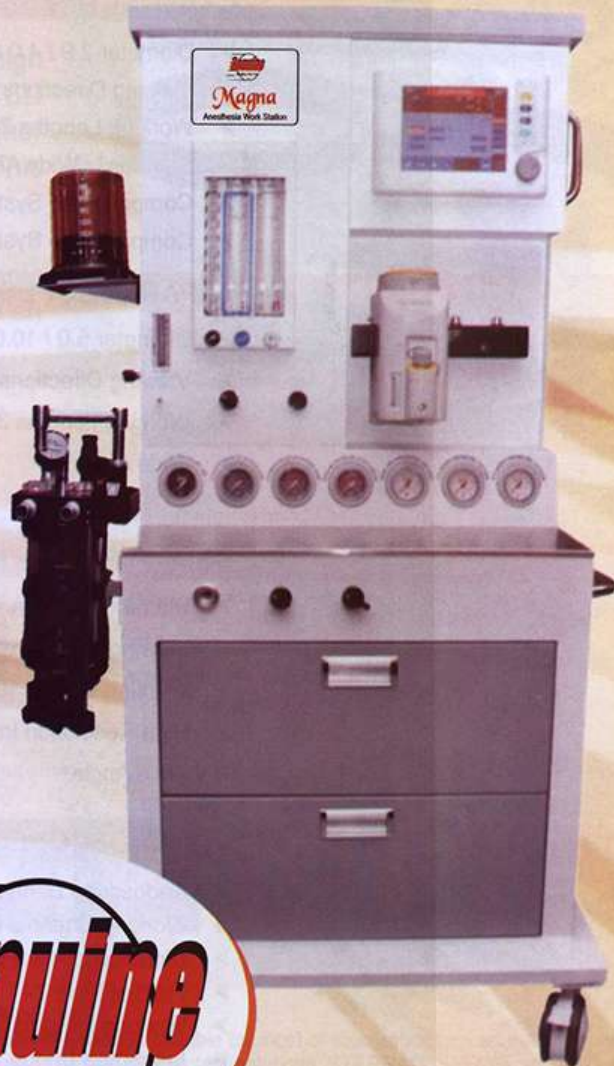


# GENUINE MEDICA PVT. LTD.





Made by



## RIGID ENDOSCOPE: TELESCOPES

### CYSTOSCOPES



- Diameter 2.9 / 4.0 mm
- Viewing Directions 0° / 5° / 12° / 25° / 30° / 70°
- Working Lengths 280 / 298 / 300 / 302 / 303 mm
- Standard / Wide Angle
- Compatible to System Storz
- Compatible to System Wolf / Olympus on special request

### LAPAROSCOPES



- Diameter 5.0 / 10.0 mm
- Viewing Directions 0° / 30° / 45°
- Working Lengths 312 / 344 mm
- Wide Angle

### SEMI-FLEXIBLE MINI-ENDOSCOPES



- Diameter 2.0 mm
- Viewing Directions 0° / 30°
- Working Length 196 mm
- High Resolution Image Bundles up to 50,000 pixels
- Wide Angle

### NEPHROSCOPES



- Endoscope Diameter 13.5 / 19 Fr.
- Working Channel Diameter 6 / 10 Fr.
- Direction of View 8°
- Field of View 84°
- Working Lengths 200 / 220 / 320 mm
- Instrument Bridge and Nephroscope Sheaths

### URETERO-RENOSCOPES



- Working Diameter Distal 6.0 / 7.5 Fr.
- Working Channel Diameter 1 x 4 Fr. or 2 x 2.4 Fr. / 1 x 5 Fr. or 2 x 3 Fr.
- Direction of View 8° to Working Channel
- Field of View 100° / 85°
- Working Lengths 310 / 425 mm
- Detachable Instrument Bridge

### NASO-PHARYNGOSCOPES



- Wide angle, multi-lens objectives for excellent image quality
- Three different models to suit every application and budget
- Excellent ergonomics allows one hand operation
- Suitable for mechanical cleaning and disinfection

TECHNICAL DATA	DIAMETER	WORKING LENGTH	DIRECTION OF VIEW	FIELD OF VIEW	DEPTH OF FIELD	TIP DEFLECTION	IMAGE BUNDLE	ITEM NUMBER
	3.2 mm	300 mm	0°	85°	6 - 1,000 mm	2 x 140°	16k	31.1003s
	3.2 mm	300 mm	0°	70°	6 - 1,000 mm	2 x 140°	7k	31.1001s
	3.8 mm	300 mm	0°	85°	6 - 1,000 mm	2 x 120°	12k	31.0001s

Each naso-pharyngoscope comes with a lightweight aluminium carrying case, leakage tester and a light guide.  
Left hand versions are available on special request.



## 1150 PORTABLE ENDOSCOPY CAMERA

*A low-cost portable endoscopy camera*



0434

**CYMO**



### FEATURES:

- Ultra- high sensitive CCD image sensor



From conventional camera



From 1156 endoscopy camera

- 10-bit digital image processing

The full 10-bit digital image processing provides high dynamic image and excellent colour rendition.

- White balance function

Automatic white balance via push button, current settings stored in memory.

- Five user settings for different endoscopic conditions

The camera offers five user settings to optimize the illumination condition for different endoscopes.



(A)



(B)



(C)



(D)



(E)

- Digital anti-moire function

The digital anti-Moire function can reduce the Moire effects when using the camera with a fiber endoscope.

- On screen display

1150 camera equips a simple on-screen display (OSD), and thus gives the user feedback during camera adjustment.

- Water-proof camera head

The soakable camera head is suitable for most of sterilization procedures, such as fully immersible in cleaning and disinfectant solutions, STERRAD, STERIS, and ETO etc.

- Convenient control panel

Two control buttons on the front panel of the control unit optimally reduce the complexity of use. With the backlight of control buttons, the control function can be easily accessible even in a very dark room, for instance, and operation room.

### TECHNICAL DATA

Video system	PAL/ NTSC
Image sensor	1/3" Interline CCD-chip
	752 (H)× 582 (V) pixels (PAL)
	768 (H)× 494 (V) pixels (NTSC)
Scanning area	1/3"
Horizontal resolution	470 TV-lines
Minimum illumination	0.1 lux (F1.4)
Shutter speed	Fix: Fully shutter OFF
	Auto: 1/50s to 1/100000s (PAL)
	1/60s to 1/100000s (NTSC)
Signal-to-noise ratio	> 50dB
White balance	AUTO (Pushbutton)
Gain	AUTO/ OFF
User mode	For 5 users
Video Outputs	1× composite (BNC)
	1× Y/C (S-VHS)
Environment	+10°C- +40°C temperature
	30%- 75% relative humidity
Classification	Class I as per Annex VII of Directive 93/42/EEC with potential equalization

### CAMERA HEAD

Dimensions (Dia× L)	Ø30× 75mm
Weight	70g
Lens connection	C-mount
Cable length	2.5 meters
Protection	IPX7 (not on connectors)

### CONTROL UNIT

Dimensions (W×D×H)	120× 120× 35 mm
Weight	0.8 kg
Protection class	IP20
Line voltage	100- 240V AC@ 50-60 Hz
Power consumption	12W (max.)
Power tested acc. To	UL2601-1, EN60601-1, IEC601-1-2

### ORDERING DATA

C1150.00/01 1CCD Digital color video camera 1150 with adapter lens( PAL/NTSC).  
C1150.02/03 1CCD Digital color video camera 1150 without adapter lens.( PAL/NTSC)



# 1156.08 HIGH RESOLUTION ENDOSCOPY CAMERA WITH DVI OPTION



0434

## 1 CCD Endoscope Camera with HD Option



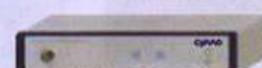

\*Optical coupler is optional, the camera head has a standard C-mount interface.

## KEY FEATURES:

- 1/3" CCD high sensitivity image
- Six types of endoscopy settings
- Freeze function
- 2.5 x digital zoom
- Mirror and flip function
- Rotation function
- Digital anti-Moire function for using with a flexible endoscope
- Illuminated control buttons on the front panel
- Programmable control buttons on the camera head
- High Definition output option, maximal resolution 1920x1200
- Patient information via an external keyboard

## Camera Control Unit (CCU) Outputs:

### 1156 CCU



RS232


Printer  
Peripherals

Remote Control

Recorder

PS/2

Composite Video

Keyboard

On Screen  
Patient Information  
(F1) HELP

DVI-D

ADAPTER CABLE

RGBHV

S-Video

Composite Video

HDMI

Analog HD Signal

VGA

Selectable HD Resolution

1024x768@60Hz

1280x1024@60Hz

1280x720p@50Hz

1280x720p@60Hz

1920x1080i@50Hz

1920x1080i@60Hz

1920x1080p@50Hz

1920x1080p@60Hz

1920x1200@60Hz



## TECHNICAL DATA

Video system	PAL/NTSC
Image sensor	1/3" CCD
Scanning system	Interlaced
Output pixels	752x582/768x494
Resolution	> 500TV Line
Signal-to-noise ratio	≥ 54dB
White balance	Auto (push button)
Gain	Auto / OFF/ Preset
Minimum illumination	0.1 lux
Endoscopic scene files	6
Frame rate	50 Hz / 60 Hz
Output signal	2 x S - Video 2 x Composite Video
Advanced settings	On Screen Display (OSD) Menu Patient Information (by external keyboard via PS/2 connector) Rs232 (on request)
Environment	0°C+40° temperature less than 90% relative humidity Class I BF
Classification	Class I BF

## CAMERA HEAD

Dimensions (Dia x L)	30 x 32 74 mm
Weight	80 g
Lens connection	C-mount
Cable length	3 meters
Sterilization	Soakable, IPX7
control Buttons	3

## CONTROL UNIT

Dimensions (W x H x D)	325 x 74 x 365 mm
Weight	5.1 kg
Protection class	IP 20
Line voltage	100-240 VAC @ 56-60 Hz
Fuse	2 x T1.0 AE / 250 V (IEC 127)
Power tested acc. to	UL2601- EN60601-1, IEC601-1-2

## ORDERING DATA

1156.08.01	1156 Camera Control Unit (PAL)
1156.08.02	1156 Camera Head (PAL)
1156.08.01	1156 Camera Control Unit (PAL)
1156.08.02	1156 Camera Head (PAL)

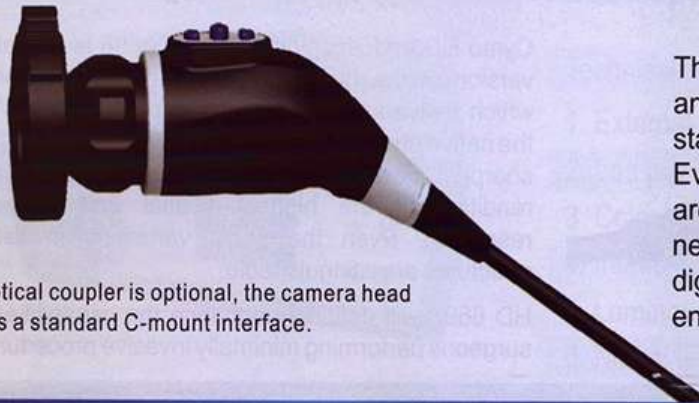


## 6160 HD ENDOSCOPY CAMERA WITH USB RECORDING



### A CMOS full high definition camera

**CYMO**



\*Optical coupler is optional, the camera head has a standard C-mount interface.

The 6160 camera delivers extremely clear and sharp image in full high definition standard by using a single CMOS solution. Even the finest details in tissue structures are distinguishable. The camera offer all necessary feature for surgical use such as digital zoom, freeze as well as digital edge enhancement.

### KEY FEATURES:

- 1/3" image sensor for full high definition use
- Full HD resolution 1920 x 1080 pixels (16:9)
- High sensitivity requires less light from illumination
- New image enhancement functions on clarity and color
- High interference immunity from electrosurgery
- Flexible filters for using with fiber flexible scope
- Full digital chain achieved on DVI-D, HDMI<sup>(1)</sup>, or 3G-SDI digital output
- Up to 2.5x digital zoom function and freeze function
- Mirror, flip, rotation function
- Full HD resolution video recording and image capturing (optional)

Note: <sup>(1)</sup> HDMI support via an adapter

### Advanced Image Enhancement

Original Image



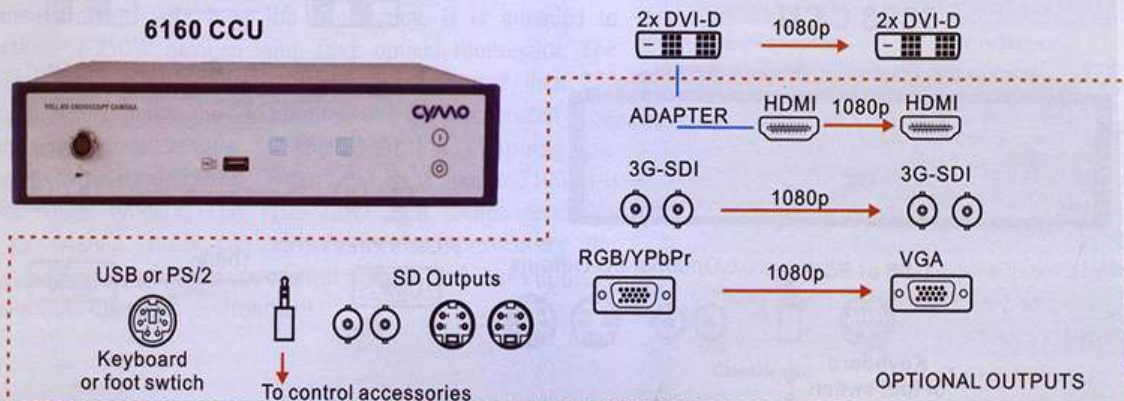
Clarity Enhancement



Color Enhancement



### Camera Control Unit (CCU) Outputs:





## 6698 HD ENDOSCOPY CAMERA WITH USB RECORDING



0434

A professional 3Chip full high definition camera

**CYMO**



\*Optical coupler is option, the camera head has a standard C-mount interface.

Cymo HD endoscopy camera HD6698 is the latest version of the high definition endoscopy camera, which delivers the clearest, sharpest picture. With the native progressive scan the HD6698 provides the sharpest detail with incomparable natural color rendition at the highest spatial and temporal resolution. Even the finest variations in tissue structures are distinguishable.

HD 6698 will definitely enhance the capabilities of surgeons performing minimally invasive procedures.

### KEY FEATURES:

- ■ ■ 3 1/3" 16:9 image sensors with more than 6Mega effective pixels in total
- ■ ■ High sensitivity requires less light from illumination
- ■ ■ New image enhancement functions on clarity and color
- ■ ■ High interference immunity from electrosurgery
- ■ ■ Flexible filters for using with fiber flexible scope
- ■ ■ Full digital chain achieved on DVI-D, HDMI<sup>(1)</sup>, or 3G-SDI digital output
- ■ ■ Up to 2.5x digital zoom function and freeze function
- ■ ■ Mirror, flip, rotation function
- ■ ■ Full HD resolution video recording and image capturing (optional)

Note: <sup>(1)</sup> HDMI support via included adapter.

### Advanced Image Enhancement

Original Image



Clarity Enhancement



Color Enhancement



### Camera Control Unit (CCU) Outputs:

#### 6698 CCU



USB or PS/2

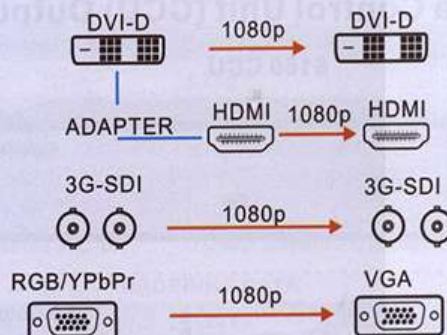


Keyboard or foot switch

Optional SD Outputs



To control accessories





## ENDOSCOPY LED LIGHT SOURCE



### Word Class LED Light Source For Medical Endoscopes and Microscopes

#### Technical parameters:

1. External Power Supply : 100-240V/AC 50/60 Hz
2. Led power: 150w
3. Color temperature: 5000K - 6000K
4. Intensity: 96,000Lx.
5. Luminous flux: 2160Lm.
6. Noise: less than 55dB
7. Shell temperature: less than 55°C
8. Safe type: I kind; BF type.

#### Unparalleled long life time of the LED lamp

The LED light source has more than 50,000 hour life time, longer than 250 halogen lamps or 100 Xenon lamps. The unparalleled long life LED solves the problem that many sellers have to spend a lot on traveling just for changing a tiny lamp for the anxious waiting doctors. The LED lamp will emit endless high intensity light without any pause or interrupt, and never be burned out suddenly as a halogen lamp. This advantage greatly reduces the chance of accidents caused by illuminating interruption during operation.

## Endoscopy Light Source 7100

*A highly efficient LED fiber-optic light source*

**Cymo**

**Super Silent** 



The Cymo LED endoscopy light source 7100 has very high efficiency and a very long life expectancy. It is intended to substitute a 250W halogen lamp fiber optical illuminator. The unparalleled long life time (>50,000 hours, longer than 250 halogen lamps) makes the LED light source the most cost-efficient illuminator, and results in the fact that changing the lamp is never needed. The Cymo LED light source 7100 is a Super Silent product. The 7100 LED light source generates no more than 30dB (A) airborne noise, preventing the annoying noise in the operation room and providing a comfortable operating environment.

