RIGID ENDOSCOPE: TELESCOPES

Made by Schölly EXCELLENCE INSIDE

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
- Instrumen 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

CE 0434

A low-cost portable endoscopy camera

cymo

The Endoscopy camera 1150 is a low-cost ultra-high sensitive endoscopy camera. With the latest CCD technology, the 1150 camera provides two times higher sensitivity compared to conventional CCD cameras. This substantially reduces the requirements to the light source. The camera incorporates a 10 bit digital image processor which offers superior colour rendition and high dynamic range. The excellent price-benefit ratio makes the 1150 an ideal camera for portable endoscopy use.

FEATURES:

- **Ultra- high sensitive CCD image sensor**

From conventional camera

From 1156 endoscopy camera

- **10-bit digital image processing**

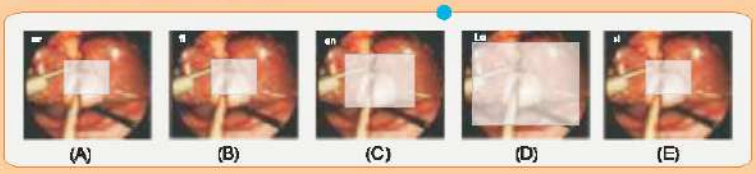
  The full 10-bit digital image processing provides high dynamic image and excellent colour rendition.

- **White balance function**

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

- **Five user settings for different endoscopic conditions**

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



- **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 equipsa 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	For5 users
Video Outputs	1× composite (BNC) 1× Y/C (S-VHS)
Environment	+10°C- +40°C temperature 30%- 75% relative humidity
Classification	Classi as per Annex VII of Directive 93/42/EEC with potential equalization

CAMERA HEAD

Dimensions (Diax 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

CE 0434

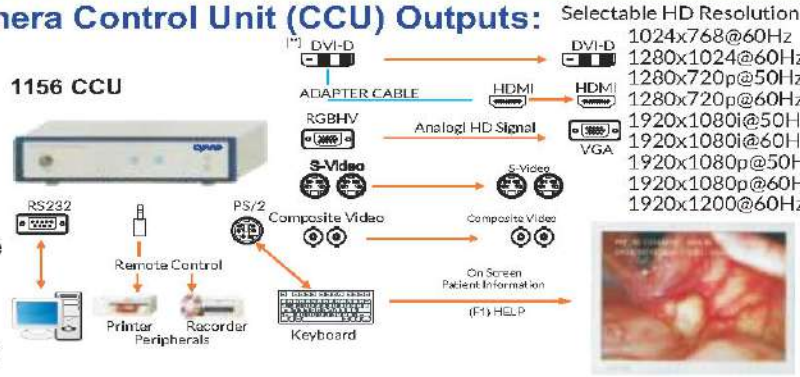
1 CCD Endoscope Camera with HD Option

*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:



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 (Wx 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 T 1.0 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

CE 0434

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 istinguishable. 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 illumniation
- 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(1), 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: (1) HDMI support via an adapter

Advanced Image Enhancement

Original Image

Clarity Enhancement

Color Enhancement

Camera Control Unit (CCU) Outputs:

6160 CCU

6698 HD ENDOSCOPY CAMERA WITH USB RECORDING

CE 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 istinguishable.

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 illumniation
- 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(1), 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: (1) HDMI support via included adapter.

Advanced Image Enhancement

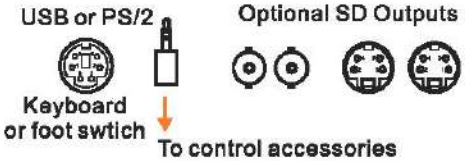
Original Image

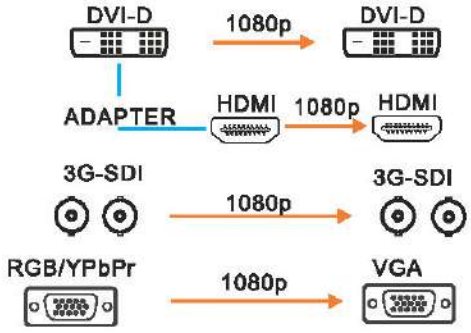
Clarity Enhancement

Color Enhancement

Camera Control Unit (CCU) Outputs:

6698 CCU





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.

