON/OFF
Electronic scanning FLOW mode
Mode COLOR-FLOW mode, POWER-FLOW mode,
H-FLOW mode.
Doppler signal processing setting
Velocity range Maximum 22 steps, adjustable (r 0.6 – r119.3 cm/s) depending on the conditions.
Flow gain 32 steps, adjustable. Display processing
Display mode Selection of B mode image, superimposed display or dual-screen display is possible.
Electronic scanning PW mode (Pulsed Wave Doppler) Analysis FFT method
Detectable depth 0 – 120 mm
Maximum detectable velocity ANGLE ADJUST 0q =72.9167 cm/s ANGLE ADJUST 60q =145.8333 cm/s (5.0 PW mode signal processing setting Gain 61 steps, adjustable.
Pulse repetition
frequency Max 20 steps, adjustable (1 – 10 kHz).
Sample length 0.5 – 5.0 mm: 0.5 mm step
5.0 – 15.0 mm: 1.0 mm step Angle adjust Applicable (±60q). Wall filter 12 steps
Display processing Baseline shift Applicable Invert The PW waveform display upside down. Sweep speed
Display mode B + PW, COLOR + PW, POWER + PW, H-FLOW + PW
Audio output
Volume Adjusts the volume of the Pulse Wave Doppler waveform. Measurement Distance Possible to
Area/circumference Measures area/circumference enclosed by caliper tracing.
PW Measurement
Velocity, Acceleration, Flow volume, Time average velocity, Ratio-time, Ratio-velocity, Average velocity,
Estimation Volume
(only Mechanical scanning function) Calculates the volume. Electronic scanning B mode
Mode CH-B Mode for viewing the harmonic component from the ultrasound contrast agent using
a color image on a Fundamental image.
Preset (CH agent type) 2 types, adjustable (Middle or low). Frequency selection 2 types, adjustable (CH-R
CH-EUS mode signal processing setting Gain 20 steps, adjustable.
Contrast 8 steps, adjustable (CH-B only).
STC 21 steps for each of 7 distances, adjustable. The settings is common for Fundamental image.
Fundamental image setting Gain 20 steps, adjustable. Contrast 8 steps, adjustable.
STC 21 steps for each of 7 distances, adjustable. The settings is common for contrast image.
Display mode Selection of the CH-B or CH-COLOR single-screen image or dual-screen display of the fundamental and CH-B or CH-COLOR images.
Movie recording Image format AVI
saving type GENERAL (for normal movie data) or TIC (for TIC movie data)
Maximum recording time 3 minutes (per one file)
TIC Analysis Analysis target modes When the CH-B mode or THE mode is activated in the B mode.
ROI setting Number & Shape Max. 5, Ellipse
Operation Copy, Rotate, Delete, Interpolation, Move, and modify the ROI size.
Review of motion image Review (Forward), Frame Review (Forward/Backward), Review Speed (5 steps
Analysis result Form Display of ROI, Graphs, and Data Graph display Averaged Intensity, Fitting Curve
Signal processing setting
STRAIN ADJUST 5 steps, adjustable. Pressurization state guide
Pressurization bar Pressurization status indication in 7 steps. Strain graph Time variation of tissue strain
Reference line 5 steps, adjustable (width of the reference). Sweep speed 8 kinds, adjustable (1, 1.5, 2, 3,
Sector 5 kinds, adjustable (OFF, 1, 2, 3, 4).
Gain 10 steps, adjustable for the Y-axis scale of strain graph.
Strain ratio measurement The amounts of the strain and their ratio in two areas.
Mechanical scanning function Mode B mode
Scanning Radial scanning
Usable frequencies C5, C7.5, C12, C20, 7.5, 12, 20 MHz
Display range 2, 3, 4, 6, 9, 12 cm Display processing Rotation Rotatable.
Display area Full circle, bottom sector, top sector, scroll Direction Normal/Inverse
Motorized Spiral Enteroscopy

Allows whole-length of small intestine to be visualized
Efficient hand control & automatic pressure

K

ULTRASONIC LINEAR GASTRO VIDEO SCOPE
Field of View: 100° or better
Direction of View: Forward oblique 55° or more
Distal End Diameter: 14.6 mm or less
Insertion tube: 12.8 mm or less
Instrument Channel: 3.7 mm or more
Display mode: B-Mode, Color Doppler / Color Flow.
Scanning method: Curved linear Array
Scanning Direction: Parallel/longitudinal to insertion direction
Frequency: Multi frequency
Angulations: 130°, 90°, 90°, 90° or better
Connecting Method: Balloon Method/direct
Narrow band imaging or equivalent
Superb imaging quality
Improved forceps elevator design
Increased penetration depth

L

MOTORIZED SMALL INTESTINAL VIDEOSCOPE
Small-Bowel Entero Scope for covering the entire small intestine, with the advanced technological
Direction of view: Forward viewing
Field of view 140° or equivalent or better
Depth of field 3 - 100 mm or equivalent or better
Distal end diameter 9.2 mm or equivalent or better
Insertion tube diameter 9.2 mm or equivalent or better
Channel inner diameter 3.2 mm or equivalent or better
Working Length 2000 or equivalent or better
Total Length 2280 mm or equivalent or better
Angulations: Up 180°, Down 180°
Right 160°, Left 160° or better