#### TECHNICAL DATA

Color temperature	6000K
Lamp Life time	>50,000 hours
Dimming method	Auto or Manual
Video input	Via BNC Connector
Video format	Composite Video (SD) Y Component (SD or HD)
Light guide connector	Storz type (standard) ACMI, Olympus, and Wold (optional)
Advanced setting	External Triggering (optional)
Environment	0°C-40°C temperature Less than 75% relative humidity
Classification	CE Class I / BF



## CO2 INSUFFLATOR

The latest technology and the easy operation have come to move the new CO2 Insufflators into the top class of the newest generation. The ergonomic designed and logically arranged displays inform the user about all relevant values of the insufflations at any time.

### SALIENT FEATURES

- ♦ High pressure Co2 from the main cylinder can be connected direct to the insufflator
- ♦ Micro controller based closed loop technology ensures precise control of pressure/flow parameters
- ♦ Electronic memory retains last set values of pressure, flow rate and pumped gas volume
- ♦ Inbuilt gas warmer provides warm Co2 at trocar minimizing fogging and all disadvantages of chilled gas entering abdomen.
- ♦ Continuous gas flow controller ensures stable abdominal distention during surgery.
- ♦ Functional and user-friendly design.
- ♦ Compact & light weight.
- ♦ Various safety features & meets quality standards.
- ♦ Rapid delivery of gas & provide immediate response for all procedures.
- ♦ Advance high speed microcontroller technology; allow greater accuracy & measurement of CO2
- ♦ Over pressure alarm & pressure release systems; help assure patient safety.

### FRONT PANEL DISPLAYS AND CONTROLS

- ♦ Verss/trocar mode.
- ♦ Separate digital display for actual value and set value of pressure and flow rate.
- ♦ Pumped gas volume counter with Reset button.
- ♦ Display for actual gas consumption & temperature.
- ♦ Outlet gas temp with heater on indicator.
- ♦ CO2/Air mode button for emergency.
- ♦ CO2 gas status indicator.

### COMFORT FROM PAIN ADVANCE Co2 INSUFFLATOR



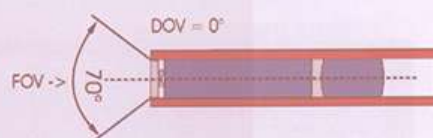
**VEGA 30L**

## SINGLE PUNCTURE LAPAROSCOPE

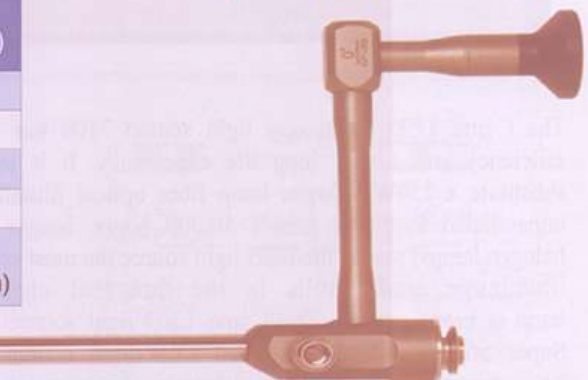
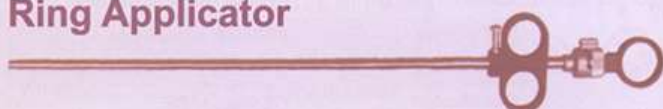
### Tubal Ligation

#### TECHNICAL DATA

Type	Operation Laparoscope (rigid endoscope with working channel)
Diameter	10.0 mm
Working length	268 mm
Direction of view (DOV)	0°
Field of view (FOV)	70°
Working channel	D = 6.0 mm / length = 329 mm (with optional adpter 24-0092-00: 372 mm)



### Ring Applicator



Extended Tip



Extended Tip  
with (1) Silastic Ring



Extended Tip  
with (2) Silastic Rings



## ELECTROSURGICAL UNIT



**Safety Features**  
Protection Class According to EN 60601-1  
Body Protected and cardiac protected design.  
FF leakage current < 150mA  
Patient Plate Monitoring Systems

Our new **VEGA Series** Plus is the most versatile **Electro Surgical Generator**. It offers features and performance never before available in a single generator.

The **VEGA Series** plus has spray coagulation which rivals the best spark gap generators and with minimum cutting effect. The blend gives a good Hemostasis effect than cutting and pure cut is exceptionally smooth and starts promptly even in irrigated procedures.

The isolated bipolar output, which has a non-sparking characteristic, is ideal for microsurgery, Neuro Surgery, Laparoscopy and other applications.

**VEGA Series** plus meets the surgeon's needs in the wide range of general procedures and in specialties including Gynecology, Urology, Neurology, Thoracic, Plastic and Reconstructive Surgery.

### TECHNICAL SPECIFICATION

#### CUT

MODE	MAX POWER	LOAD	CREAST FACTOR
PURE CUT	400 W	300 E	1.5
BLEND 1	250 W	300 E	1.5
BLEND 2	200 W	300 E	1.5
ENDOCUT	99%	300 E	1.5

#### COAG

MODE	MAX POWER	LOAD	CREAST FACTOR
SPRAY	120 W	300 E	7
FORCE	120 W	300 E	6.5
FULGURATE	150 W	300 E	6
DESSICATE	150W	300 E	6

#### BIPOLAR

MODE	MAX POWER	LOAD	CREAST FACTOR
MICRO	80 W	100 E	1.5
MACRO	80 W	100 E	1.5
CUT	100 W	100 E	1.5
AUTO	100 W	100 E	1.5



## VESSEL SEALER UNIT



**Top-level and Multifunctional Electrosurgical Generator with Ligation**  
CE 0434 and FDA verified (510K No. 130760)

### Intelligent Device System

The intuitive design and user-friendly set-up of the Electrosurgical Generator (diathermy) for us in the modern operating room, it features both monopolar and bipolar functions to satisfy all the surgeries demands with safety, flexibility, reliability and convenience.

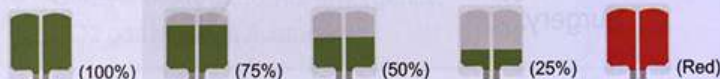
### Technical Features:

#### Touch screen

Electrosurgical system is controlled with a wide TFT LCD touch screen (8 inch), clean and shaper image quality, which provides the user with easy access to all diathermy functions. The settings or modes of operation are changed by touching icons on the screen. To ensure maximum ease of operation there are no extra buttons or knobs.

#### REM (Return Electrode Monitoring)

Return electrode contact quality monitoring system (REM). The REM system continually monitors patient impedance levels and deactivates the generator if a fault in the patient/return electrode contact is detected, which minimize the danger of burning incidents.



#### Automatic Self-Test

Once switched on, the systems perform a comprehensive internal test.

#### Two pencils work simultaneously

It can meet the special surgeries like Heart bypass operation and etc., which ensure two users can operate respectively without interference.

#### Time control feature

There is time control feature under bipolar coag modes. Time output rang from 0.1 to 2.0 seconds, which can be used for much delicate surgeries like Neurosurgeries and etc.

#### TURP Functions

Both under Monopolar modes and Bipolar modes This mode is used in under water environment for surgery especial Resectoscopy, which removes the tissue in the prostate with kinetic plasma under saline liquid.

#### Pulse output

Pulse Cut Technology provides control of cutting depth for critical dissections necessary for Endoscopic retrograde cholangiopancreatography (ERCP), which mainly for the Gastrointestinal (GI) range surgery. Pulse Coag Technology provides pulsing bursts of Coagulation energy for more control of hemostasis during the operations, which make sure less tissue carbonization.

#### Polypectomy Function

Special cutting modes necessary to remove polyps and the procedure of Papillotomy, alternating of cutting and coagulation enables achieving an optimal coagulation for this application and reduces the probability of bleeding.

### Technical Specification:

Main Frequency: 512 KHz

Power Supply: 100-240V / 50-60Hz

Dimension: 34\*16\*47

Weight: 7.3KG

### High Frequency leakage:

Monopolar: < 150mA;

Bipolar <60mA

### Low Frequency Leakage:

Normal Polarity, Intact Chassis Ground: <10μA

Normal Polarity, Ground open < 50μA

Reverse Polarity, Ground Open < 50μA

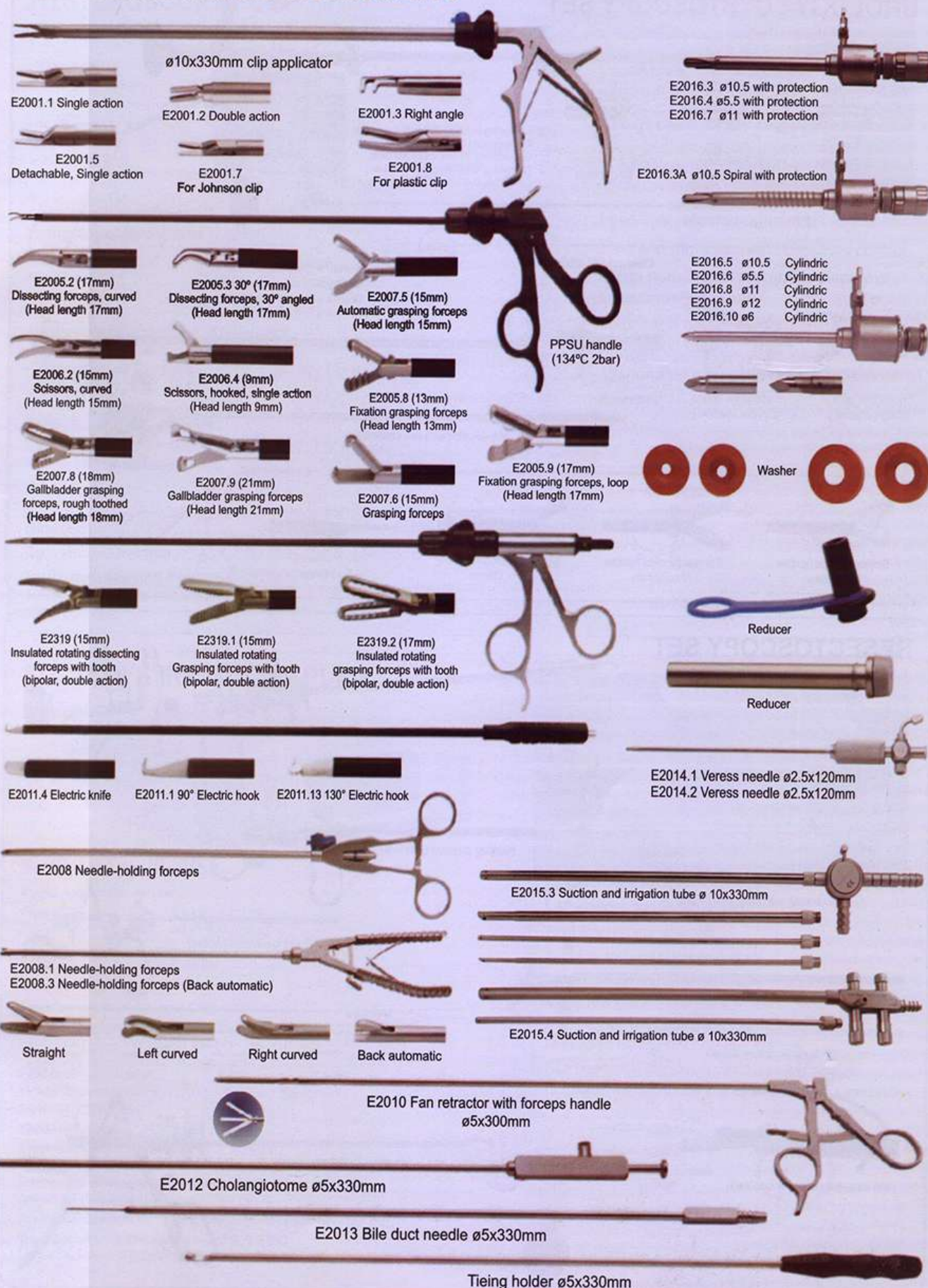
Sink Current, 140V Applied, All inputs < 50μA

### TECHNICAL SPECIFICATION

Working Mode		Max.output power	Rated Load	P-P Voltage	Crest Factor
Monopolar-Cut	Pure	400W	500Ω	1900v	1.5
	Blend 1	300W	500Ω	2600v	2.0
	Blend 2	250W	500Ω	2800v	2.2
	Blend 3	200W	500Ω	2800v	2.4
	URINARY 1	200W	500Ω	1500v	1.5
	URINARY 2	200W	500Ω	1900v	2.0
	POLYP 1	120W	300Ω	1200v	2.8
	POLYP 2	120W	300Ω	1400v	2.6
	MASTOID 1	80W	300Ω	1200v	6.8
	MASTOID 2	150W	300Ω	1400v	7.6
	MUCOSAL	100W	300Ω	1400v	4.2
	CARE	60W	500Ω	900v	1.5
	SOFT	120W	500Ω	1000v	1.5
Monopolar-Coag	SOFT	180W	500Ω	3000v	3.2
	FULGURATE	120W	500Ω	5500v	3.2
	URINARYCG1	120W	500Ω	2500v	3.2
	URINARYCG2	120W	500Ω	2600v	3.2
	CARE	60W	300Ω	1600v	3.2
	SICCATE	120W	300Ω	3000v	3.2
	SPRAY	120W	500Ω	7500v	7.0
	AIR	120W	500Ω	4000v	3.2
	ENDOCG	100W	300Ω	2200v	6.0
Bipolar-Cut	PURE	120W	100Ω	600v	1.5
	BLEND	100W	100Ω	600v	1.7
	SHEAR	100W	100Ω	550v	1.5
	TURP 1	120W	100Ω	700v	1.7
	TURP 2	100W	100Ω	600v	1.5
	TURB 1	120W	100Ω	700v	1.7
	TURB 2	100W	100Ω	600v	1.5
Bipolar-Coag	MACRO	100W	100Ω	700v	1.7
	MICRO	60W	100Ω	390v	1.5
	SEAL SAFE	300W	30Ω	450v	1.6
	ENDO SEALE	100w	50Ω	290v	1.6
	TUR	150W	100Ω	700v	1.7
	PRECISE	150W	100Ω	600v	1.5
	STANDARD	150W	100Ω	700v	1.7