Unparalled 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 costefficient 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.

COMFORT FROM PAIN

ADVANCE Co2 INSUFFLATOR

VEGA 30L

SALIENT FEATURES

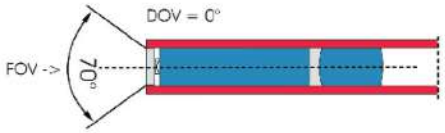
- High pressure Co2 from the main cylinder can be connected direct to the insufflator
- Micro controller based closed loop technology ensures precise control of pressure/flow parameters
- Electronic memory retains last set values of pressure, flow rate and pumped gas volume
- Inbuilt gas warmer provides 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 grater 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.

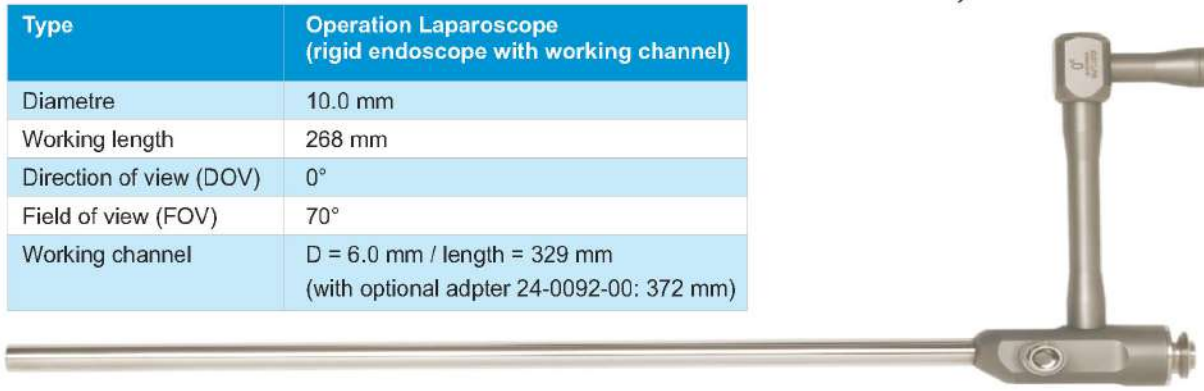
SINGLE PUNCTURE LAPAROSCOPE

Tubal Ligation



TECHNICAL DATA

Type	Operation Laparoscope (rigid endoscope with working channel)
Diametre	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, Laproscopy 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, Thorasic, 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

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

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.

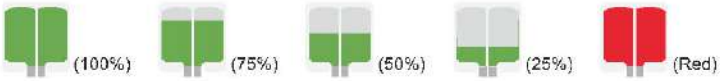
Technical Features:

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 delicated 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

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	800v	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	800v	1.5
	STANDARD	150W	100Ω	700v	1.7

LAPAROSCOPY HAND INSTRUMENTS

ø10x330mm clip applicator

E2001.1 Single action

E2001.2 Double action

E2001.3 Right angle

E2001.5
Detachable, Single action

E2001.7
For Johnson clip

E2001.8
For plastic clip

E2005.2 (17mm)
Dissecting forceps, curved
(Head length 17mm)

E2005.3 30° (17mm)
Dissecting forceps, 30° angled
(Head length 17mm)

E2007.5 (15mm)
Automatic grasping forceps
(Head length 15mm)

PPSU handle
(134°C 2bar)

E2006.2 (15mm)
Scissors, curved
(Head length 15mm)

E2006.4 (9mm)
Scissors, hooked, single action
(Head length 9mm)

E2005.8 (13mm)
Fixation grasping forceps
(Head length 13mm)

E2007.8 (18mm)
Gallbladder grasping
forceps, rough toothed
(Head length 18mm)