Motorized Spiral Enteroscopy
Allows whole-length of small intestine to be visualized
Efficient hand control & automatic pressure
Observation facility for greater contrast of blood vessels and mucosa
Should allow access to reach deep into the small intestine by pleating the small bowel onto the
Should have integrated motor on the scope that can be controlled by the user with the help of a
Should have High Definition Image Quality with Narrow Band Imaging capability
All components of the Spiral Enteroscopy System should be latex free Should be equipped with water jet
Balloon/rotation Control Unit:
Set Pressure of Balloon: ±5Kpa or more Overtube x 50
With Standard Set of Accessories

M NON INVASIVE LIVER SCANNING SYSTEM WITH PROBES
Fibroscan Expert™.
Non-Invasive quantitative liver stiffness, Spleen stiffness fibrosis measurement and
Quantification of fatty liver disease. Diagnostic and Management device. Vibration Controlled Transient
LSM*by VCTE™ Liver Fibrosis
LSM by VCTE™ is unique, patented and validated for liver fibrosis assessment.
• It is the standard for non-invasive evaluation of liver stiffness.
• 2000 peer-reviewed publications support the use of LSM by VCTE™. CCAP™**Liver Steatosis
CCAP™ is unique, patented and validated for liver steatosis assessment.
• 330 international and peer-reviewed articles support the use of CAP™.2,3 SSM *by VCTE™
Portal hypertension
SSM by VCTE™ is unique, patented and validated for portal hypertension assessment and can be used
• It is a new marker for non-invasive evaluation of spleen stiffness.
• 50 peer-reviewed publications support the use of SSM by VCTE™ System Quality Assurance
LED-indicator for delivery of proper Probe Pressure on Skin. Controlled, Reproducible 50-Hz/100-
Automatic Skin-to-Liver-Capsule Distance Advice.
TM-mode Ultrasound display to localize Liver parenchyma. A-mode Ultrasound display to confirm
Liver Targeting Tool to affirm proper location of probe tip. Automatic “Invalid Measurement” analysis
System Hardware Components
Integrated Application-Specific Console and Touch Screen 19” touch screen. Pre-installed Data
Pre-configured Data storage/database to optimize data management. Ergonomic design allows Liver Stiffness (LS) in kPa displayed for each measurement. Interquartile Range (IQR) calculated and **System Output**

Individual patient report outputted to PDF format. Individual patient report outputted to XLS format. Raw data stored in proprietary FIBX format. Connectivity

Ethernet Connector RJ 45. 3 USB 3.0 Ports. HDMI Port

Guidance Probe Connector HDMI output

1 auxiliary output (footswitch compatible) Ground Connector

**M- PROBE (Standard Probe) INCLUDED IN ABOVE PRICE**

Model: M+
The M probe is designed for the general population Ultrasound frequency is 3.5 MHz

Penetration through tissues over 25 to 65 mm depth. GUIDANCE PROBE

Designed on B mode localization for spleen stiffness measurement Spleen shear wave frequency 100 Hz

Frequencies standard and Deep 1 presets: 3.0 MHz Deep 2 presets: 2.0 MHz

**SM ART EXAM CAP™ (Controlled Attenuation Parameters.) INCLUDED IN ABOVE PRICE**

For Quantification of Steatosis in Fatty liver diseases

New computation method for ultrasonic acquired stiffness measurement. Continuous CAPTM decreases Simple CAP™ PCD is 35 mm vs SMART EXAM CAP PCD 45 mm (Probe to capsule distance) SMART EXAM

**Metrological Data**

Liver stiffness range with VCTE™ 1.5 kPa (Min) – 75.0 kPa (Max) Liver shear wave frequency 50 Hz

CAP™ RANGE 100 dB/m (Min) – 400 dB/m (Max)

Spleen stiffness range with VCTE™ 6 kPa (Min) – 100 kPa (Max) Spleen shear wave frequency 100 Hz

**XL- PROBE (for Obese Patients) INCLUDED IN ABOVE PRICE**

Model: XL+

A more sensitive ultrasound sensor has been designed to enhance deeper signal Ultrasound frequency Penetration through tissues over a 35 to 75mm depth. Clinically validated:2,000 plus peer-reviewed

Country of Origin France Manufacturer Echosens WARRANTY: one year.
**ESOPHELGEAL, ANORECTAL MANOMETRY & PH STUDIES APPARATUS**

A single hardware platform that has the capability for multiple diagnostic testing modules, including:

- High Resolution Impedance Manometry (HRiM)
- High Resolution Anorectal Manometry (HRAM)

A single hardware platform capable of supporting multiple technology configurations, including:

- Catheter specific guided protocols with data acquisition software to guide the user through the study

Application specific system cart, including:

Hydraulic movement allowing the user to stand when performing a study or in a seated position to analyze the study; Integrated power isolation transformer; Large lockable storage drawer; Printer shelf;

24” medical grade touch screen monitor

Solid-State Catheter Configurations:

- High Resolution Impedance Manometry (HRiM):
  - 12 FR, with at least 32 true circumferential pressure sensors spaced at 1cm intervals and 16 impedance channels spaced at 2 cm intervals; High Resolution Anorectal Manometry
  - 12 FR with at least 23 Directional Pressure sensors, including 5 rings with 4 sensors positioned

All solid state catheters should be protected against submersion in approved cleaning and disinfection.