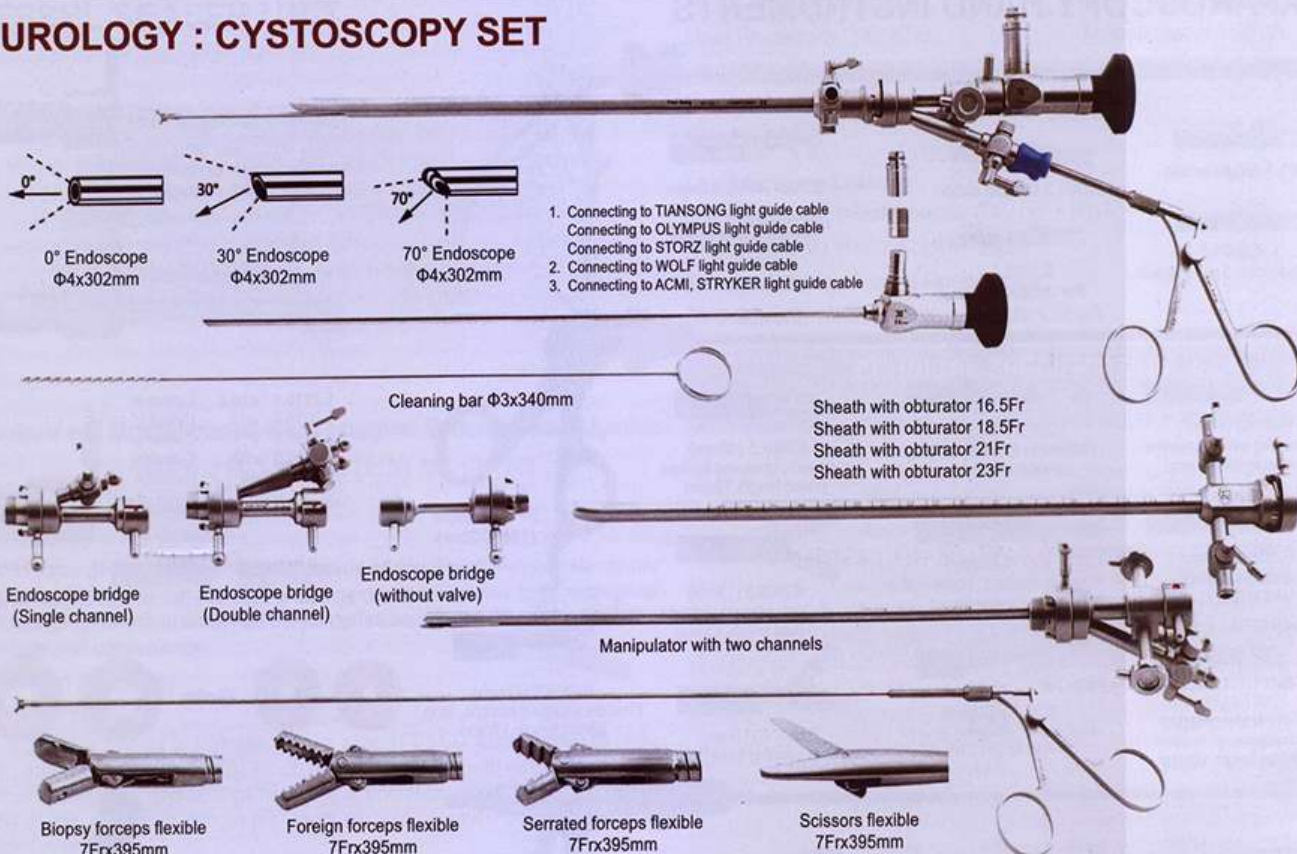


## LAPAROSCOPY HAND INSTRUMENTS

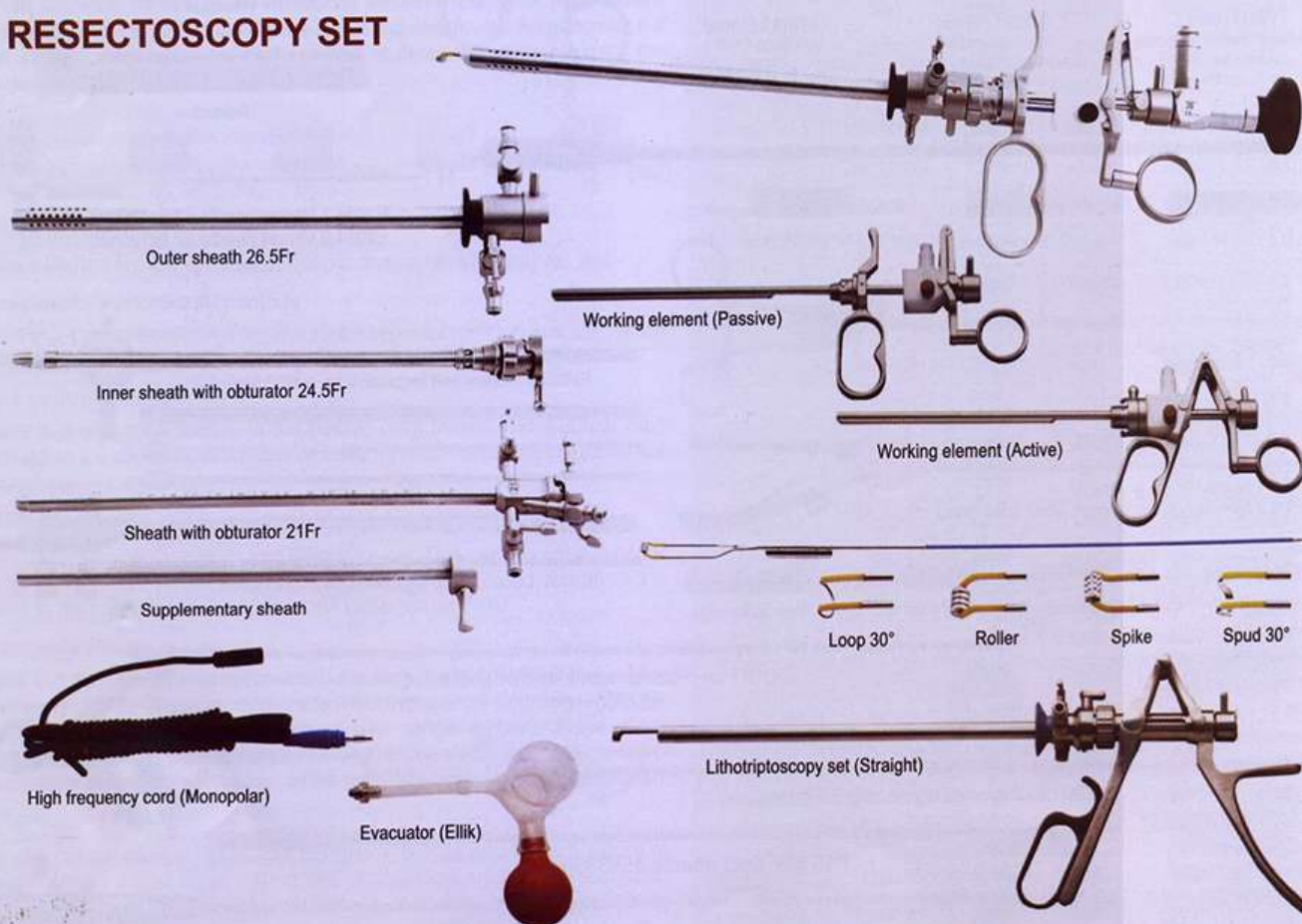




## UROLOGY : CYSTOSCOPY SET



## RESECTOSCOPY SET





## HYSTEROSCOPY PUMP



### Technical Specification

#### Pump Adjustable values

Flow .....0.1 to 1.0l/min  
Pressure Hyst .....20 to 300 mmHg

**Control:** .....Touch screen

- Complies with medical EMC standard.
- Class 1 Equipment.
- Water Ingress Protection , IPX0 - Ordinary Equipment.

**Size:** 310\*120\*330

**Weight:** 7 Kg

**Electrical :** Primary: 100-240 VAC , 50/60 Hz, Power Rating 150 VA , Fuses : Two

#### Environment:

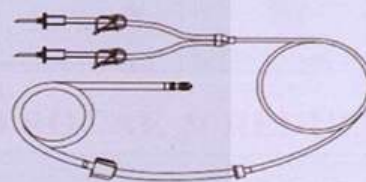
Storage and transportation conditions..... -20 to 70 °C

**Operating Condition :** 5-40°C , 30-95% Relative Humidity

**Transportation and Storage :** - 20°C to 60°C , 10%-75% Relative humidity  
700-1060 hpa

Pressure		Settings
Set	Actual	Preset 1
200 mmHg	100 mmHg	Preset 2
		Flush
Flow Rate	Consumed	
600 l / min	400 ml	

- Fluid flow rate management.
- Fast and more accurate pressure control.
- Large numeric and symbolic display of intrauterine pressure.
- Visual and acoustic overpressure and perforation alarm.
- Disposable tubings in D EHP-free material.
- Non-Disposable sterilizable connectors and tubings.



UL-2-H-1M Reusable Tubing Set

## SUCTION & IRRIGATION PUMP



### Technical Specification

#### Pump Adjustable values

Flow .....0.01 to 1.0l/min  
Pressure LAP .....50 to 400 mmHg

#### Suction :

LAP .....0.65 bar

**Control :** Touch screen & Foot Switch.

**Irrigation Control:** Trumpet Control.

**Suction Control:** Foot Switch. Auto irrigation cutoff when foot switch enabled for suction.

- Complies with medical EMC standard
- Class 1 Equipment
- Water Ingress Protection , IPX0 - Ordinary Equipment

**Size :** 310\*120\*330

**Weight :** 7 Kg

**Electrical :** Primary: 100-240 VAC , 50/60 Hz, Power Rating 150 VA , Fuses : Two

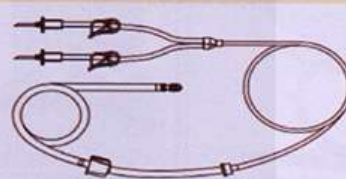
**EnvironmentStorage and transportation conditions..... -20 to 70 °C**

**Operating Condition :** 5-40°C , 30-95% Relative Humidity

**Transportation and Storage :** - 20°C to 60°C , 10%-75% Relative humidity  
700-1060 hpa

IRRIGATION	SUCTION
LOW	
MEDIUM	
HIGH	

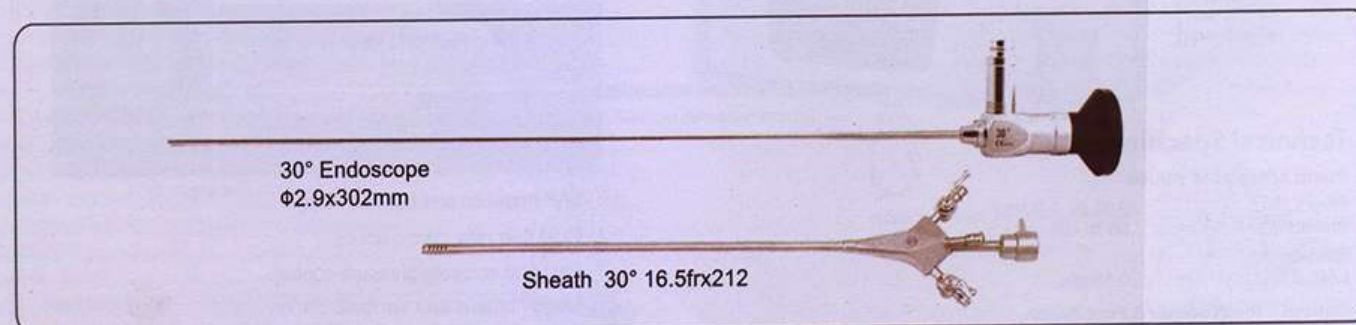
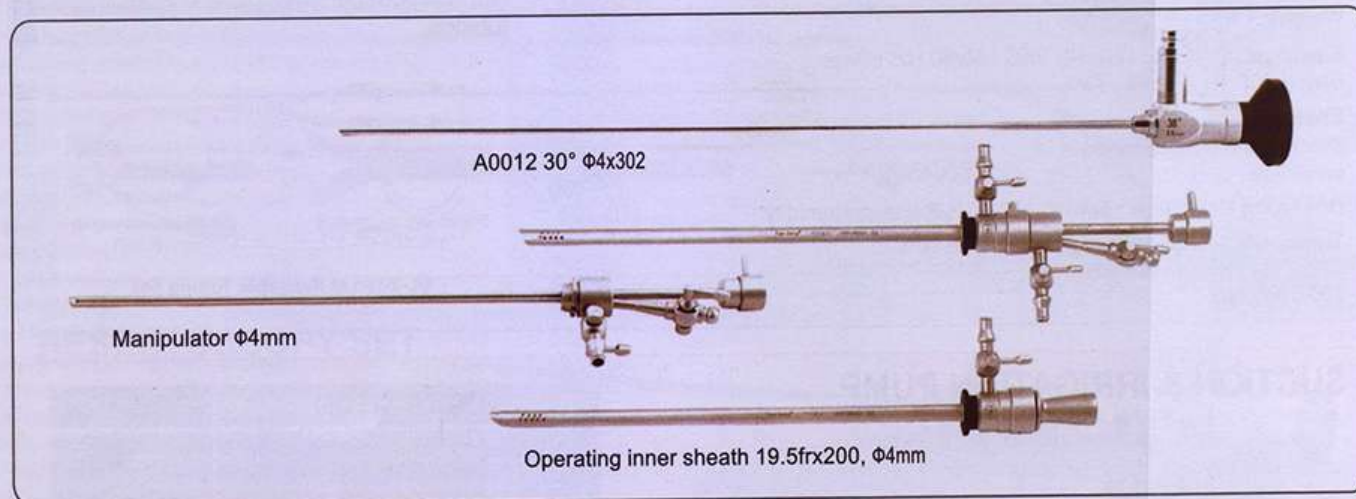
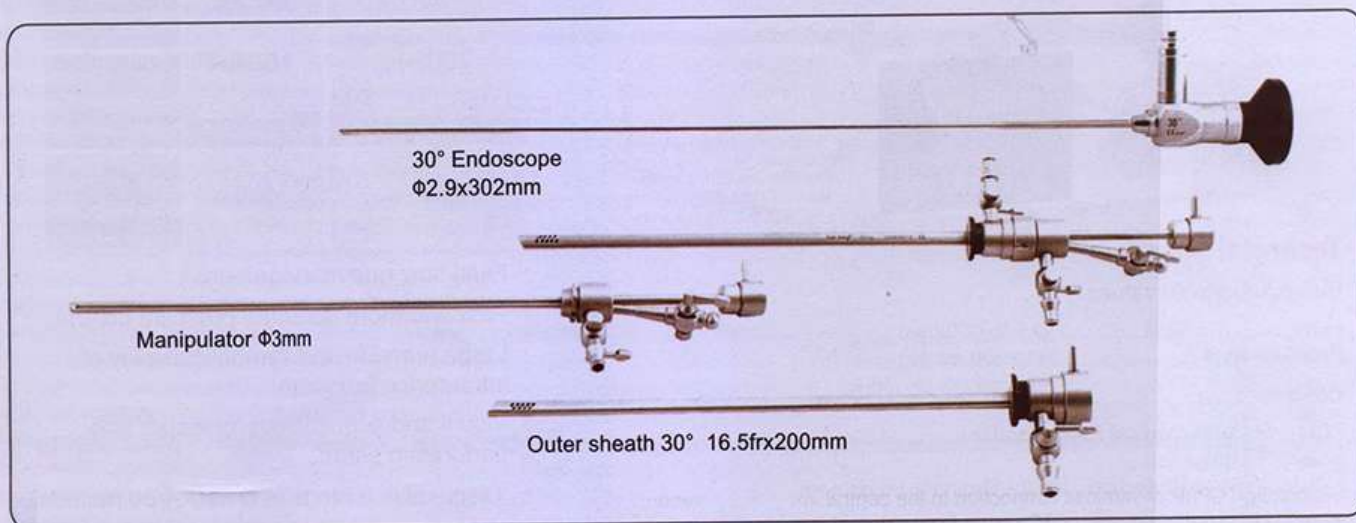
- LAP Irrigation and Suction Pump.
- Fluid flow rate management.
- Fast and accurate pressure control.
- Large numeric and symbolic display.
- Visual and acoustic overpressure and perforation alarm.
- Disposable tubings in D EHP-free material
- Non-Disposable sterilizable connectors and tubings.
- Calculates the fluid usage and warns before full consumption



UL-2-S-1M Reusable Tubing Set



# **GYAENOCOLGY : OFFICE HYSTEROSCOPY SET**





## GYAENOCOLOGY

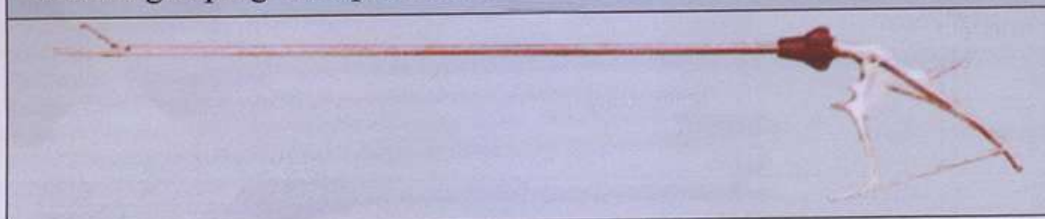
### MORCELLATOR



### CONTROL UNIT



#### Uterine grasping forceps, 10mm

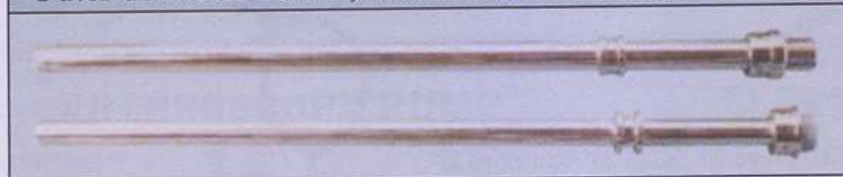


#### Hand Piece



### CUTTER

Outer diameter 10mm, Outer diameter 15mm  
Outer diameter 18mm, Outer diameter 20mm



### TROCAR & REDUCER



F2023 Trocar Cannula Ø 15mm



F2025 Reducer Ø15mm / Ø10mm

## COLPOSCOPE

### Functions and Features

- ❖ Chinese, English, Spanish, Russian operation system
- ❖ Can take photo by foots switch
- ❖ With acetic acid reaction countdown function
- ❖ With multifunctional imaging process and management software kit, can achieve the function of image collection and mark, partial magnification, video, freeze, output and so on.
- ❖ 175 kids of standard image database, can increase and edit
- ❖ With standard case model form, support many kids of diagnosis report and print output
- ❖ Can manage the medical record's return visit, search, and backup

Advancing of technology  
Promise of life



Camera



Controller



## ARTHROSCOPY SET



G0021 Wide angle 0°  $\varnothing$ 2.7x175mm

G0031 Wide angle 0°  $\varnothing$ 4x175mm

G0051 134° 2bar  
Wide angle autoclave  
0°  $\varnothing$ 4x175mm



G0022 Wide angle 30°  $\varnothing$ 2.7x175mm

G0032 Wide angle 30°  $\varnothing$ 4x175mm

G0052 134° 2bar  
Wide angle autoclave  
30°  $\varnothing$ 4x175mm

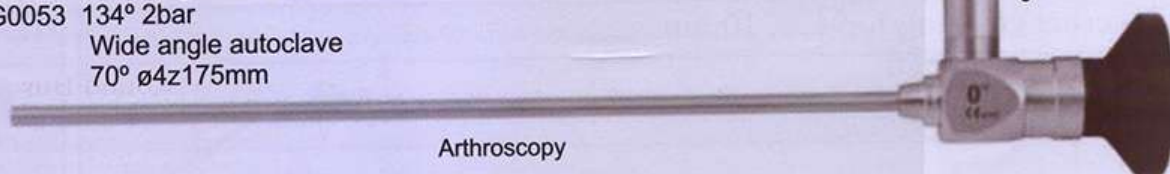


G0023 Wide angle 70°  $\varnothing$ 2.7x175mm

G0033 Wide angle 70°  $\varnothing$ 4x175mm

G0053 134° 2bar  
Wide angle autoclave  
70°  $\varnothing$ 4x175mm

1. Connecting to TIANSONG light guide cable Olympus  
Connecting to OLYMPUS light guide cable STORZ
2. Wolf  
Connecting to WOLF light guide cable
3. ACMI  
Connecting to ACMI STRYKER light guide cable