E2007.9 (21mm)
Gallbladder grasping forceps
(Head length 21mm)

E2007.6 (15mm)
Grasping forceps

E2005.9 (17mm)
Fixation grasping forceps, loop
(Head length 17mm)

E2319 (15mm)
Insulated rotating dissecting
forceps with tooth
(bipolar, double action)

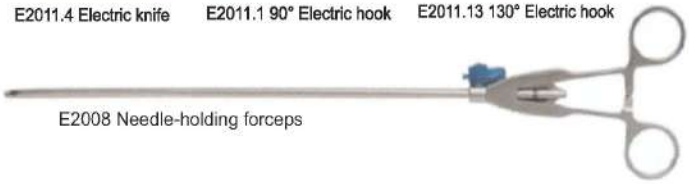
E2319.1 (15mm)
Insulated rotating
Grasping forceps with tooth
(bipolar, double action)

E2319.2 (17mm)
Insulated rotating
grasping forceps with tooth
(bipolar, double action)

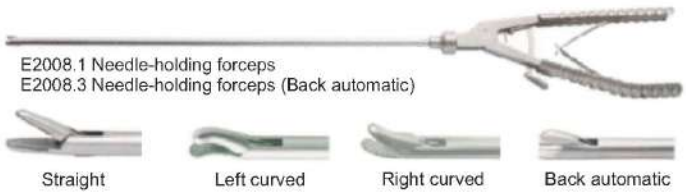
E2011.4 Electric knife

E2011.1 90° Electric hook

E2011.13 130° Electric hook



E2008 Needle-holding forceps



E2008.1 Needle-holding forceps
E2008.3 Needle-holding forceps (Back automatic)

Straight

Left curved

Right curved

Back automatic

E2016.3 ø10.5 with protection
E2016.4 ø5.5 with protection
E2016.7 ø11 with protection

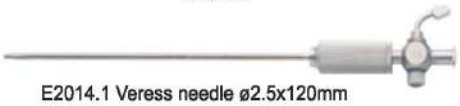
E2016.3A ø10.5 Spiral with protection

E2016.5	ø10.5	Cylindric
E2016.6	ø5.5	Cylindric
E2016.8	**ø11**	**Cylindric**
E2016.9	ø12	Cylindric
E2016.10	ø6	Cylindric

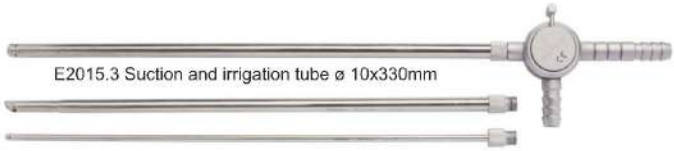
Washer

Reducer

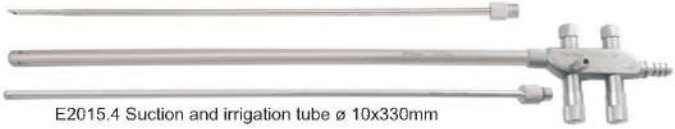
Reducer



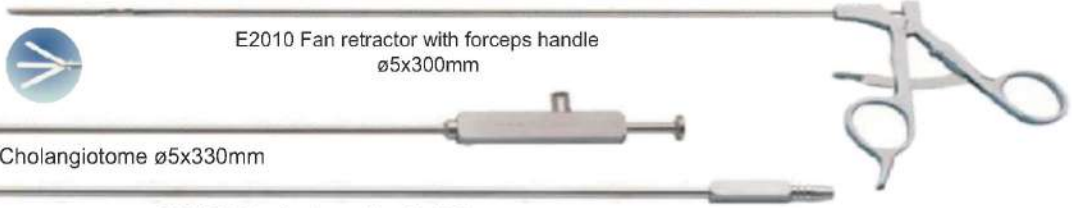
E2014.1 Veress needle ø2.5x120mm
E2014.2 Veress needle ø2.5x120mm