The system should be upgradable of other GI functional tests, including Biofeedback, Pudendal Nerve System must have a computer using Windows OS and Analysis Software

1. For HRiM Analysis, bolus transit should be able to be displayed either as a separate image or as an
2. The Analysis software should include the capability to automatically analyze manometric data using the Chicago Classifications or Conventional Manometric Analysis functions
3. Software must support real-time SyncVIEW using Wire Frame

**Multi-Dimensional Display**

Technology capable of showing “virtual oesophagus” playback using advanced wire frame analysis software.

4. The report should contain a data table including all Chicago Classification analysis metrics, including IRP, DCI, CFV, Distal Latency and Peristaltic Breaks.
5. The report should contain a data table including Conventional Manometry findings.
6. The report should provide LES Profile Data as well as Bolus Transit metrics (Impedance catheter only)
7. The Acquisition Software should provide the capability of viewing using either HREPT (High Resolution Esophageal Pressure Topography), standard waveforms, SyncVIEW using Wire Frame Multi-
8. Acquisition software should have catheter specific guided protocols to guide the user through the
9. Analysis Software should be loadable on an unlimited number of PCs at no additional charge. No user
10. Should provide free software updates for the life of the product
11. During data acquisition, there should be a facility for pausing & restarting the recording, which
12. There should be facility for marking events like the type of swallow, the position of the catheter,

Operation requirement
1. Ambient Temperature: 10 to 40 degrees C; Altitude: -400 to 2200 meters MSL
2. Power Specs: 100-230V; 50-60Hz Training
   i. Cyber-coaching from a Registered Nurse experienced in motility
   ii. Online training program with downloadable teaching modules Comprehensive Warranty
1. One years comprehensive hardware warranty.
2. Spare parts and required consumables should be available for a period of at least 5-years from the
3. The High Resolution Manometry Catheter should have a two-year / 200 use Warranty including repair
4. The equipment should follow international standards and safety requirement. Should be US FDA
   Technical Support
1. The manufacturer should provide 24/7/365 Technical Support
2. The manufacturer should have on-line diagnostic capabilities for the system and software, free of

Note: The Biomedical Equipments shall met the Certification (FDA/CE/MHLW) where applicable
Country of Manufacture: Preferably - USA/Europe/Japan

GYNAECOLOGY/OBSTETRICS DEPARTEMENT

<table>
<thead>
<tr>
<th>2</th>
<th>Biopsy Forceps</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Baby Tischler Biopsy Punch Forceps</td>
<td>295 mm to Shoulder. 2 mm x 5 mm Bite</td>
</tr>
<tr>
<td></td>
<td>Eppendorf Biopsy Punch Forceps with Finger Rings</td>
<td>200 mm to Shoulder. 3 mm x 8 mm Blade</td>
</tr>
</tbody>
</table>
Kevorkian Biopsy Punch Forceps  
Tischler Morgan Biopsy Punch Forceps  
3 mm x 7 mm Bite. 295 mm to Shoulder  
Van Doren Cervical Biopsy Punch with Curved Basket Jaw, Angled Shanks  
267 mm (10 1/2``)  
Wittner Cervical Biopsy Punch - Jaws Curved to Side  
230 mm (9``)

<table>
<thead>
<tr>
<th>3</th>
<th>Myomectomy Set</th>
<th></th>
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<tbody>
<tr>
<td>Composition:</td>
<td>Myoma Screw: 5mm</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Myoma Screw: 10mm</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>BONNEY myomectomy clamp: 27 cm</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4</th>
<th>ICU beds</th>
<th>20</th>
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<tbody>
<tr>
<td>Side L2120<em>W970</em>H450/740mm</td>
<td></td>
<td></td>
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<tr>
<td>Head and foot board ABS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Castor Brake castor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor Linak</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel Stainless steel panel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guardrail Aluminium alloy guardrail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backtest function: 75°±5°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Head and foot tilting: 12°±2°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Footrest function: 45°±5°</td>
<td></td>
<td></td>
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<tr>
<td>The whole bed up&amp;down: 450-740mm</td>
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</table>

Standard configuration:  
Motor 4 Pcs  
Head and foot board 1 Pair  
Guardrail 1 Pair  
Castor 4 Pcs  
Control handle 1 Pc  
I.V. Stand 1 Pc  
I.V. Stand hole 4 Pcs  
Drainage hook 4 Pcs  

More Details:  
Advanced electrostatic powder spray surface, anti-aging and anti-rust.  
Bed frame is welded by profile steel, stable and reliable.
One pass rolled bed board with ventilation holes (with flexible connection)

With ABS head and foot board, European style aluminium side rails.
With 5” central lock brake castors
With Linak motor with battery.
With 4 sections cold steel sleeping board.
With TR function
With examination position
With plastic cover on the bottom