Arthroscopy



G2102  
Grasping forceps with tooth



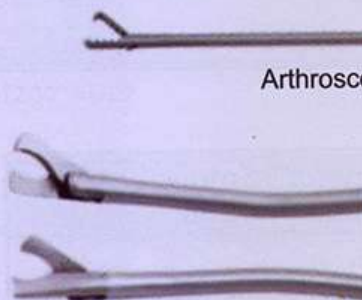
G2001  
Hooked scissors, straight



G2006  
Punch forceps, straight



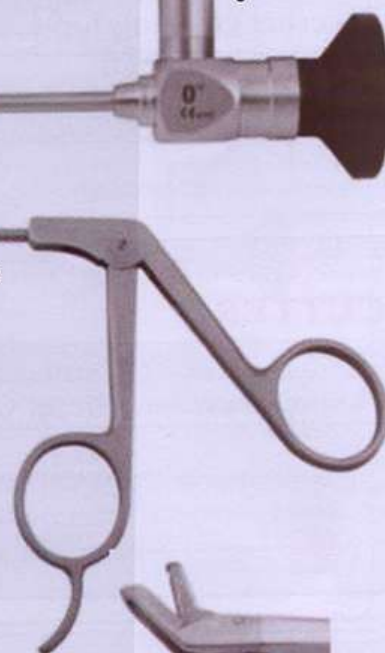
G2220 0° Punch forceps, wide head 0°  
G2221 0° Punch forceps, wide head 0°  
G2221.1 0° Punch forceps, wide head 0° left  
G2221.2 0° Punch forceps, wide head 0° right



Hooked scissors  
G2002 15° upward 15° G2003 30° left curved 30°  
G2004 15° Downward 15° G2005 30° Right curved 30°



Punch forceps  
G2007 15° upward 15° G2008 30° left curved 30°  
G2009 15° downward 15° G2010 30° right curved 30°



G2101 45°  
Punch forceps, head upward 45°



Punch forceps  
G2205 15° Upward 15° G2206 Left curved 30°  
G2207 30° Right curved 30° G2208 20° Upward 20°  
G2209 Straight left biting G2210 Straight right biting  
G2213 15° left curved 15° G2214 15° Right curved 15°

### Meniscus

G2202 Left down back biting  
G2203 Right down back biting  
G2211 Grasping forceps with tooth, clasp  
G2212 Grasping forceps with tooth



Detachable Punch forceps

G2201  
Meniscus, straight biting

G2204  
Punch forceps, straight



## ARTHROSCOPY

### SHAVER SYSTEM



Control Unit

Cutter,  
without tooth



Cutter, inside  
with tooth



Handle with motor



Round Bur



Cutter, inside with tooth  
Cutter, without tooth

Cutter, inside & outside with tooth  
Round Bur



Cutter, inside &  
outside with tooth



## ARTHROSCOPY PUMP



#### Specifications :

- Ideal system for "Arthroscopy Fluid Management"
- Irrigation pressure and flow rate electronically controlled
- Digital displays of flow and pressure ratings.
- Pre-selectable values for irrigation pressure retained in memory while Unit is switched off.
- Autoclavable tube set and easy loading of tube.
- Filter prevents liquid media to come in contact with sensor.
- Irrigation pressure: 0 to 200mmHg
- Liquid flow: 0 to 900 ml/min.
- Power supply: 230 (AC)/50Hz±10%

## ELECTRONIC TOURNIQUET



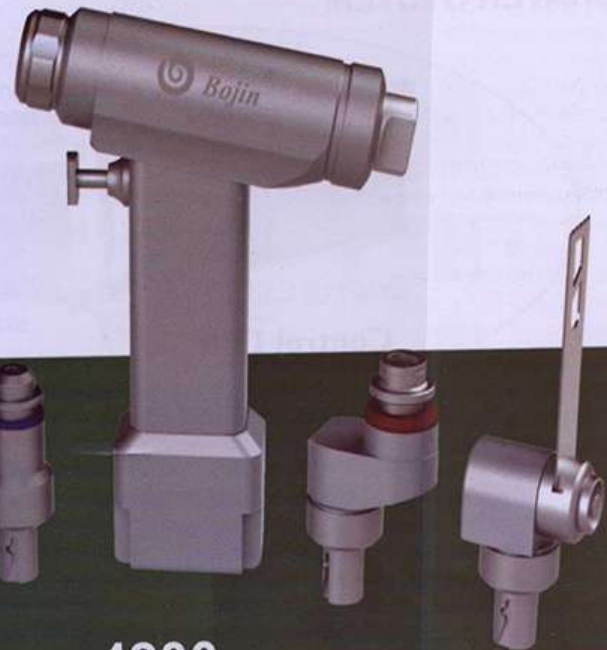
#### Specifications :

- Cuff pressure Range : 10 to 420 mmHg
- Pressure regulation : + 10 mmHg of set point
- Online setting: increase and decrease in pressure settings
- Timer: Range from 9 hrs to 59 minutes
- Internal least count: one minute, Internal 1/1000 second
- Alarm and Display Indication:
  - 1) When set time is over.
  - 2) When pressure goes 25mmHg above set pressure.
  - 3) When pressure goes 25mmHg below set pressure.
  - 4) In battery mode, when battery voltage reaches 9V.
- Memory: Pressure set in earlier session is stored and displayed, when machine is switched ON again.
- Pressure Regulation: Maintains set pressure under leak conditions.
- Backup: 3 hours battery backup (on full charge)
- Switchover: Automatic switchover from mains to battery mode.
- Power: 230V (AC)/50Hz ± 10%
- Stabilizer: inbuilt
- Digital display: Digital display of time elapsed, set time, actual and set Pressure.
- Cuffs: Different sizes of five cuffs- washable & easy fitting (pediatric, small, medium, big & large).
- Dimensions: 222.25mm (l) x 139.7 mm (w) x 101.6mm (h)
- Weight: 3.9Kgs



## SURGICAL POWER TOOLS

- Ergonomic design
- New motor imported from Germany with Strong and stable output
- The main components are made of high-strength stainless steel
- High proper alignment, low-noise
- 155°C Autoclavable



**4200**  
Multi-function  
hand piece

## Drilling and Reaming Attachments



**4201** Sagittal saw attachment  
For joint procedures



**4202** Bone drill attachment  
For trauma procedures



**4202SAO** AO drill attachment  
For trauma procedures



**4209** Reciprocating saw  
attachment



**4203B** Canulate drill attachment  
For trauma procedures



**4207B** Acetabulum reaming drill  
attachment  
For joint procedures



**4207D** Acetabulum reaming drill  
attachment  
For joint procedures



**4213** K-wire drill attachment  
A(0.8-2.0mm)  
B(2.0-3.2mm)

### Main Accessories



**4006**  
Bower console



**4001**  
Battery



**4008**  
Power coupling



**1002**  
Charger



**4003**  
Lid



**4009**  
Lid



**4007**  
Connection wire



**4004**  
Aseptic  
transfer kit



**4005**  
Key



# ENT SURGERY: OTOSCOPE, SINOSCOPE, NASAL OPERATING FORCEPS



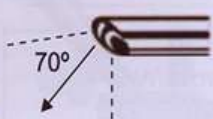
0434



C0010 0°  $\varnothing$ 2.7x105mm  
C0010.1B 0°  $\varnothing$ 3x90mm  
C0010.1C 0°  $\varnothing$ 3.3x90mm (wireless)  
C0020. 0°  $\varnothing$ 2.7x45mm  
C0030.1 0°  $\varnothing$ 4x45mm



C0012 30°  $\varnothing$ 2.7x105mm  
C0022 30°  $\varnothing$ 2.7x45mm  
C0032 30°  $\varnothing$ 4.45mm  
C0032.3 30°  $\varnothing$ 4x45mm 2 bar 134°  
Autoclavable



C0013 70°  $\varnothing$ 2.7x105mm  
C0023 70°  $\varnothing$ 2.7x45mm  
C0033 70°  $\varnothing$ 4x45mm



B0010 0°  $\varnothing$ 4x175mm  
B0110 0°  $\varnothing$ 4x175mm Wide angle  
B0210 0°  $\varnothing$ 2.7x.175mm Pediatric  
B0120 0°  $\varnothing$ 4x175mm 134°C 2bar  
wide angle autoclavable



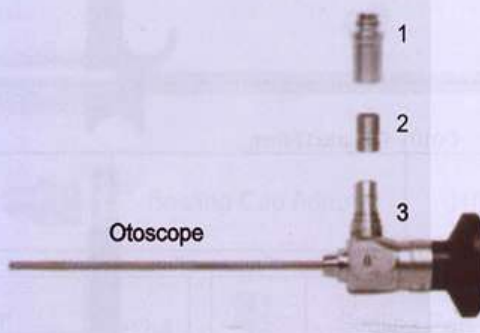
B0012 30°  $\varnothing$ 4x175mm  
B0112 30°  $\varnothing$ 4x175mm Wide angle  
B0212 30°  $\varnothing$ 2.7x.175mm Pediatric  
B0122 30°  $\varnothing$ 4x175mm 134°C 2bar  
wide angle autoclavable



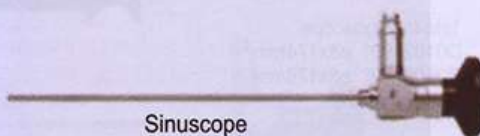
B0016 45°  $\varnothing$ 4x175mm



B0013 70°  $\varnothing$ 4x175mm  
B0113 70°  $\varnothing$ 4x175mm Wide angle  
B0213 70°  $\varnothing$ 2.7x.175mm Pediatric  
B0123 70°  $\varnothing$ 4x175mm 134°C 2bar  
wide angle autoclavable



Otoscope



Sinuscope



Sinuscope

B0040 0°  $\varnothing$ 4x175mm  
B0042 30°  $\varnothing$ 4x175mm  
B0043 70°  $\varnothing$ 4x175mm  
B0044 45°  $\varnothing$ 4x175mm

Nasal tissue forceps

B2007.1 left-curved (large)  
B2007.2 left-curved (Small)  
B2008.1 right-curved (Large)  
B2008.2 right-curved (Small)



145mm  
Nasal tissue forceps  
B2109 Open to left  
B2110 Open to right

B2019  
Nasal Biopsy forceps, straight  
 $\varnothing$ 3.5x110mm



B2028 110mm  
Nasal foreign body forceps,  
without hook



B2029 110mm  
Nasal foreign body forceps,  
with hook



B2020  
 $\varnothing$ 3.5x110mm  
Nasal biopsy forceps



B2021  
 $\varnothing$ 3.5x110mm  
Nasal biopsy forceps, curved



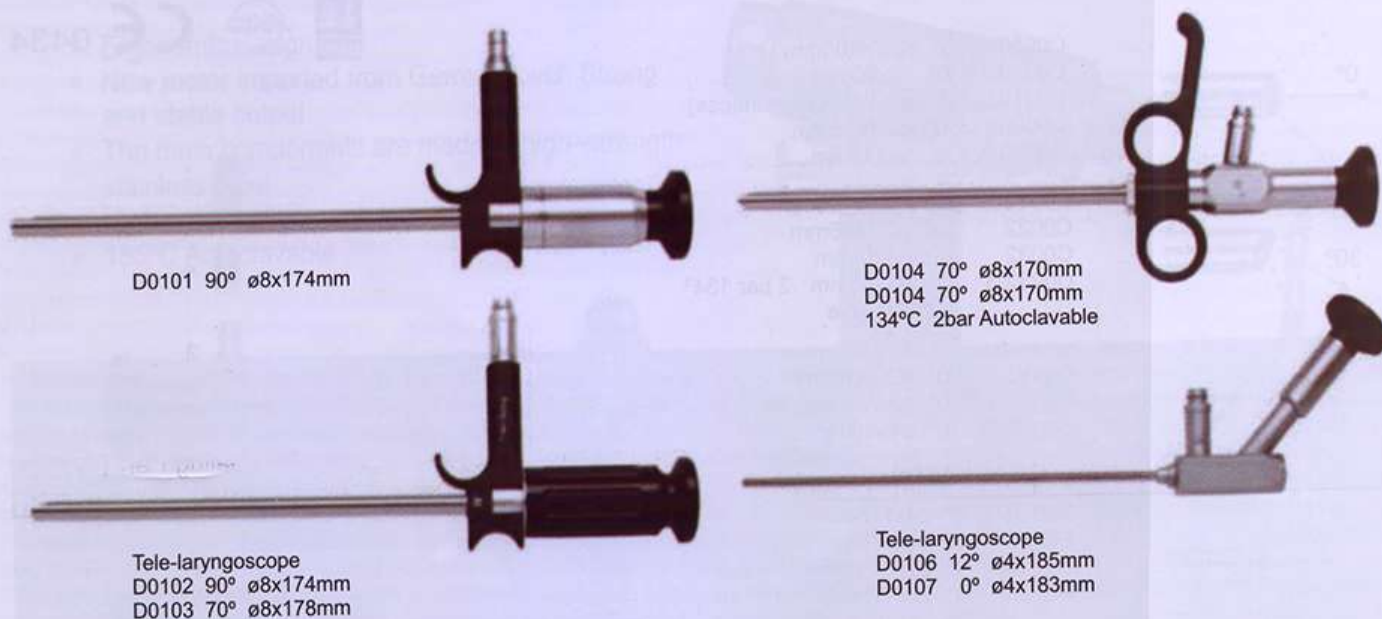
Nasal grasping forceps 105mm  
B2043 90°-120°  
downward 90°, open to back 120°  
B2043.2 90° - 120°  
Upward 90°, open to back 120°



Nasal grasping forceps 105mm  
B2043.1 1151°  
long curved downward 115°  
B2043.3 90° - 115°  
long curved, upward 115°



## ENT SURGERY : LARYNGOSCOPE, SELF RETAINING LARYNGOSCOPE



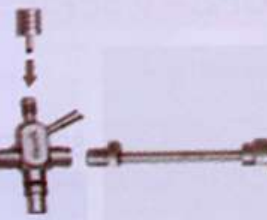
## SELF-RETAINING LARYNGOSCOPY SET










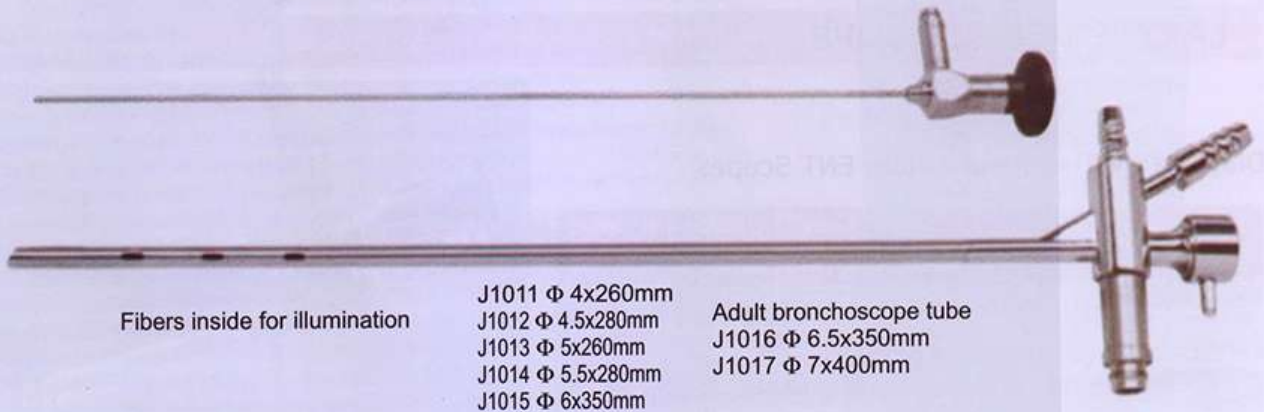
## BRONCHOSCOPE RIGID

- J1021 Pediatric bronchoscope tube 4X26 MM  
 J1022 Pediatric bronchoscope tube 4.5X280 MM  
 J1023 Pediatric bronchoscope tube 5X280 MM  
 J1024 Pediatric bronchoscope tube 5.5X280 MM  
 J1025 Pediatric bronchoscope tube 6X300 MM



J1029

	Bridge for telescope	J1028		Sealing Cap Adaptor	J1031
	Window Adaptor	J1032		Universal Adaptor Open sealing cap, window	J1029
				Sealing Part	J1032



Fibers inside for illumination

- J1011  $\Phi$  4x260mm  
 J1012  $\Phi$  4.5x280mm  
 J1013  $\Phi$  5x260mm  
 J1014  $\Phi$  5.5x280mm  
 J1015  $\Phi$  6x350mm

- Adult bronchoscope tube  
 J1016  $\Phi$  6.5x350mm  
 J1017  $\Phi$  7x400mm

Optical forceps



J2211  $\Phi$  4.3x330mm  
Crocodile head



J2212  $\Phi$  4.3x330mm  
Peanut head

$\Phi$  1.8x360mm  
Foreign body forceps



J2001  
Saw-toothed head



J2001.2  
New Saw-toothed head



J2002  
Ring head



J2003  
Cup head



J2003.2  
New Cup head



J2006  
Triticeous head



J2006.2  
New Triticeous head



J2007  
Crocodile head



## BRONCHOFIBERSCOPE – V SERIES

### High Resolution, Large Image, Easy to Handle

With the V Series scopes, PENTAX has succeeded in combining superior quality with simple design. The PENTAX V Series scopes reflect the unmatched creativity and workmanship that the medical community has come to expect. These new scopes satisfy the physician's desire to lower expenses without sacrificing the high quality that PENTAX is known for.



#### SPECIFICATIONS

	FB-8V	FB-10V	FB-15V	FB-18V	FB-19TV
Field of View	100°	120°	120°	120°	120°
Depth of Field	2 ~ 50mm	3 ~ 50mm	3 ~ 50mm	3 ~ 50mm	3 ~ 50mm
Diopter	+2 ~ -8Dptr.	+2 ~ -8Dptr.	+2 ~ -8Dptr.	+2 ~ -8Dptr.	+2 ~ -8Dptr.
Tip Deflection	Up:180° · Down:130°	Up:180° · Down:130°	Up:180° · Down:130°	Up:180° · Down:130°	Up:180° · Down:130°
Rigid Distal Width	Ø 2.7mm	Ø 3.4mm	Ø 4.9mm	Ø 5.9mm	Ø 6.2mm
Insertion Tube Width	Ø 2.8mm	Ø 3.5mm	Ø 4.9mm	Ø 6.0mm	Ø 6.2mm
Minimum Instrument Channel Width	Ø 1.2mm	Ø 1.2mm	Ø 2.2mm	Ø 2.8mm	Ø 3.2mm
Working Length	600mm	600mm	600mm	600mm	600mm
Total Length	900mm	900mm	900mm	900mm	900mm

## LARYNGO FIBRE SCOPE

### Diagnostic / Therapeutic Fibre ENT Scopes

Type	Ultra-Slim	Routine	Portable	Therapeutic
Model	FNL-7RP3	FNL-10RP3	FNL-10RBS	FNL-15RP3
Angle of view (°)	75		85	75
Focal range (mm)		3-50		
Tip deflection (°) up/down		130/130		
Insertion tube diameter (mm)	2.4	3.5	3.5	4.9
Distal end diameter (mm)	2.4	3.4	3.4	4.8
Instrument channel diameter (mm)	-	-	-	2.2
Working length (mm)		300		



ENT Scopes

## HIGH RESOLUTION INTUBATION ENDOSCOPES



For quick and reliable intubation techniques and complete airway management, choose a cordless and ultra-compact portable intubation endoscope from the PENTAX Medical range.

### Portable Fibre Intubation Endoscopes

Type	Ultra- Slim	Slim	Standard	Standard	Large Channel
Model	FI-7 RBS	FI-9 RBS	FI-10 RBS	FI-13 RBS	FI-16 RBS
Field of view [°]	95	90		95	
Depth of field [mm]		3-50			
Tip deflection up/down [°]		130/130		160/130	
Insertion tube [ø mm]	2.4	3.1	3.5	4.2	5.2
Distal end [ø mm]	2.4	3.0	3.4	4.1	5.1
Min. instrument channel [ø mm]	-	1.15	1.31	1.72	2.55
Working length [mm]		600			

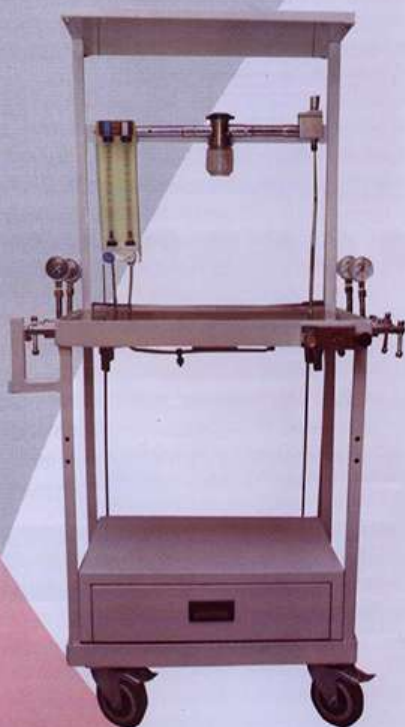


## ANAESTHESIA MACHINE

We bring to our client a technologically advanced range of GENUINE O<sub>2</sub> CLASSIC That is an oxy failure warning device.

Sturdily built using premium grade raw material, these are provided with higher efficiency forged regulators and yoke.

Our range is available in various specifications and can also be customized as per the required application needs of client.



Oxy failure warning device  
Oxy Locked N<sub>2</sub>O supply  
Higher efficiency forged regulators  
High Precision pressure relief cum Nun return valve

Vaporizers Halothane (Goldman)  
Change over mechanism with oxygen flush  
Oxygen & Nitrous Oxide gas inlet point each 2 nos.  
Standard Magill's Circuit  
All Rubber Antistatic Tested  
Trolley made of Power Coated M.S.  
Stainless steel table top tray  
Modified monitoring accessories tray  
5'Dia antistatic breaking caster wheel Foot nest  
Oxygen outlet for driving ventilator  
Large diameter (63 mm) O<sub>2</sub> & N<sub>2</sub>O gauge two each for high visibility & clarity  
Provision for selectatec Vaporizers, Hypoxic guard  
Circle Absorber & 10 litre w/c cylinder.  
Carrier facility (all are optional at extra cost)  
Dimension - Height - 1520mm -  
Depth - 760 mm - Width - 820 mm



## PRIMA

## ANAESTHESIA WORK STATION

Robust and reliable Prima is a Compact Light Weight Anaesthesia Work Station easy to manoeuvre in any Environment

### TECHNICAL FEATURES

**Application:** Adult, Paediatric

**Driven mode:** Pneumatically driven electronically controlled

**Mode:** Semi-open, Semi-closed or closed system

**Anesthetic vaporizer:** Two high precise vaporizers,

Halothane / Isoflurane / Sevoflurane

**Power supply:** 100~240V, 50/60Hz

**Power Consumption:** < 50W

Fresh gas outlet is in front of frame

### ANESTHESIA VENTILATOR

**Display:** High light LED display

**Ventilation mode:** IPPV, Manual

Tidal Volume: 50 ~ 1600ml

**Breath frequency:** 3 ~ 100)

I:E ratio: (1:6~4:1)

**Monitor Parameter:** Tidal Volume, Breath frequency MV

Alarm: MV high alarm, MV low alarm, TV high alarm TV low alarm,

Curcui Disconnection Alarm, Oxygen failure alarm

**O2 Flush:** 25ml-75L/mm

### ROTA METER :

Five tube Flow meter Bobbin Type

O2 tube: 0.1L/min~1L/max. 1L/min 10L/max

N2O tube: 0.1L/min~1L/max. 1L/min 12L/max

Air tube: 0.1L/min~15L/min

O2 and N2O Linkage Device, Hypoxy Guard

Oxygen Flush: 25L/min~75L/min

**Gas source pressure:**

O2: 0.25Mpa~0.65Mpa

N2O: 0.25Mpa~0.65Mpa

Air: 0.25Mpa~0.65Mpa

**Circle Absorber System:**

Upgraded integrated Circle Absorber, With twins

large volume CO2 absorbing Efficiency

With non return respiratory valve and expiratory

valve on it, avoid gas back flowing

With APL valve on it, the airway pressure could be

adjusted freely With "Manual/Ventilation

"Switch On it, easily and quickly change

### Frame

Rust Proof Epoxy Coated High Strength Frame

Pipeline Attachment for O2, N2O, Air

Yokes For Two Each Cylinders of O2 and N2O

Select tec bar with provision to mount 2 Vaporizers

Anti Static 4 Castor Wheels with Locking facility

Stainless Table Top of Formidable size

**Dimension:** 150x67x60

**Optional:** Basal Flow Patient Monitor:





## PRAN

## ANAESTHESIA WORK STATION

Robust and Reliable PRAN is a Compact and Light Weight Anaesthesia Work Station easy to manoeuvre in any environment

### TECHNICAL FEATURES

Suitable for Paediatric & Adult patients

**Tidal Volume:** 50ml-1500ml

**Ventilation Modes:** VCV, PCV, SIMV, Manual, Standby

**Driven Modes:** Pneumatically Driven, Electronically Controlled

**Modes:** Semi open, Semi closed, Closed system

**Display:** 7" Color TFT Screen

Lung Mechanics and loops (P-V, V-F)

**Gas Supply:** O<sub>2</sub>, N<sub>2</sub>O, Air

**Flow Meter:**

Five tube Flow meter Bobbin Type

**O<sub>2</sub> tube:** 0.1L/min~1L/min. 1L/min 10L/min

**N<sub>2</sub>O tube:** 0.1L/min~1L/min. 1L/min 12L/min

**Air tube:** 0.1L/min~15L/min

O<sub>2</sub> and N<sub>2</sub>O Linkage Device, Hypoxy Guard

Oxygen Flush: 25L/min~75L/min

**Gas Source pressure:**

O<sub>2</sub>: 0.25Mpa~0.65Mpa

N<sub>2</sub>O: 0.25Mpa~0.65Mpa

Air: 0.25Mpa~0.65Mpa

Vapourized Mount : Select tec bar Support, 2 interlocked Vaporizers

Halothane/Isoflurane/Sevoflurane

Battery Backup : 120 Minutes

### Circle Absorber System:

Upgraded integrated Circle Absorber, With twins large volume CO<sub>2</sub> absorbing Efficiency With non return respiratory valve and expiratory valve on it, avoid gas back flowing With APL valve on it, the airway pressure could be adjusted freely With "Manual/Ventilation" Switch On it, easily and quickly change

Linear Design which can be easily upgrade to adding Monitor, Etco<sub>2</sub> System Multiparameter Monitor

### Measurement:

Pressure Values: P Peak, Pmean Pplat, Pmin, Peep

Volume / Flow Values: MV MU, SPONT

Ftotal, fspn (1:E 4:1~1:8)

Rinsp, Cdyn

FiO<sub>2</sub>

**Alarms:** MV, Pressure, Vte, Rate, fiO<sub>2</sub>,

Mains Features Battery low

Battery Discharged, O<sub>2</sub> Supply features, Apnea, Circuit Occlusion

### Frame

Rust Proof Epoxy Coated High Strength Frame

2 Big Drawers

Pipeline Attachment for O<sub>2</sub>, N<sub>2</sub>O

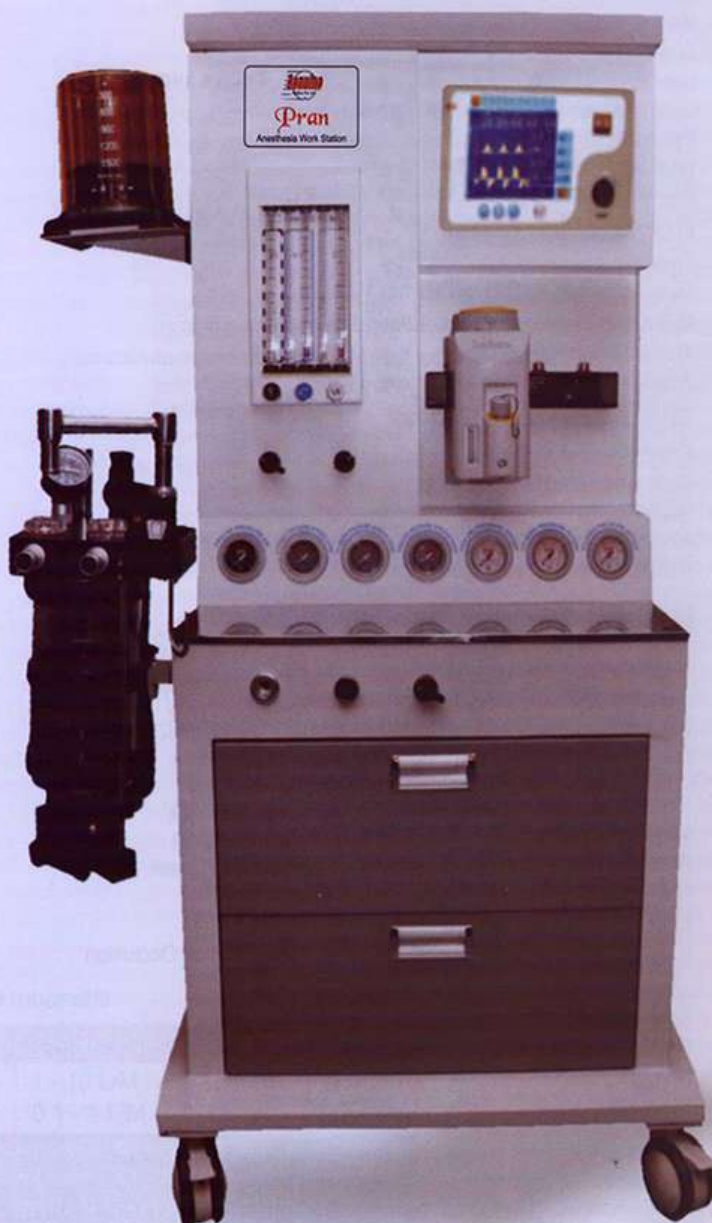
Yoke-2 each for O<sub>2</sub>, N<sub>2</sub>O

220 V Plain 50/60 Hz

Battery 12 V DC Minimum 120 min

Dimensions: 150x67x60

Optional: Basal Flow





## MAGNA

## ANAESTHESIA WORK STATION

Robust and reliable, the MAGNA is compact and lightweight Anesthesia work Station which is easy to manoeuvre in any environment. Configured with Startup pretest Patient Circuit leakage and Compliance test Suitable for Paediatric and Adult Patient

### TECHNICAL FEATURES

**Tidal Volume:** 20ml-1500ml

**Ventilation Modes:** VCV, PCV, SIMV-VC, SIMC-PC, PSV/SPONT, Manual, Standby

**Driven Modes:** Pneumatically Driven, Electronically Controlled

**Modes:** Semi open, Semi closed, closed system

**Display:** 8" Colour TFT Display

User Friendly interface display, Paw -T, Flow -T wave forms

Lung Mechanics and loops (P-V, V-F)

**Peep:** Built in PEEP Valve

**Battery:** Built in Battery

**Gas Supply:** O<sub>2</sub>, N<sub>2</sub>O, Air

**Flow Meter:**

Five tube Flow meter Bobbin Type

O<sub>2</sub> tube: 0.1L/min~1L/max. 1L/min 10Lmax

N<sub>2</sub>O tube: 0.1L/min~1L/max. 1L/min 12L/max

Air tube: 0.1L/min~15L/min

O<sub>2</sub> and N<sub>2</sub>O Linkage Device, Hypoxy Guard

Oxygen Flush: 25L/min~75L/min

**Gas Source pressure:**

O<sub>2</sub>: 0.25Mpa~0.65Mpa

N<sub>2</sub>O: 0.25Mpa~0.65Mpa

Air: 0.25Mpa~0.65Mpa

Battery Backup : 120 Minutes

### Auxiliary Oxygen System with Flow Meter

### Measurement

Pressure Values: Peak, Plate Pmean Pmin, PEEP

Volume/Flow Value: VTi, VTe, MV, MV, MVSPONT, ftotal, fspn,

Rinsp, Cdyn 1:E (4.1~1:8) FiO<sub>2</sub>

Optional: Spo<sub>2</sub> & Etco<sub>2</sub>

**Loop:** Pressure - Volume, Volume - Flow

### Alarms

MV, Pressure, Vte, Rate, fiO<sub>2</sub>,

Mains Features Battery low

Battery Discharged, O<sub>2</sub> Supply features, Apnea, Circuit Occlusion

### Frame

Rust Proof Epoxy Coated High Strength Frame/ Metal Reinforced Fiber

Frame

(Optional)

2 Big Drawers

Pipeline attachment for O<sub>2</sub>, N<sub>2</sub>O, Air

Yoke-2 each for O<sub>2</sub>, N<sub>2</sub>O

220 V 50/60 Hz

Battery 12 V DC Minimum 120 min

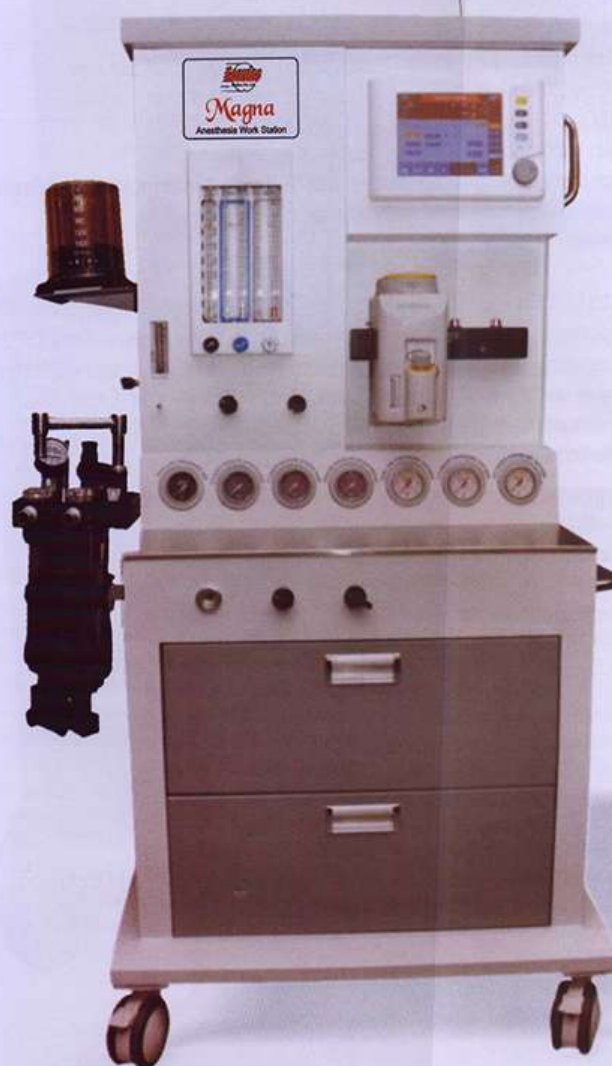
**Dimensions:** 150x67x60

### Optional

1. AGSS: Anesthetic Gas Scavenging System

2. **Patient Monitor Modes:** ECG, Spo<sub>2</sub>, NIBP, Temp, Resp, Etco<sub>2</sub>, IBP, Touch screen Printer, Anesthesia gas against monitoring

2. Basal Flow





## ACCESSORIES

**Main Frame:** High quality pipeline attachments, option to upgrade software, cylinder attachment for N<sub>2</sub>O & O<sub>2</sub> - 2 each, exhalation port, input power socket.