<table>
<thead>
<tr>
<th>UROLOGY DEPARTMENT</th>
<th>minimally invasive PCNL small size</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 NPHROSCOPE (MIP)</td>
<td>1</td>
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<tr>
<td></td>
<td>Nephroscope with angled eyepiece, 7.5 Fr., 6, length 24 cm, autoclavable, 1 working channel 2 Fr., 1 irrigation channel 3 Fr., fiber optic light transmission incorporated, for use with Operating Sheaths</td>
</tr>
<tr>
<td></td>
<td>The following accessories are included in delivery:</td>
</tr>
<tr>
<td></td>
<td>Insertion Aid</td>
</tr>
<tr>
<td></td>
<td>Instrument Port with Sealing System and Quick Release Lock</td>
</tr>
<tr>
<td></td>
<td>Luer-Lock Tube Connector</td>
</tr>
<tr>
<td></td>
<td>Luer-Lock Tube Connector, with stopcock Seal, package of 10</td>
</tr>
<tr>
<td></td>
<td>Multiport Bridge</td>
</tr>
<tr>
<td></td>
<td>Cleaning Adaptor</td>
</tr>
<tr>
<td></td>
<td>Wire Tray</td>
</tr>
<tr>
<td></td>
<td>One Step Dilator, with central channel for guide wires, for use with 8.5/9.5 Fr. Operating Sheaths</td>
</tr>
<tr>
<td></td>
<td>Operating Sheath, for MIP XS Extra small), 8.5/9.5 Fr., working length 15 cm, for use with Nephroscope for , One Step Dilator and Applicator</td>
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</tbody>
</table>
One Step Dilator, with central channel for guide wires, for use with Operating Sheath 11/12 Fr.
Operating Sheath, for MIPs(minimally invasive pcnl small), 11/12 Fr., working length 15 cm, for continuous irrigation and suction, for use with Nephroscope for One Step Dilator and Applicator Operating Sheath, for the supine position, 11/12 Fr., working length 18 cm, for continuous irrigation and suction, for use with Nephroscope for

One Step Dilator and Applicator Applicator for Sealing, including sheath and pusher for use with Operating Sheaths Applicator, for supine position, with rod for sealing with sheath, for use with Operating Sheaths

<table>
<thead>
<tr>
<th>6</th>
<th>NEPHROSCOPE (MIP - M)</th>
<th>M (medium size)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nephroscope for, with angled eyepiece, 12 Fr., 12°, length 22 cm, autoclavable, 1 working channel 6.7 Fr. for instruments up to 5 Fr., fiber optic light transmission incorporated, for use with Operating Sheaths</td>
<td>Following accessories are included in delivery: Insertion Aid Instrument Port with Sealing System and Quick Release Lock LUER-Lock Tube Connector, male LUER-Lock Tube Connector, with stopcock Seal, package of 10 Wire Tray One Step Dilator, with central channel for guide wires, for use with 15/16 Fr. Operating Sheaths</td>
<td>1</td>
</tr>
</tbody>
</table>
One Step Dilator, with central channel and a second eccentric channel for
guide wires, for use with 16.5/17.5 Fr. Operating Sheaths
One Step Dilator, with central channel for guide wires and distal
curved channel for deflection of guide wires, for use with 21/22 Fr.
Operating Sheaths
Operating Sheath, 15/16 Fr., working length 15 cm, for continuous
irrigation and suction for use with Nephroscope for
One Step Dilator and Applicator
Operating Sheath, 16.5/17.5 Fr., working length 15 cm, for continuous
irrigation and suction for use with Nephroscope for
One Step Dilator and Applicator
Grasping Forceps for Foreign Bodies, 5 Fr., double action jaws, flexible,
length 40 cm,
Biopsy Forceps, 5 Fr., double action jaws, flexible, length 40 cm,
Scissors, single action jaws, 5 Fr., flexible, length 40 cm, for use with
Nephoscope for
Grasping Forceps, rigid, for large stones and stone fragments,
3 expanding jaws and small fixation spikes, with spring handle,
length 36 cm, for use with Nephroscope for and
instrument port

<table>
<thead>
<tr>
<th>7 NEPHROSCOPE (MIP C111- L)</th>
<th>large size</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nephroscope for MIP L, with angled eyepiece, 19.5 Fr., HOPKINS® rod lens</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
system 12°, length 22 cm, autoclavable, 12.4 Fr. working channel for use with instruments up to 11.5 Fr., fiber optic light transmission incorporated, for use with Operating Sheaths and Instrument Port

The following accessories are included in delivery:

Instrument Port
LUER-Lock Tube Connector, male
LUER-Lock Tube Connector
Insertion Aid
Silicone Leaflet Washer, package of 10
Seal, package of 10
Wire Tray
Dilator for MIP L, with central channel and a second eccentric channel for guide wires, for use with 23/24 Fr. Operating Sheaths
Operating Sheath, 23/24 Fr., working length 15 cm, for continuous irrigation and suction, for use with Nephroscope for Dilator and Applicator
Operating Sheath, for the supine position, 23/24 Fr., working length 18 cm, for continuous irrigation and suction, for use with Nephroscope

One Step Dilator and Applicator
Applicator for Sealant, including sheath and rod, for use with Operating Sheaths
Forceps, for grasping stone fragments and coagula, with fenestrated jaws and U-spring handle, 11.5 Fr., length 38 cm,

<table>
<thead>
<tr>
<th>8 URS (ADULT)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Uretero-Renoscope, 8 Fr., 6°, length 43 cm, distal tip 7 Fr., instrument sheath</td>
<td>1</td>
</tr>
</tbody>
</table>
8 Fr., one-step, 12 Fr., autoclavable, with angled eyepiece, fiber optic light transmission incorporated, 2 lateral irrigation ports and 1 working channel 5 Fr., for use with instruments up to 4 Fr.