**Vaporizer:** Selectatec bar Support, 2 interlocked Vaporizers Halothane / Isoflurane / Sevoflurane

### Features

Halothane / Isoflurane / Sevoflurane

High precision anesthetic vaporizers

Stable output concentration to meet the international standards ISO 8835-4

**Compensation:** Temperature, flow rate, pressure.

Fast & Smooth dynamic response

### Technical Specification:

Flow rate range: 0.2-15L/min

### Dosage

Dosage: 300ml

Core absorption dosage 50ml

### Connector type

Select tec compatible, plug in, cage mount

### Dosing methods

Pour-fill, Easy-fill, Quick-fill (Sevoflurane)

### Working environment

Working temperature: +15 °C ~ +35 °C

Relative humidity: ≤93%

Atmospheric pressure range: 70kPa ~ 106kPa

Storage temperature: -40 °C ~ +65 °C

### Main technical parameters

Anesthetic concentration:

0 ~ 5.0%: Isoflurane, Enflurane, Halothane

0 ~ 8.0%: Sevoflurane

### Circle Absorber System:

Integrated Design for less Leakage

By Pass Design for smart detection

Autoclavable and Moduling Design

Built in ACGO Gas Outlet Convenient for

Open Circuit Switching

One Step for manual / auto switching

Quick Absorber cannister assembly

Monometer and oxygen sensor equipped

APL valve so that pressure can be adjusted freely

Bi - Stable By pass switch for online change of sodalime and disconnection

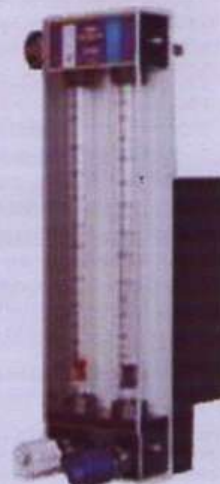
alarm 1.5 Litre absorber canister



Calibrated at 20 deg C/1013 mbar abs

Code	Gas	Scale	AØ±0.4	BØ±0.1
0010	Oxygen	1 - 10 L/M	15 mm	11.3 mm
0101		0.1 - 1 L/M	15 mm	6.3 mm
A015	Air	1 - 15 L/M	15 mm	11.3 mm
N010	Nitrous Oxide	1 - 12 L/M	15 mm	11.3 mm
N101		0.1 - 1 L/M	15 mm	6.3 mm

- Conforms to ISO 5358.
- Proven in meeting users' requirements.
- Permanent ceramic markings fused to glass
- Bobbin float : aluminium alloy anodised red, with silver dot for easily observing rotation.
- Special design float for rapid response to flow change.
- Machine manufacturers's logo printed in required.
- Colour coding for each gas.

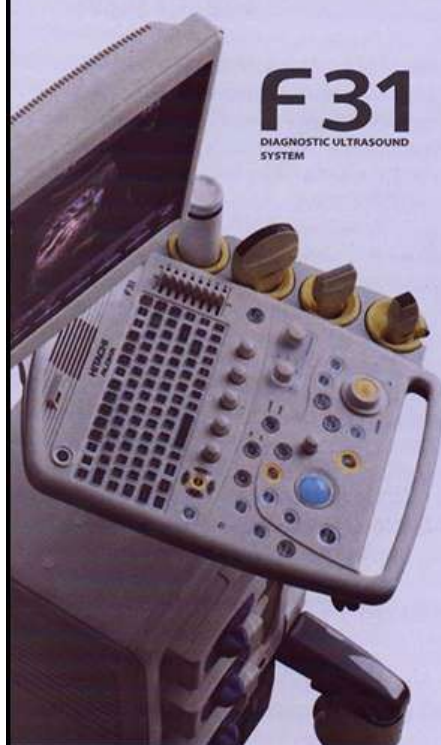




## ULTRASOUND SYSTEM / COLOUR DOPPLER

**HITACHI**  
Inspire the Next

**ALOKA**  
illuminate the change



**F31**  
DIAGNOSTIC ULTRASOUND  
SYSTEM

### High-performance ultrasound now becomes affordable with the compact, fully featured F31

Hitachi Aloka have always integrated their longstanding traditions of reliability and high quality in the design and manufacture of ultrasound systems. The F31 embodies these Japanese values combining quality and affordability in a compact ultrasound platform.

#### Comfort and ease in use

F31 combines performance features and ergonomics that ensure efficient workflow with a sympathetic design that safeguards patients' confidence.

#### Quality Imaging

Performance and advanced features have been tailored to meet the requirements across a wide spectrum of clinical applications.

### Compact, ergonomic design

Flexibility of operating console and monitor position combine with easy, safe mobility

#### ■ Monitor design

The monitor tilts and swivels through 330° providing an optimal viewing angle for all applications and when folded, improves visibility and safety during transportation.

#### ■ Operating console movement

With a 90° right and left rotation of the operating console, and height adjustment from as low as 70 cm, operator comfort is assured whatever the type of examination performed.

#### ■ Ease of Mobility

Lightweight, compact, and with large wheels, the F31 can be moved with ease around the hospital, guided using rear handles.



### Powerful functions that support reliable imaging

#### ■ Advanced Imaging Features

Broadband Harmonics (BbH), Adaptive Image Processing (AIP\*), and Spatial Compound Imaging (SCI\*) support imaging excellence. Anatomy is displayed with outstanding sensitivity and resolution.

#### ■ eFLOW

Blood flow mapping with eFLOW demonstrates vascularity with high spatial resolution and minimal blooming.

#### ■ Dual Dynamic Display (DDD)

Real-time, simultaneous side-by-side display of the B-mode and Flow images enables easy anatomical understanding in vascular examinations such as the carotid artery or lower extremities.

#### ■ Extended Field of View (EFV\*)

Large structures or pathology can be displayed on a single screen, whether the body contour is linear or curved.

#### ■ High Frame Rate Zoom

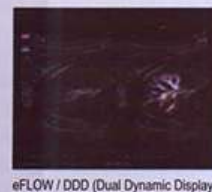
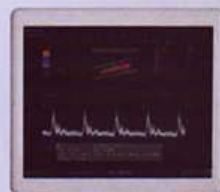
A region of interest can be enlarged whilst maintaining a high frame rate.

#### ■ Free Angular M-mode (FAM\*)

The M-mode can be displayed in real-time or reconstructed from the cine memory. Orientation at arbitrary angles can be achieved to allow for heart position.

#### ■ Dynamic Slow-motion Display (DSD)

Detailed observation of fast moving structures such as the heart valves can be made using DSD which displays the real time image alongside a slow motion counterpart.



FAM (Free Angular M-mode)

TDI (Tissue Doppler Imaging)

DSD (Dynamic Slow-motion Display)

### Fully-featured Diagnostic Ultrasound Platform

- Scanning modes:
  - B-mode, M-mode, D-mode (PW, CW), Flow mode, Power Flow mode, eFLOW mode, Free Hand 3D\* (B/W, color)
- Trapezoidal field of view
- Auto Angle Correct
- Real-time Doppler Auto Trace\*
- Free Hand 3D imaging\*
- 3D image analysis, MPR, FMPP, MSI\*
- Automated Volume Measurement (AVM)\*
- Tissue Doppler Imaging (TDI)
- Auto IMT\* (Intima-media thickness measurement)
- Automated modulation of LED brightness
- Postprocessing and analysis
- Customizable keys

### Full Versatility

#### ■ Data management

- Supports a broad range of image formats, such as DICOM\*, AVI, BMP, and JPG.
- Conforms to the DICOM standard for Worklist\* ensuring an efficient patient throughput.
- Full measurement and analysis package, including fetal growth curves.
- Data can be output to USB recording devices.

#### ■ Report Functions

Report functions conform to DICOM 3.0\*: Structured Reporting\* for Ob/Gyn, Cardiology, Vascular, Abdominal and Gynecological measurements.



### Workflow efficiency



#### ■ Auto Angle Correct

Automatic adjustment of beam-to-flow angle in PW Doppler mode dramatically improves measurement accuracy.

#### ■ Intuitive console layout

The most frequently used controls are placed together on the operating console to fit under the palm of your hand.

#### ■ Single-action measurement activation

By assigning the most common measurement functions to the keyboard, examination times can be minimised especially when multiple measurements are required.

#### ■ Image Optimiser

With a single keystroke, F31 adjusts the B-mode brightness and optimises the spectral waveform automatically, based on the operator's previously demonstrated preferences.



## MULTIPARA PATIENT MONITOR

# H8

## Patient Monitor



### Features

- 12.1" color TFT LCD screen with multi channel waveforms display
- Rechargeable high energy built in Li Battery
- Easy to learn, easy to use, simplified menus and delicate functions keys
- Easy connecting with central monitoring system
- 96 hours data storage
- Suitable for adult, pediatrics and neonates
- Monitors end-tidal CO<sub>2</sub> and inspired CO<sub>2</sub> accuracy at high respiration rates
- Gas monitoring with cutting edge water filter tube

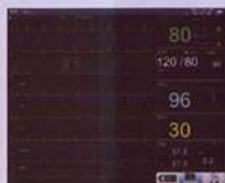
### Standard parameters:

3/5-Lead ECG, Hwatime SpO<sub>2</sub>, NIBP, RESP, 2-Temp, PR

### Optional:

EtCO<sub>2</sub>, Touchscreen, Thermal Recorder, WLAN accessory, Nellcor-SPO<sub>2</sub>, 2-IB P, Masimo SpO<sub>2</sub>, Masimo AGM.

### Economic, Durable design



Max 8 waveform display simultaneously, max 6 leads ECG waveforms display



Trend graphs



Built in Thermal Recorder



Standard Interface



Big Font Interface



Durable probes connector with high quality



### ECG

Number of Leads 3 or 5 leads  
Lead View  
User Selectable: I, II, III, aVR, aVL, aVF, V (5 Lead)  
; I, II or III (3 lead)  
Gain Selection x1/4, x1/2, x1 and x2  
Frequency Response  
Diagnostic: 0.05 to 90HZ  
Monitor: 0.5 to 35 HZ  
Surgery: 1-15HZ

Calibration Signal 1 (mV p-p), Accuracy:  $\pm 5\%$   
ECG Signal Range  $\pm 8$  mV (Vp-p)  
Review Available

### Pulse Oximetry

Range 0 to 100%  
Resolution 1%  
Accuracy  
70% to 99% range  $\pm 2\%$   
0 to 69%: undefined  
Method Dual wavelength LED

### Respiration Rate

Rate: Adult: 0 ~ 120 rpm  
Neo/Ped 0 ~ 150 rpm  
Resolution 1rpm  
Accuracy  $\pm 2$  breath/min

### Power Requirement

Voltage AC100-240V, 50/60HZ  
Power Consumption 35W  
Battery 1 sealed lithium battery  
Battery Life 3 hour typical  
Recharge time 4.5 hours

### NIBP

Technique Oscillometric during inflation  
Range Adult: 40-270mmHg  
Pediatric: 40-240mmHg  
Neonate: 40-135mmHg  
Measurement cycle <40 sec, typical  
Cycles (Selectable) 2, 3, 5, 10, 15, 30 min 1, 2, 4 hr  
STAT model 5 minutes of continuous reading  
Max Allowable Cuff Pressure  
Adult: 297 $\pm$ 3 mmHg  
Pediatric: 240 $\pm$ 3 mmHg  
Neonate: 147 $\pm$ 3 mmHg  
Resolution 1mmHg  
Transducer Accuracy  $\pm 2$  mmHg or  $\pm 2\%$  of reading

### Temperature

Channels 2  
Range, Accuracy 0°-50°C:  $\pm 0.1^\circ\text{C}$   
Display Resolution  $\pm 0.1^\circ\text{C}$   
Probe YSI 400 and YSI 700 Series

### Heart (Pulse) Rate

Source User Selectable: Smart, ECG, Pleth, NIBP  
Range Adult 15-300 bpm  
Pediatric 15-350 bpm  
Accuracy  $\pm 1$  bpm or  $\pm 1\%$  whichever is greater

### Environment

Operating Temperature 59°-95°F (15°-35°C)  
Storage Temperature 23°-122°F (-5°-50°C)  
Humidity 15% to 90%

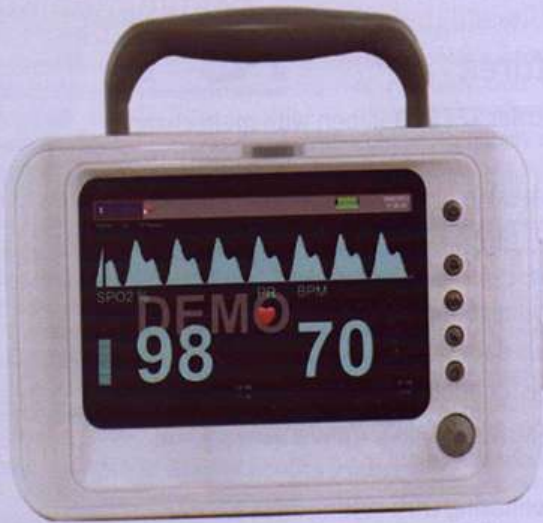
### Trends

Memory  
96 hr at 30 second intervals for a NIBP reading every 5 minutes  
Display tabular; graphical



## VITAL SIGN MONITOR

### H5A Patient Monitor



#### Features

- > 7" Colur TFT Display, led backlight , 800x600 pixels.
- > Operating Mode Selection: Neonatal/Pediatric/Adult.
- > Visual and Audio alarms, adjustable.
- > Patient management, name and age and id.
- > Network with Central Station Software,
- > Built-in removable and rechargeable lithium battery,
- > easy operating UI with both Keypad menu.
- > Powerful data storage and managment, Trend graph, Trend table, etc
- > Arrythmia analysis and S-T segment analysis.

Standard parameters:

SpO2 , PR

Optional:

EtCO2 , Touchscreen ,Printer



SpO2 sensor



#### Economic, Durable design

##### SpO2

Measuring Range	1-100%
ALARM RANGE	0-100%
Resolution	1%
AVERAGING	4, 8 & 16 seconds
ALARM DISPLAY	10 seconds
PULSE RATE & ALARM	25-240BPM
RESOLUTION 1 BPM	
ACCURACY	+ / - 2BPM
	+ / - 2% - 70% - 100%

##### Physically

Power Source	110V-240V, 50/60Hz
Weight	Approximate 1.7 Kg
Audio volume ajustable	1~4 level

##### Pulse Rate

SourceUser Slectable: Smart,ECG,Pleth,NIBP

Range Adult 15-300 bpm

Pediatric 15-350 bpm

Accuracy  $\pm 1$ bpm or  $\pm 1\%$  whichever is greate

##### Printer (optional)

Type	Thermal printer
Paper Speed	25 or 50 mm/sec

##### Trends

Memory	96 hr at 30 second intervals for a NIBP reading every 5 mintues
Display	trabular; graphical



### Multi-Parameter Patient Monitor – 8000A

7-inch high-resolution color TET LCD display.

Smaller, thinner and lighter in design, convenient and portable for users.

Real-time S-T segment analysis, pacemaker detection.

Various interfaces: standard screen, trend screen, oxy CRG screen, NIBP list screen, big front screen.

3-level audio/visual alarms.

Efficient resistance to interference of defibrillator and HF knife.

Up to 400 groups NIBP list, 6000seconds, ECG waveform recall, 60 alarm event records recall, 7-day trend chart in storage.

Built-in rechargeable lithium battery, 2-hour working capability.

Wireless central monitoring system applicable to ICU/CCU/OR



## FETAL MONITOR



### MCF - 21B

(Mars B)  
Fetal Monitor (CTG machine)

#### Feature

- Folded 12.1inch TFT LCD high-brightness screen with a wide viewing angle and large numerics.
- 12 elements/1MHz water proof pulse Doppler transducer for accurate detection (option) providing wider beam area and more homogeneous signal, thus realizing better performance for bedside monitors than conventional transducers.
- Even marker for easy documentation of events and kick counts.
- On-screen scrolling for viewing stored fetal traces.
- Twin ultrasound monitoring capability.
- Configurable audible and flashing fetal heart rate alarms.
- Twin signal overlap alarm function.
- Build-in high speed thermal printer, printing width can be set to 110mm, 150mm and 210mm.
- 24-hours memory for fetal traces.
- Supporting TCP/IP or wireless connection to the central monitoring station.
- Internal Li-ion battery power or AC power from external power supply.



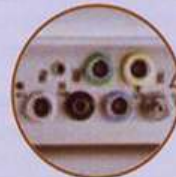
Screen Size 12.1inch



Build-In 210mm high speed thermal printer



Printing with can be set to 110mm, 150mm, 210mm



Color coded transducer for easy recognition

## MCF - 21K (Mars K Series) Fetal & Maternal Monitor

#### Fetal/Maternal Performance Specifications

Performance Specifications	Display	10.1 inch (1024x768 pixel) color TFT - LCD
	Indicator	Visual on-display and integrated, alarm light, audible alarm
	Battery	Internal rechargeable Li-on battery power
	Alarm	Visual on-display and integrated, alarm light, audible alarm
	Memory	24-hours memory for fetal traces
	Printer	America standard/international standard Built-in thermal printer (paper width:110mm) 1/2/3cm/min real-time printing speed, fast print speed (Store Traces)
	Paper	Z-fold, thermosensitive
	Record Message	ID, name, age, date, time, print speed etc.
	CMS	Support connecting to central monitoring station through Lan (TCP/IP) or





## ECG MACHINE 3/6/12 CHANNEL

### 3 Channel ECG with Interpretation (4.3 inch color display)

- 4.3 inch 480\*272 color display
- 80mm\*20m roll type thermal paper
- 12-lead ECG simultaneous acquisition and display on the ECG screen
- Multiple Operation models: Manual/Auto/Rhythm analysis
- 3-lead recording with a rhythm lead
- Digital filters to eliminate EMG/AC interference and prevent baseline drift.
- ECG reports with auto interpretation
- Lead-off detection
- Built-in rechargeable 1800mAh Li-ion battery, 2 hours continuous working
- 110-240V,50/60Hz AC power supply
- 200 patient reports save/replay (support external SD card)
- Built-in USB/RS232 interface..

### Model: ECG-1203B (3 channel)



### Model: ECG-1206A (6 channel)



### 6 Channel ECG with Interpretation (7 inch touchscreen)

- 7 inch 480\*800 touchscreen color display
- Patient name, sex, age and hospital name can by input by touchscreen soft keyboard and printed on ECG reports.
- 110mm\*20m roll type thermal paper
- 12-lead ECG simultaneous acquisition and display on the ECG screen
- Multiple Operation models: Manual/Auto/Rhythm analysis
- 6-lead recording with a rhythm lead
- Digital filters to eliminate EMG/AC interference and prevent baseline drift.
- ECG reports with auto interpretation
- Lead-off detection
- Built-in rechargeable 1800mAh Li-ion battery, 2 hours continuous working
- 110-240V,50/60Hz AC power supply
- 200 patient reports save/replay (support external SD card)
- Built-in USB/RS232 interface.

### 12 Channel ECG with Interpretation (10 inch touchscreen)

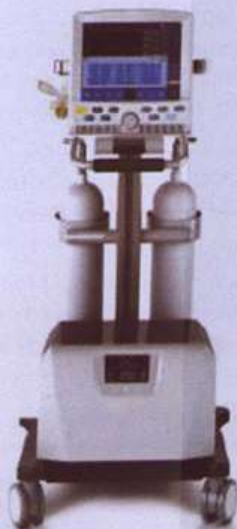
- 10inch 1024\*600 touchscreen
- Patient name, sex, age and hospital name can by input by touchscreen soft keyboard and printed on ECG reports.
- 216mm\*20m roll type thermal paper
- 12-lead ECG simultaneous acquisition and display on the ECG screen
- Multiple Operation models: Manual/Auto/Rhythm analysis
- 12-lead recording with a rhythm lead
- Digital filters to eliminate EMG/AC interference and prevent baseline drift.
- ECG reports with auto interpretation
- Lead-off detection
- Built-in rechargeable 4400mAh Li-ion battery, 2 hours continuous working
- 110-240V,50/60Hz AC power supply
- 200 patient reports save/replay (support external SD card)
- Built-in USB/RS232 interface.

### Model: ECG-1212A (12 channel)





## CRITICAL CARE VENTILATOR

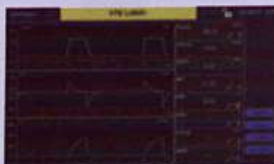


### Ventilation Mode

- Color coded display for numerical, graphic, alarm and system message
- Quick self-test no need frequent interaction from operator
- Patient settings automatic stored and can be restored quickly
- Direct setting of ventilation parameters in main interface
- Easy and fast chose functions and one step start
- 3 waveforms and loops on one interface, quick changeover
- System log can record 100 settings/alarms
- With the improvement of the patient, it's ease to choose multiple mode at anytime

### SIMV

SIMV is a combined mode, according to the selected SIMV mode, patient receives mandatory ventilation. During mandatory respirations, the patient can breathe spontaneously under pressure support ventilation mode. Mandatory ventilation can be volume-controlled ventilation or pressure-controlled ventilation.



### DUOPHASIC

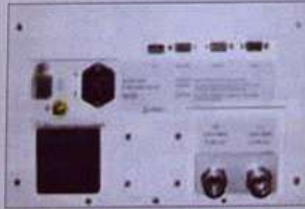
DUOPHASIC is mixed mode of ventilation that combines the attributes of mandatory and spontaneous breathing in which the patient has the ability to breathe at two levels of PEEP with or without PS. Due to its ability to allow unrestricted spontaneous breathing at any moment of the ventilation phase it improves patient ventilator synchrony.

### PSV

This mode is a breathing pattern triggered by the patient, the ventilator provides default Steady pressure support for patients. When the initiative triggered by the patient, according to the preset ventilator Steady pressure on the patient's inspiratory be supported ventilation.

### PCV

Pressure control ventilation and volume controlled ventilation are the same, a "same-parameters" forced ventilation can also be triggered by the patient during the expiratory phase.



### Features

Pneumatically driven and electronically controlled ICU ventilator  
 Widely usage range: Suitable for infants and adults  
 Tidal Volume setting 20~2500mL  
 Sufficient modes of Ventilation:  
 ❖ VCV, PCV, SIMV-VC, SIMV-PC, SPONT/CPAP+PSV, DuoPhasic / APRV+PSV, BACKUP

Friendly user interface: TFT color screen with touch screen; Knob and Hard key input  
 Good integration:  
 ❖ Built-in active expiratory PEEP valve;  
 ❖ Built-in O2 & Air mixture device  
 ❖ Built-in synchronized nebulizer  
 ❖ Built-in battery (2hours)  
 ❖ Optional SpO2/etCO2 monitoring module

- ❖ Lung mechanics parameters and loops
  - ❖ Inspiratory hold with static compliance measurement
  - ❖ Expiratory hold with PEEP<sub>i</sub> measurement
  - ❖ Manual inspiration
  - ❖ 100% O2 suction
- Easy to position ergonomic Trolley with two brakes**
- ❖ Easily removable and sterilizable exhalation valve & ow sensor module



## AUTOMATIC EXTERNAL DEFIBRILLATOR

### AED7000



#### KEY FEATURES :

- ◆ Three-step defibrillation process
- ◆ Two-Button operation
- ◆ Extensive voice and visual prompts for the operator
- ◆ Biphasic energy output
- ◆ Lock-out protection to prevent inadvertent defibrillation
- ◆ PC-based event review (optional)
- ◆ Multilingual sections are available. (optional)

AED7000 (Automatic External Defibrillator) is a defibrillation device, which is safe, portable and easy to use. It can be applied in family and public place to give first aid for the sudden death symptom. Combined with advanced ECG analytical technique from M&B company, the defibrillator can analyze the patients ECG, make a judgement for the patients cardiac condition and indicate whether the defibrillation is needed and the defibrillation strength. It can not only enhance the success rate of defibrillation, but also reduce the injury of defibrillation to heart to the utmost extent. There is low requirement for the operator to use the device. the defibrillator will guide the operator to carry out defibrillation treatment via voice prompt step by step, give safety alert if the occasion arises. It can carry out early defibrillation treatment effectively and protect the operator farthest, being very applicable to the emergency treatment for the sudden cardiac death patient in family and public place.

## DEFIBRILLATOR/MONITOR

### DM 7000



#### Two Defibrillation Mode : AED/Manual Advanced Biphasic Defibrillation Technology

##### Display

Screen Type : High-resolution display  
Screen Size : 7 inches (17.7 cm) diagonally  
Sweep Speed: 25mm/sec  
Information : Heart Rate, Lead/Pads, Alarm On/Off, SpO2, AED Functions and Prompts, Alarm Section and Limits, Delivered Energy

##### Defibrillator

Waveform : Biphasic  
Energy Display: Monitor Display indicates both selected and delivered energy  
Charge Prompt Type: Voice and visual prompts  
Electrode Impedance Measurement Range: 0-250 ohms

##### Defibrillator

Patient Connection : 3-lead ECG cable, or 5-lead ECG cable, paddles  
Lead Selection : Displayed on monitor, paddles, I, II, III, AVR, AVL, AVF, V  
ECG Size : 0.25, 0.5, 1, 1.5, 2, 4 cm/mV display on monitor.  
Heart Rate : 20-300BPM  
Heart Rate Alarm : On/Off displayed on monitor, user selectable  
Smart Alarms : Beeper/voice prompts indicateshockable rhythm

##### Battery

Type : Rechargeable, Ni-MH battery, 12V  
Operating Time : For a new, fully charged battery 60 defibrillator discharged at maximum energy, or 3 hours minimum of continuous ECG monitoring.  
Additional parameters will effect operating time with different functions.

##### SpO2 Module

Measurement Range : 30~100%  $\pm 2\%$  between 80%~90% other  $\pm 5\%$   
Alarm Range : User set high limit and low limit  
Alarm Accuracy :  $\pm 10\%$  within setting values  
Alarm time Accuracy : less than 12 sec

##### Recorder

Paper : 50mm thermal  
Speed : 12.5mm/sec, 25mm/sec, 50mm/sec User-selectable 6-second delay  
Printing Method : High-resolution thermal array print head  
Print-out Modes : Manual or automatic, User-Configurable  
On/Off Control : Front panel and paddle  
Automatic Function : 9-second recording initiated by alarm activation or defibrillator charge or defibrillator discharge

##### AED Mode

AED Function : Auto analyze and charge x3 with programmable auto energy level selection, screen prompts, and voice prompts  
Shockable Rhythms: Ventricular fibrillation  
Ventricular tachycardia  
QRS complex wave duration  
Charge Control : Control on device front panel, press key on paddle

##### Manual Mode

Energy Selection : Selectable at 2, 5, 7, 10, 20, 30, 50, 70, 100, 150, 200, 300, 360 joules  
Synchronized Mode: Synchronizes defibrillator pulse to patient's R-wave, "SYNC" message displayed on monitor



## HK-400 SYRINGE PUMP



Large colourful LCD screen



Visual and audible alarm indicator



Rotatable pole clamp

### Syringe Pump Features

- History records
- Unique intelligent self-recognition technology of syringes
- KVO, Bolus and Anti-bolus
- Applicable for 5,10,20,30,50(60) ml syringes
- Compatible for various brands of syringes
- Various infusion modes to meet different clinical requirements
- Various visual and audible alarms
- Numeric keys design, easy to operate
- Large colourful LCD screen
- Real time display, ensure the infusion information to be recorded correctly
- 3 adjustable occlusion levels, dynamically display the pressure
- Night mode
- Double CPU ensuring safe infusion



### SPECIFICATIONS

Infusion mode	Rate mode
	Time mode
	Body weight mode
	Intermittent infusion mode (Optional)
	Drug library mode (Optional)
Applicable Syringe	Various brands of sterile syringes: 5ml, 10ml, 20ml, 30ml, 50ml/60ml
Accuracy	±2% (After syringe correct calibration)
Infusion rate	5ml syringe: 0.1-150ml/h
	10ml syringe: 0.1-300ml/h
	20ml syringe: 0.1-600ml/h
	30ml syringe: 0.1-900ml/h
	50ml(60ml) syringe: 0.1-1500ml/h
Volume to be infused (VTBI)	0-1000ml
Volume infused	0-9999.9ml
KVO rate	0.1-2ml/h adjustable; default value 0.1ml/h
BOLUS(ml/h)	5ml syringe: 100-150ml/h
	10ml syringe: 100-300ml/h
	20ml syringe: 100-600ml/h
	30ml syringe: 100-900ml/h
	50ml(60ml) syringe: 100-1500ml/h
History record	1600 records
Computer interface	RS232 interface
Alarm	Syringe disengaged, Almost done, Infusion completion, Empty, Occlusion, Low battery, handle off, AC fail, On Battery, Battery exhausted etc.
Power Supply	DC:12 ± 1.2V AC: 100-240V, 50/60HZ
Power consumption	25VA
Nurse call interface	Optional
Wireless monitoring system	Optional
Classification	Class I, type CF
Dimension	300x130x125mm (LxWxH)
Net Weight	1.8KG
Waterproof level	IPX3
Occlusion pressure	(40.0-160.0) KPa 3 adjustable occlusion pressure: low, middle, high
Battery	Rechargeable Li_Polymer battery, 7.4V 1900mAh
Battery charging time	10 hours with power on, 3 hours with power off
Battery operating time	About 7 hours at 25ml/h
Operating conditions	Temperature: 5°C-40°C, Relative humidity: 10-95%, Atmosphere pressure: 86-106kPa
Transport conditions	Temperature: 20°C-60°C, Relative humidity: 10-95%, Atmosphere pressure: 50-106kPa
Storage conditions	Temperature: 20°C-45°C, Relative humidity: 10-95%, Atmosphere pressure: 50-106kPa



## VOLUMETRIC INFUSION PUMP



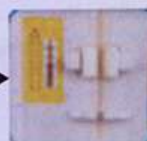
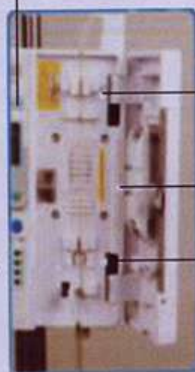
### Product Features

1. HD LCD Display, Friendly User Interface for Nurses
2. Can switch between 1ml/hour and drop/minute
3. Large Infusion Speed Range With a Maximum of 1200ml/h
4. In-Time and Accurate Voice Alarm Which Reduces Nurse Workload
5. The Pump Includes a Set of Rechargeable Lithium Batteries
6. KVO Function Automatically Starts After Infusion Is Done So That the Vein Flow Is Re-opened
7. Operates At Car DC 12V That Is Not Limited to AC110-240V
8. Equipped With Nurse Paging Connecting Port
9. Function to handle fast speed and large volume (bolus)

- ❖ CE, ISO13485 Certificate
- ❖ Unique voice alarm function, safe and reliable
- ❖ Multiple patents in China

### Specification

**Speed Range :** 1ml~1200ml/h (increment by 1ml/h)  
1~400drop/min (increment by 1drop/min)  
**Infusion Accuracy :** Within  $\pm 5\%$   
**High Speed Infusion :** 10ml/h~1200ml/h (Can be calibrated)  
**Volume Limit :** 1ml~999.9ml (increment of 0.1ml)  
**Infusion Volume Done :** 9999ml (increment of 0.1ml)  
**Alarm Type :** volume finished, infusion blockage, door is open, bubbles, wrong infusion speed, AC power unplugged, Low battery  
**Bubble Detector :** ultra-sound type, sensitivity  $>25\mu\text{l}$   
**Power Consumption :** 30VA  
**KVO rate :** ml/h~5ml/h (1ml/h every step)  
**Dimension :** 140ml (L)x157mm(W)x220mm(H).  
**Weight :** 1.8kg



### Technical parameters of BYS-820 infusion pump:

#### Unique Human Voice Alarm system

The device triggered the human voice prompt and stop injection automatically when there is any malfunction, making the infusion process safer and more reliable.

#### Rate:

1ml/h~1,200ml/h

#### Flow Rate Accuracy:

Within  $\pm 5\%$  (after correct calibration)

#### Mechanical precision:

Within  $\pm 2\%$

#### Purge Rate:

100ml/h~1,000ml/h (100 ml/h step)

#### Infusion Volume:

1ml~9999ml

#### Total Infusion Volume:

0.1ml~9999.9ml

#### KVO rate: 1ml/h~5 ml/h (1ml/h step)

#### Occlusion:

High: 800mmHg  $\pm 200\text{mmHg}$  (106.7kPa  $\pm 26.7\text{kPa}$ )  
Medium: 500mmHg  $\pm 100\text{mmHg}$  (66.7kPa  $\pm 13.3\text{kPa}$ )  
Low: 300mmHg  $\pm 100\text{mmHg}$  (40.7kPa  $\pm 13.3\text{kPa}$ )

#### Alarms:

End of injection, occlusion, door open, bubbles in the tube, wrong setting, low battery, AC power pulled out etc.