**The following accessories are included in delivery:**
- Uretero-Renoscope
- Insertion Aid
- Instrument Port with Sealing System and Quick Release Lock
- LUER-Lock Tube Connector, male
- LUER-Lock Tube Connector, with stopcock
- Seal, package of 10
- Flow Control Stopcock
- Wire Tray
- PEREZ CASTRO Forceps, long jaws for Steinstrase, rigid, double action jaws, 4 Fr., length 60 cm, 1
- Grasping Forceps for stone fragments, double action jaws, 4 Fr., rigid, length 60 cm, 1
- Biopsy Forceps, rigid, double action jaws, 4 Fr., length 60 cm, 1
- Grasping Forceps for large stone fragments, double action jaws, 4 Fr., rigid, length 60 cm, 1
- Stone Basket, nitinol, with tip, helical, 2.5 Fr., length 120 cm, 4 wires, basket diameter 16 mm, sterile, for single use, 1

<table>
<thead>
<tr>
<th>CYSTOSCOPE (ADULT)</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telescope 30°, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated, Cystoscope-Urethroscope Sheath, 22 Fr., with stopcocks at the proximal end,</td>
<td>1</td>
</tr>
</tbody>
</table>

**Consisting of:**
Sheath
Obturator and 2 LUER-Lock cones
Cystoscope-Urethroscope Sheath, 17 Fr., with stopcocks at the proximal

**Consisting of:**
Cystoscope-Urethroscope Sheath
Obturator and 2 LUER-Lock Cones
Telescope Bridge, with 2 lockable channels
Catheter Deflecting Mechanism with 2 lockable channels, with ratchet,
filling rod included
Grasping Forceps for removal of foreign bodies, 7 Fr. double action jaws,
flexible, length 40 cm
Biopsy Forceps, 7 Fr., double action jaws, flexible, length 40 cm
Coagulating Electrode, 4 Fr., unipolar, length 53 cm
Unipolar High Frequency Cord, with 4 mm plug, length 300 cm, for models

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10 | **URETHROTOME (ADULT)** | 1
---|---|---
Telescope 30°, diameter 4 mm, length 30 cm,
autoclavable, fiber optic light transmission incorporated,
SACHSE Urethrotome Sheath, 21 Fr., with channel for FILIFORM bougies

**Consisting of:**
SACHSE Urethrotome Sheath and 2 LUER-Lock cones
Obturator, for urethrotome sheath, 21 Fr.,
Telescope Bridge, with channel for instruments up to 5 Fr.
Supplementary Sheath, half-round, to insert a balloon catheter,
to slip on urethrotome sheath
Supplementary Sheath, for continuous irrigation and suction, to slip on

Urethrotome Sheath

**Consisting of:**
Supplementary Sheath Sealing cap and LUER-Lock cones
Working Element (also for use with optical Urethrotome) Motion by means
of a spring. The thumb support is movable. In rest position the electrode
is inside the sheath.
Cold Knife straight, not to be used with HF current

<table>
<thead>
<tr>
<th>11 RESECTOSCOPE (ADULT) MONOPOLAR</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>Telescope 30°, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated, Working Element Motion by means of a finger grip. In rest position the electrode is outside the sheath. Resectoscope Sheath, 26 Fr., oblique beak, rotating inner sheath with ceramic insulation, color code: yellow</td>
<td></td>
</tr>
</tbody>
</table>

**Consisting of:**
- Resectoscope Sheath
- Inner Sheath
- Connecting Tube for In- and Outflow
- Standard Obturator, for 24/26 Fr. Sheaths
- ELLIK Evacuator
- Cutting Loop angled, 24/26 Fr.,
- Unipolar High Frequency Cord, with 4 mm plug, length 300 cm,

<table>
<thead>
<tr>
<th>12 BIPOLAR RESECTOSCOPE (ADULT)</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>Telescope 30°, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated, Electrome,</td>
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</tbody>
</table>

**Consisting of:**
- Working Element
- Cutting Loop, bipolar
- Coagulation Electrode, bipolar
- Bipolar High Frequency Cord
- Protection Tube
Resectoscope Sheath, 26 Fr., oblique beak, rotating inner sheath with ceramic insulation,

**Consisting of:**
Resectoscope Sheath
Inner Sheath
Connecting Tube for In- and Outflow
SCHMIEDT Visual Obturator, for use with sheaths 24/26 Fr.,
Cutting Loop, bipolar, 24/26 Fr., for use with Telescopes
Bipolar High Frequency Cord,
High-End, power supply 220 - 240 VAC, 50/60 Hz,
including mains cord, HF connecting sockets unipolar: 2x 3-pin US type 5mm
2x 4 mm connector (via footswitch)
Two-Pedal Footswitch with button for switchover function,
Bipolar High Frequency Cord, length 400 cm,
Neutral Electrode, reusable, of conductive silicone, with 2 rubber ties
Connecting cord neutral electrode,
VapoEnucleation Electrode, hemispherical, 24/26 Fr.,
Vaporization Electrode, half moon®, bipolar, ball-shaped, 24/26 Fr.,