#### Power Source:

AC 100V~240V, 50/60Hz; Internal rechargeable Li battery, capacity  $\geq 1,600\text{mAh}$ , 4 hours internal battery backup

#### Bubble detector:

Ultrasonic wave detector; detection sensitivity  $\geq 25\mu\text{L}$

#### Fuse:

F1AL/250V, 2 pc inside

#### Power Consumption:

30VA

#### Operating Condition:

Ambient temperature:  $+5^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ;

Relative humidity: 20~90%

Atmospheric pressure: 86.0kPa~106.0kPa

#### Transport & Storage Condition:

Ambient temperature:  $-30^{\circ}\text{C} \sim +55^{\circ}\text{C}$

Relative humidity:  $\leq 95\%$

#### Equipment Classification:

Class I, internal power supply, Type CF



## OPERATION THEATER CEILING LED SURGICAL LIGHTS



### Technical Data

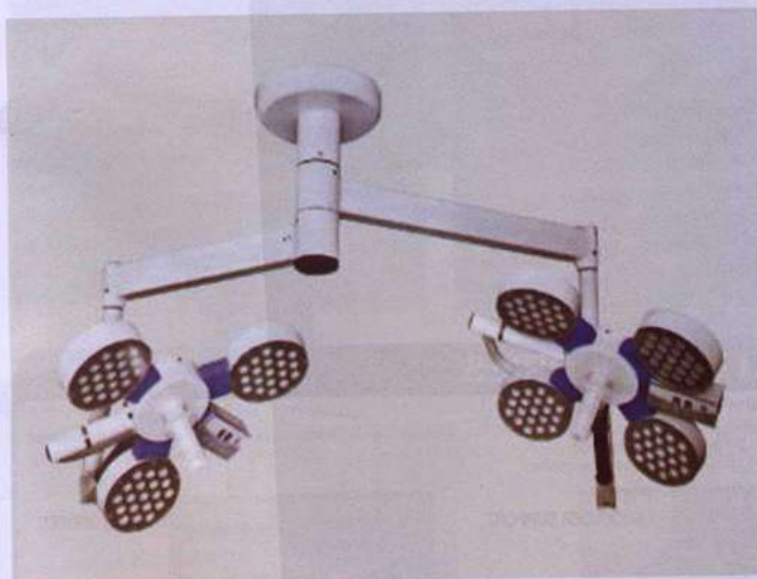
Intensity	80,000 Lux $\pm$ 10%
	80,000 Lux $\pm$ 10%
Size light field	12 - 30 cm
Colour temp.	4000-5000K
Colour reduction index	93RA
LED life	>45000 Hrs.
Number of LED	19x3 + 93x3
Diameter of Light	500mm x2
Brightness Control	Digital 9 Steps
Power Supply	220V/50Hz AC
Focusing	Adjustable
Battery Backup	Optional

**Special Feature :** Memory Function, High quality sterilizable handle, With protective fire resistant ESG safety glass for scratch proof, fast disinfection process, protects UV and IR rays and improve light penetration. With special European design for ventilation of heat. Body is made of high quality fire resistant polymer.

### Technical Data

Intensity	80,000 Lux $\pm$ 10%
	80,000 Lux $\pm$ 10%
Size light field	12 - 30 cm
Colour temp.	4000-5000K
Colour reduction index	93RA
LED life	>45000 Hrs.
Number of LED	19x3 + 93x4
Diameter of Light	500mm x2
Brightness Control	Digital 9 Steps
Power Supply	220V/50Hz AC
Focusing	Adjustable
Battery Backup	Optional

**Special Feature :** Memory Function, High quality sterilizable handle, With protective fire resistant ESG safety glass for scratch proof, fast disinfection process, protects UV and IR rays and improve light penetration. With special European design for ventilation of heat. Body is made of high quality fire resistant polymer.



### Great Behave of Laminar Flow

With the unique design, our LED Light provides a very nice performance of laminar flow to the operation room

### Safety Glass for Lens Protection

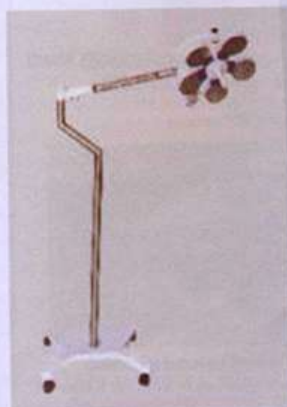
We offer LED lights with protective fire resistant ESG safety glass cover for scratch proof, fast disinfection process and improve the light penetration. It is made of monolayer safety glass which protects the lens from ultra-violet and infrared rays.

### Sterilizable Handle:

We Provide high quality Sterilizable Handle.

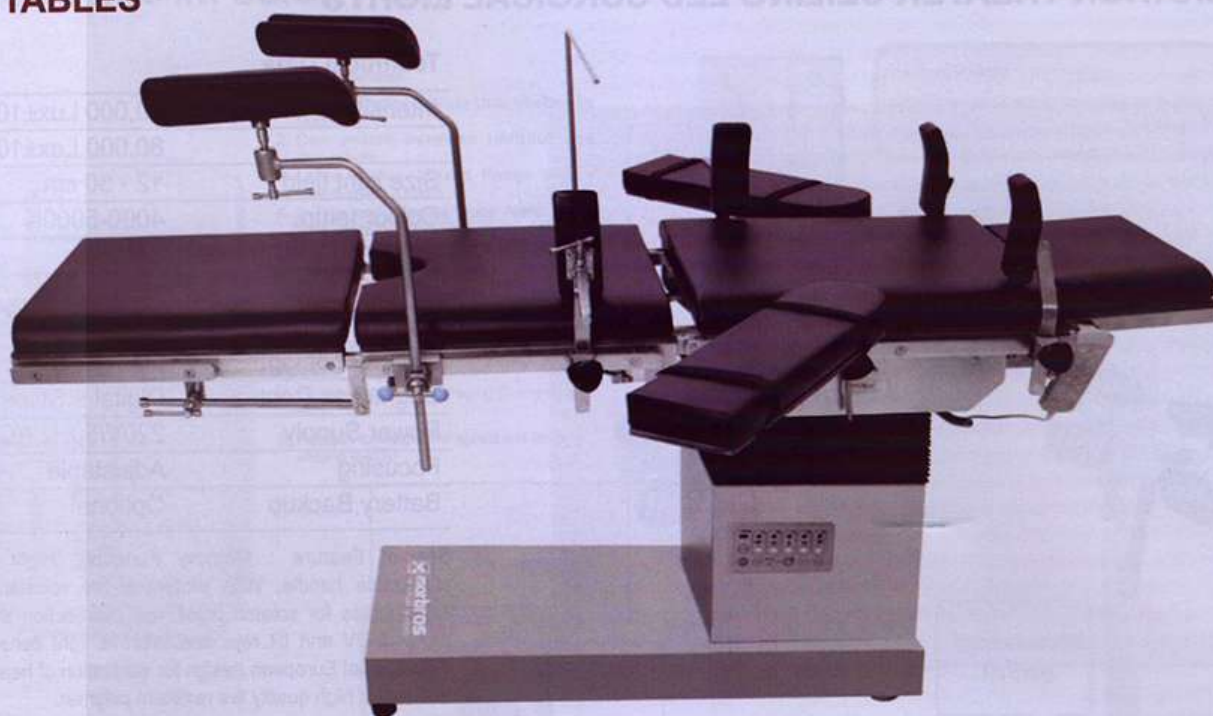
### Life of Bulb more than 45000 Hrs.

The Technomed LED Series offer an incredible long life of the bulbs more than 45000 hours.





## O.T. TABLES



## ACCESSORIES



## STANDARD ACCESSORIES



ARM REST



SHOULDER SUPPORT



ANESTHETIC SCREEN



CLAMPS



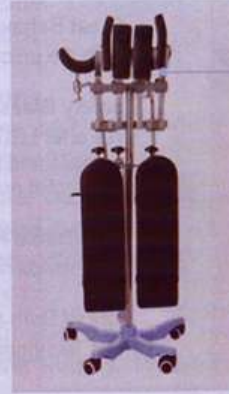
MATTRESS



ACC HORSE SHOE  
OA-10



LEG SUPPORT



ACCESSORIES STAND  
(OPTIONAL)



## Stryker's Secure II® Med/Surg Bed

### The Standard in Patient Care

Stryker's new siderail design incorporates the necessary changes to ensure compliance with the FDA's dimensional patient entrapment guidance without compromising the exclusive features and benefits that have made us the market leader in patient handling equipment.



Open architecture means you have the ability to choose the sleep surface technology most appropriate for your patient, with no loss of bed functionality.



#### Integrated Scale

Stryker's built-in scale system takes accurate, repeatable weight readings with the patient in any position.



#### State-of-the-art Fall Prevention System

Chaperone constantly tracks patient positioning using patented load cell technology. Zone Control® customizes monitoring needs to the patient's level of fall risk.



#### Intuitive Siderail Controls

Bed and patient controls located at both head-end siderails and at the foot-end of the bed provide a convenient, three-sided point of care.



#### 110-volt Outlet

Conveniently located at the foot-end of the bed, the 110-volt outlet provides an additional source of power to reduce electrical connections to the wall.



#### Intermediate Siderail Position

Eliminates the need to reposition the patient up in bed and provides dual arm support for side ingress and egress.



#### Bed Extender

Standard 85-inch long mattress deck accommodates a 10-inch bed extender with no loss of bed functionality.



#### Centrally-located Brake

Positioned at the middle of the bed, easy-to-engage brakes allow uncompromised access with the bed and the siderails in any position.



#### Dual-pedestal Design

Unique bed frame construction eliminates pinch and crush points, and provides supreme cleanability.



#### Zoom® Motorized Transport

Optional Zoom drive system minimizes the effort needed for patient transport while encouraging proper ergonomic posture.



## EAR, NOSE & THROAT TREATMENT UNIT



**ST-E500**

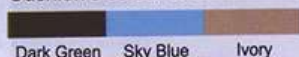


Well-designed working table (luxury glass table for medical instruments and medicine bottle)    LED illuminating    LED film viewer  
Function area    Spray gun block    Contaminated instrument tank    Built-in waste tank

STANDARD EQUIPMENT:	OPTION
Luxury glass table surface	1
Spray gun (unbent2 & bent1)	3
Suction gun	1
Blowing gun	1
Laryngoscope pre-heater	1
LED illuminating Light	1
Compressor	1
Vacuum pump	1
Instrument tray	2
Medical bottle	2
Tweezers cup	4
Cotton cup	2
Contaminated equipment placed tank	1
Built-in waste tank	1
Built-in endoscope barrel cup	1
Built-in LED cold light source	1
Film viewer	1
Blow-off equipment system(warning system)	1
Doctor stool	1
Microcomputer control system	1
Imaging system:	
1 CCD/3CCD camera	
15 inch LCD monitor	
Computer (17inch LCD display/ professional endoscopy software	
Printer	
Fiber cable	
Built out hemia light/built out LED cold light source	
Endoscope:	
2 2.7/4mm, 0° /30° otoscope	
4 2.7/4mm, 0° /30° otoscope	
2 8mm, 70° /90° laryngoscope	
LED head light	
Constant temperature rinsing system	
SPECIFICATIONS:	
Voltage : AC230V	50Hz
Power : 1800W	
Body size : 94*57*80 (cm)	
Weight : N.W/130kg	G.W/195kg



Cushion's colour choose



### Simple motor patient chair technical parameters:

- ① Voltage : AC230V 50Hz
- ② Power : 280W(max)
- ③ Allowable stress : 250kg
- ④ Seat movement itinerary : 480mm(min) - 630mm(max)
- ⑤ Backrest 90 degree
- ⑥ Pillow movement itinerary : 100mm (it can fold and remove)
- ⑦ Weight : 55kg
- ⑧ Control by foot switch

### Standard motor patient chair technical parameters:

- ① Voltage : AC230V 50Hz
- ② Power : 280W(max)
- ③ Allowable stress : 250kg
- ④ Seat movement itinerary : 495mm(min) - 615mm(max)
- ⑤ Backrest 90-135 degrees
- ⑥ Pillow movement itinerary : 100mm (it can fold and remove)
- ⑦ Seat 180 degree rotate
- ⑧ Weight : 67kg
- ⑨ Control by foot switch

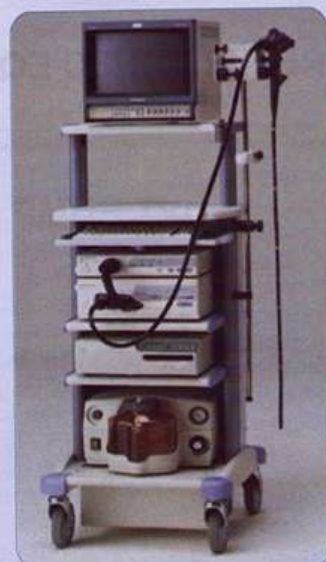




## REFURBISHED ENDOSCOPES

- ♣ Video Gastroscope
- ♣ Video Colonoscope
- ♣ Video ERCP Scope
- ♣ Video Bronchoscope

<b>Make</b>	<b>Olympus</b>
<b>Condition</b>	<b>Excellent</b>
<b>Series</b>	<b>140, 150, 160, 170 &amp; 180</b>



### STRYKER 1488



#### Premium Optics & CMOS Technology

- Image Brightness and Clarity
- High Noise Immunity
- Designed for Patient Safety – Enhanced light sensitivity of the 1488 allows the light source to run at lower power levels that can reduce the risk of patient/drape burns while still providing premium optical performance

#### Cross-Specialty Standardization

- Nine Surgical Specialties – optimized performance to address the specific color and lighting needs of individual surgical procedures
- Stryker provides a comprehensive cross-specialty surgical solution designed to maximize the value of our customers' investment in Stryker
- Enables standardization of video systems to one platform

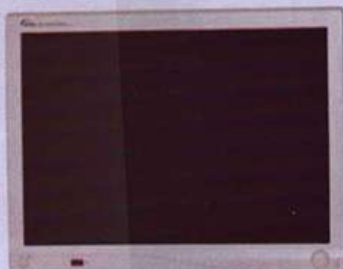
As the third generation in Stryker's HD 3-Chip endoscopy camera line, the 1288 HD 3-Chip Camera features a 1920x1080p resolution and nine specialty settings, resulting in optimum color resolution and brightness.

Additional benefits of the 1288 HD 3-Chip Camera include four fully programmable buttons on the endoscopic camera head, giving the surgeon the command to control the light source settings directly from the camera head. Also, by allowing for backwards compatibility with past generation digital capture devices, scopes and various flat panels, the 1288 HD 3-Chip Camera continues to offer new solutions for improved visualization within the operating room.

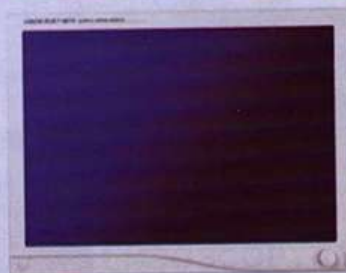
#### Features & Benefits:

- 1920x1080p resolution
- Improved clarity, focus and sharpness
- Wireless transmission capabilities when used with the Stryker
- WiSE wireless monitor
- Touch screen LCD interface
- Fully programmable camera head buttons

### STRYKER 1288



26" LCD MONITOR



26" LED MONITOR



REFURBISHED EQUIPMENT

**DVT PUMP**



**PHILIPS MONITOR**

MP-30 | MP-50 | MP-70



**EMERGENCY VENTILATOR**



**CARL ZEISS OPMI CS-NC SURGICAL MICROSCOPE**

Integrated 300W xenon illumination  
Variable Optics from 200mm-400mm  
Electronic Contraves floor stand

**TECHNICAL SPECIFICATIONS**

**Binocular Inclination:** 0-180°, face to face package  
**Objective lens:** Integrated 207mm-400mm working distance  
**Magnification:** High resolution, motorized via handlebars  
**Focus:** microfine, motorized via handlebars  
**Eyepieces:** 10X widefield  
**Pupillary Distance:** 55mm-75mm  
**Filter:** standard UV  
**Light source:** 300W xenon with halogen back-up  
**Illumination field:** Constant at all magnification levels  
**Mounting system:** Contraves  
**Horizontal reach:** Arm-62", End of optics-69"  
**Vertical Range (Micro focus):** 75"  
**Arm:** free floating via handlebars



**ICU VENTILATORS**

**DRAEGER EVITA XL**



**MAQUET SERVO VENTILATOR**





**MEDICAL SPECIALITY TROLLEY**



**MEDICAL TROLLEYS**



**MONITOR TROLLEYS**



**ULTRASOUND TROLLEYS**



**ECG TROLLEYS**



**MONITOR TROLLEYS**



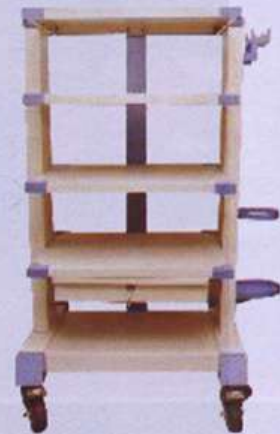
**ULTRASOUND TROLLEYS**



**TROLLEYS**



**TROLLEYS**



**ENDOSCOPY TROLLEYS**





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