Surgical electrode set,

**Consisting of:**
Box with lid and sterilization insert for 16 electrodes with 4 mm Ø
Wire Snare, 5 mm
Wire Snare, 10 mm
Ribbon Snare, 10 mm
KIRSCHNER Knife Electrode, angled
MAGENAU Knife Electrode, angled
Knife Electrode, lancet-shaped.
Ball Electrode, 2 mm
Ball Electrode, 4 mm
- Ball Electrode, 6 mm
- Needle Electrode
- Flat Electrode, 8x10 mm
- Flat Electrode, 10x15 mm. For use with handles 20530143, 26520043, 26520046,

<table>
<thead>
<tr>
<th>13</th>
<th>OPTIC CYSTO URETHRO FIBERSCOPE</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Cysto-Urethro-Fiberscope, deflection of distal tip 210°/140°, direction of view 0°, angle of view 110°, working channel inner diameter 7 Fr., sheath size 15.5 Fr., working length 37 cm, <strong>Consisting of:</strong> Cysto-Urethro-Fiberscope Case Grasping Forceps Biopsy Forceps Leakage Tester Pressure Compensation Cap Cleaning Brush LUER-Adaptor Stone Basket, nitinol, with tip, helical, 2.5 Fr., length 120 cm, 4 wires, basket diameter 16 mm, sterile, for single use Coagulating Electrode, unipolar, 4 Fr., length 73 cm Seal, for Instrument Ports Plastic Container for Sterilization, specially suited for gas and hydrogen peroxide (Sterrad®) sterilization and storage, perforated, with lid, for use with flexible endoscopes up to max. 39 cm working length, external dimensions (w x d x h): 690 x 170 x 92 mm</td>
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<thead>
<tr>
<th>14</th>
<th>VIDEO CYSTOSCOPE</th>
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<tbody>
<tr>
<td></td>
<td>Video Cysto-Urethroscope C-VIEW KIT, steerable, working channel inner diameter 6.5 Fr., direction of view 0°, angle of view 120°,</td>
<td></td>
</tr>
</tbody>
</table>
sheath size 16 Fr., working length 37 cm

**Following accessories are included:**
- CMOS Video Cysto-Urethroscope C-VIEW
- Case
- Grasping Forceps
- Biopsy Forceps
- Pressure Compensation Cap
- Leakage Tester
- Cleaning Brush
- LUER-Adaptor
- Cleaning Adaptor, for Instrument Ports
- Monitor for CMOS Endoscopes, Kit, screen size 7" with 1280 x 800 pixel resolution, two camera inputs, a USB and a HDMI port, optimized user interface, video and image capturing in real time on SD card, playback of recorded video clips and still images, data transfer from SD card to USB flash drive possible, splash-proof according to IP54, suitable for wipe disinfection, shock-resistant ABS plastic housing, intelligent power management with rechargeable Li-Ion batteries,
- VESA 75 mounting option, power adaptor for EU, UK, USA and Australia, power supply 110 - 240 VAC, 50/60 Hz

**Consisting of:**
- C-MAC® Monitor
- SD Card 8GB
- Protection Cap
- VESA 75 Quick Clip ET27-30-0004943 Power Supply Set
- Stand for CMAC Mounting Stainless Steel Made
Plastic Container for Flexible Endoscopes, suitable for gas and hydrogen peroxide (Sterrad®) sterilization and storage, external dimensions (w x d x h): 550 x 260 x 90 mm, for use with a flexible endoscope

<table>
<thead>
<tr>
<th>VIDEO URS</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>Video Uretero-Renoscope, Kit steerable, compatible with Image 1 s, Working channel 3.6 Fr., Direction of view: 0°, Angle of view: 90°, Working length: 70 cm, Sheath size: 8.5 Fr., Following accessories are included in delivery: Case Pressure Compensation Cap Leakage Tester Cleaning Brush Luer-Adaptor, with seal connect module, for use with up to 3 link modules, resolution 1920 x 1080 pixels, with integrated and digital Image Processing Module, power supply 100 - 120 VAC/200 - 240 VAC, 50/60 Hz Including: Mains Cord, length 300 cm DVI-D Connecting Cable, length 300 cm SCB Connecting Cable, length 100 cm USB Flash Drive, 32 GB USB Silicone Keyboard, with touchpad, US link module, for use with flexible video endoscopes and one-chip camera heads (up to FULL HD), power supply 100-120VAC/200-240VAC, 50/60 Hz, Including:</td>
<td>1</td>
</tr>
</tbody>
</table>
Mains Cord, length 300 cm  
Link Cable, length 20 cm for use with CONNECT  
Video Endoscope Adaptor, color systems PAL/NTSC, length 60 cm, for use with 27" FULL HD Monitor, color systems PAL/NTSC, max. screen resolution 1920 x 1080, image format 16:9, Interface: RS 232, power supply 85-264VAC, 50/60 Hz, wall mount with VESA 100 adaptor  
Including:  
External 24 VDC Power Supply Mains Cord  
Equipment Cart rides on 4 antistatic dual castor wheels powder coated with shelves and drawz (Locally supply)  

<table>
<thead>
<tr>
<th>16</th>
<th>IMAGE 1S FULL HD 3CHIP CAMERA SYSTEM</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>connect module, for use with up to 3 link modules, resolution 1920 x 1080 pixels, with integrated and digital Image Processing Module, power supply 100 - 120 VAC/200 - 240 VAC, 50/60 Hz</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
| Including:  
Mains Cord, length 300 cm  
DVI-D Connecting Cable, length 300 cm  
SCB Connecting Cable, length 100 cm  
USB Flash Drive, 32 GB  
USB Silicone Keyboard, with touchpad, US  
link module, for use with IMAGE1 FULL HD three-chip camera heads, power supply 100 - 120 VAC/200 - 240 VAC, 50/60 Hz | 1 |
| Including:  
Mains Cord, length 300 cm  
Link Cable, length 20 cm for use with CONNECT | 1 |
Three-Chip FULL HD Camera Head, S-technologies available, progressive scan, soakable, gas- and plasma-sterilizable, with integrated Parfocal Zoom Lens, focal length f = 15 - 31 mm (2x), 2 freely programmable camera head buttons, for use with S-Technologies only available for Power LED 175 SCB, with integrated high-performance LED and one light outlet, power supply 110 - 240 VAC, 50/60 Hz

**Including:**
- Mains Cord
- SCB Connecting Cable
- Fiber Optic Light Cable, with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 250 cm

27” FULL HD Monitor, color systems PAL/NTSC, max. screen resolution 1920 x 1080, image format 16:9, Interface: RS 232, power supply

85 - 264 VAC, 50/60 Hz, wall mount with VESA 100 adaptor

**Including:**
- External 24 VDC Power Supply Mains Cord
- Equipment Cart rides on 4 antisctatic dual castor wheels powder coated with shelves and drawz (**Locally supply**)
Repetition rate: 4/6/8/10/12/15/17/20/22/25/27/30 Hz
Pulse duration: 90 … 2000 μs
Energy: 0.2/0.4/0.6/0.8/1.0/1.2/1.4/1.6/1.8/2.0/2.5/3.0
/3.5/4.0 J (max. 4.8 J)
Fiber types: Bare fiber, 230 μm, 365 μm, 600 μm fiber
Fiber connection: Fiber recognition via modified SMA fiber connector
Divergence: 0.22 mrad half-angle
Aiming beam: < 5 mW, 532 nm
Power supply: Universal power supply unit 100 … 240 VAC
Power frequency: 50/60 Hz
Current max. consumption: max. 15 A
Cooling: Integrated water cooling system with water/air - heat exchanger
Dimensions: 610 x 300 x 430 mm
Weight: 35 kg (incl. 2kg cooling water)

Storage/transport conditions:
Temperature: -10°C … 60°C
Humidity: 5% … 95% (rel. humidity, non-condensing)

Operating conditions:
Temperature: 18°C…28°C
Humidity: 30% … 70% (non-condensing)
Atmosph. Pressure: 700 … 1060 hPa

Consisting of:
Main unit
Mains Cord
One-Pedal Footswitch
Key Set
Remote Interlock Connector
Safety Goggles Ho:YAG LASER, 2080 nm
Ion Exchanger
Fiber, 230 μm, reusable, sterile, length 300 cm,
package of 6, for use with system
Fiber, 365 µm, reusable, sterile, length 300 cm,
package of 6, for use with system
Fiber, 600 µm, reusable, sterile, length 300 cm,
package of 6, for use with system
Fiber Stripper Set, sterilizable,
**including**
Fiber Stripper 230 µm,
Fiber Stripper 365 µm,
Fiber Stripper 600 µm,
Ceramic Knife,
Silicone Pad,
Instruction for use

<table>
<thead>
<tr>
<th>18</th>
<th>NEPHYROSCOPE (PAEDS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telescope 6 °, with angled eyepiece, autoclavable, with working channel 5 Fr., fiber optic light transmission incorporated, <strong>Including:</strong> 2 x Sealing Cap Telescope Bougie Set, for tract dilation <strong>Consisting of:</strong> Telescope Bougie Set, 3 dilator sleeves, 9, 12 and 15 Fr. Guide Wire, rigid Guide Wire, flexible Paediatric Operating Sheath, PCNL, 17 Fr., for percutaneous nephrolithotomy, <strong>Consisting of:</strong> Paediatric Operating Sheath, including in- and outflow tubes and 2 LUER-Lock cones Hollow Obturator and Fascial Dilator Grasping Forceps for stone fragments, double action jaws, 5 Fr., length 30 cm</td>
<td>1</td>
</tr>
</tbody>
</table>
Grasping Forceps for larger stones and fragments, double action jaws, 5 Fr., length 30 cm
Biopsy Forceps, double action jaws, 5 Fr., length 30 cm

LED Nova 150, High-Performance LED Cold Light Fountain with one light outlet, power supply 100 - 240 VAC, 50/60 Hz

Including:
400A (Mains cord)
Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 180 cm

Lithoclast system (with suction irrigation & stone breaking technology)

<table>
<thead>
<tr>
<th>19</th>
<th>URS Peads</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Paediatric Uretero-Renoscope, 7.3 Fr., 6&quot;, one-step, conical, 7.3-7.6 Fr., working length 25 cm, autoclavable, with angled eyepiece, fiber optic light transmission incorporated, 2 lateral irrigation ports and 1 working channel 3.6 Fr. for instruments up to 3 Fr., with instruments port 27001G, sealing and cleaning adapter Forceps for grasping stone fragments, rigid, double action jaws, 3 Fr., length 60 cm, color code: green LED Nova 150, High-Performance LED Cold Light Fountain with one light outlet, power supply 100 - 240 VAC, 50/60 Hz Including: 400A (Main Cord)</td>
</tr>
<tr>
<td>20</td>
<td>CYSTOSCOPE (PAEDS)</td>
</tr>
<tr>
<td>----------------</td>
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</tr>
<tr>
<td></td>
<td>Tele- scope 0°, ø 1.9/2.1 mm, autoclavable,</td>
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<tr>
<td></td>
<td>fiber optic light transmission incorporated,</td>
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<tr>
<td></td>
<td>Cystoscope-Urethroscope Sheath, 9.5 Fr., working length 14 cm, with</td>
</tr>
<tr>
<td></td>
<td>4 Fr. working channel,</td>
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<tr>
<td></td>
<td>Consisting of:</td>
</tr>
<tr>
<td></td>
<td>Cystoscope-Urethroscope Sheath</td>
</tr>
<tr>
<td></td>
<td>Obturator and 2 LUER-Lock Cones</td>
</tr>
<tr>
<td></td>
<td>Cystoscope-Urethroscope Sheath, 11 Fr., working length 14 cm, with</td>
</tr>
<tr>
<td></td>
<td>5 Fr. working channel,</td>
</tr>
<tr>
<td></td>
<td>Consisting of:</td>
</tr>
<tr>
<td></td>
<td>Cystoscope-Urethroscope Sheath</td>
</tr>
<tr>
<td></td>
<td>Obturator and 2 LUER-Lock Cones</td>
</tr>
<tr>
<td></td>
<td>Grasping Forceps double action jaws, flexible, 3 Fr., length 28 cm</td>
</tr>
<tr>
<td></td>
<td>Biopsy Forceps, 3 Fr., double action jaws, flexible, length 28 cm</td>
</tr>
<tr>
<td></td>
<td>Biopsy Forceps, 3 Fr., double action jaws, flexible, length 28 cm</td>
</tr>
<tr>
<td></td>
<td>Coagulating Electrode, 3 Fr., unipolar, length 53 cm</td>
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<tr>
<td></td>
<td>Needle Electrode, 3 Fr., unipolar, length 53 cm</td>
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</tbody>
</table>

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<thead>
<tr>
<th>21</th>
<th>URETHROTOME (PAEDS)</th>
<th>1</th>
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<tbody>
<tr>
<td></td>
<td>Tele- scope 0°, ø 1.9/2.1 mm, autoclavable,</td>
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<tr>
<td></td>
<td>fiber optic light transmission incorporated,</td>
<td>1</td>
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<tr>
<td></td>
<td>Working Element, motion by means of a spring. The thumb support is</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>movable. In rest position the electrode is inside the sheath.</td>
<td>1</td>
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<tr>
<td></td>
<td>Resectoscope Sheath, with LUER-Lock stopcock, 11 Fr., color code: green</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>consisting of:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Resectoscope Sheath</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Obturator and Connecting Tube for Inflow</td>
<td>1</td>
</tr>
<tr>
<td>22</td>
<td>RESECTOSCOPE (PAEDS)</td>
<td></td>
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<tr>
<td></td>
<td>Urethrotome Sheath, with Luer-Lock stopcock, 10 Fr., Consisting of:</td>
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<tr>
<td></td>
<td>Urethrotome Sheath</td>
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<tr>
<td></td>
<td>Obturator and 2 Luer-Lock cones</td>
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<tr>
<td></td>
<td>Telescope Bridge, with 1 lockable channel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cold Knife, straight</td>
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<tr>
<td></td>
<td>Cold Knife, round</td>
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<tr>
<td></td>
<td>Cold knife, sickle-shaped</td>
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<tr>
<td></td>
<td>Cold knife, hook-shaped</td>
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<tr>
<td></td>
<td>Cutting Loop angled, color code: green</td>
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</tr>
<tr>
<td></td>
<td>Resectoscope Sheath, with Luer-Lock stopcock, 11 Fr., color code: green</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Consisting of:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Resectoscope Sheath</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Obturator and Connecting Tube for Inflow</td>
<td></td>
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<tr>
<td></td>
<td>Working Element, motion by means of a spring. The thumb support is movable. In rest position the electrode is inside the sheath.</td>
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<tr>
<td></td>
<td>Urethrotome Sheath, with Luer-Lock stopcock, 10 Fr., Consisting of:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Urethrotome Sheath</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Obturator and 2 Luer-Lock cones</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Telescope Bridge, with 1 lockable channel</td>
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</table>

Note:
The Biomedical Equipments shall meet the Certification (FDA/CE/MHLW) where applicable
Country of Manufacture: Preferably - USA/Europe/Japan