E2015.3 Suction and irrigation tube ø 10x330mm



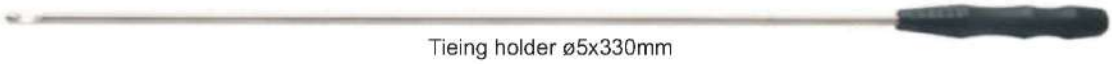
E2015.4 Suction and irrigation tube ø 10x330mm



E2010 Fan retractor with forceps handle
ø5x300mm

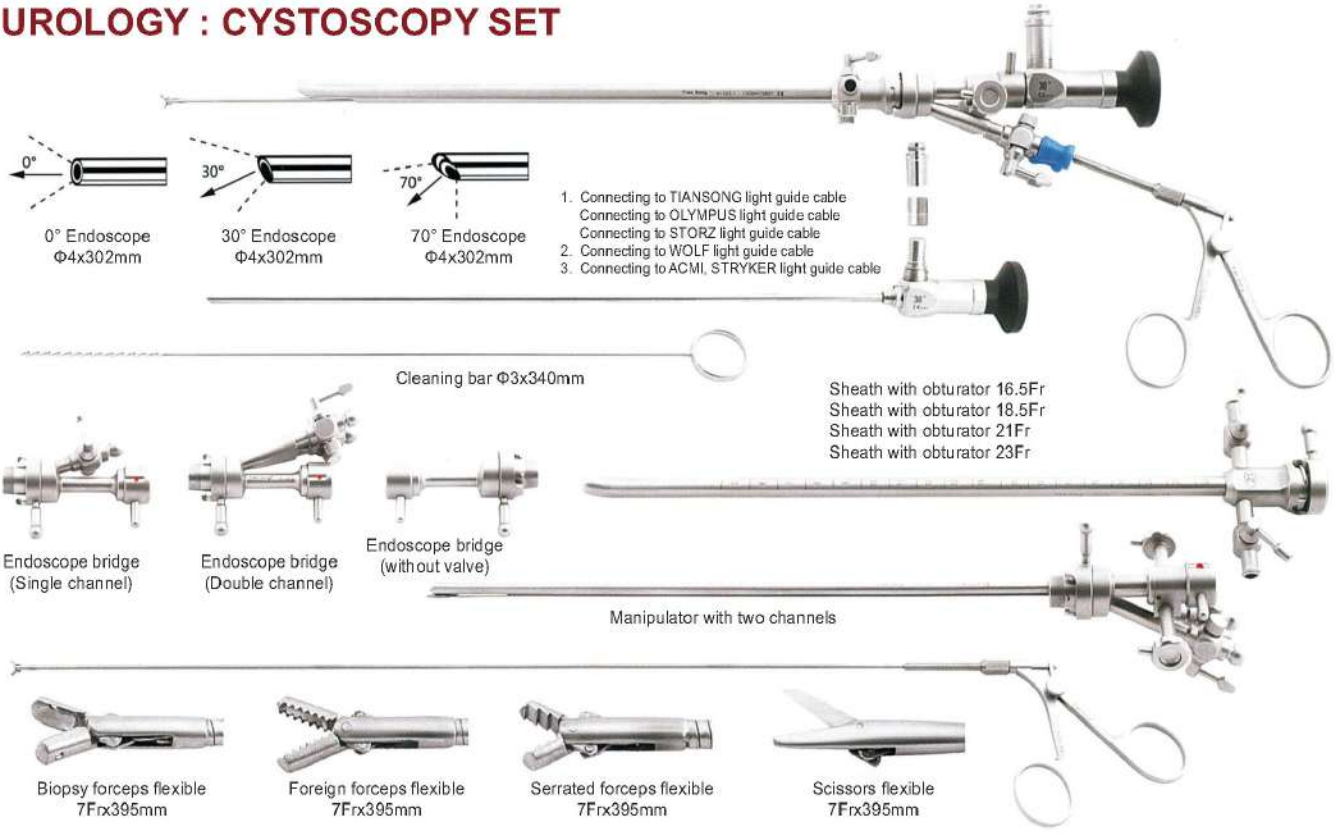
E2012 Cholangiotome ø5x330mm

E2013 Bile duct needle ø5x330mm

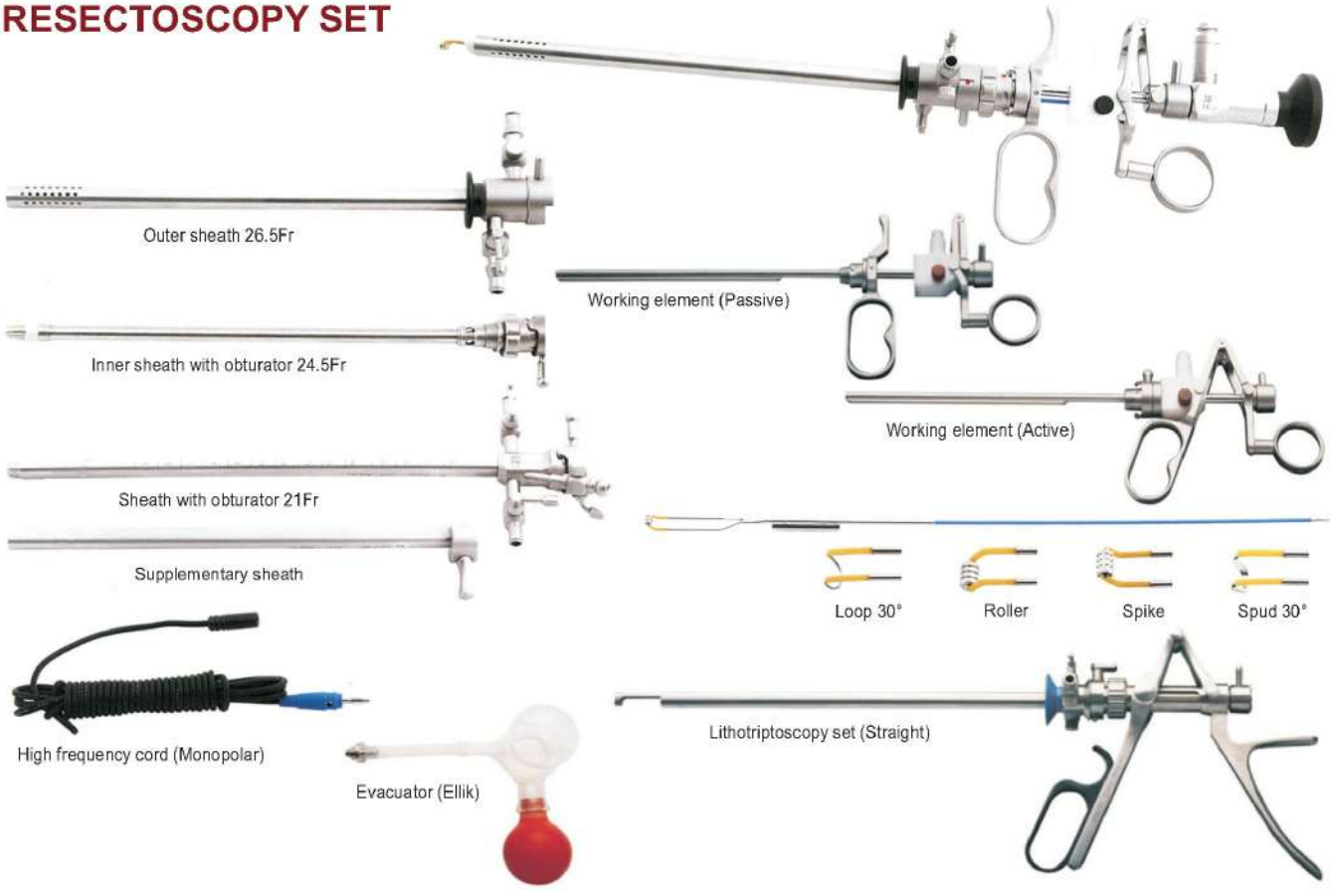


Tieing holder ø5x330mm

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

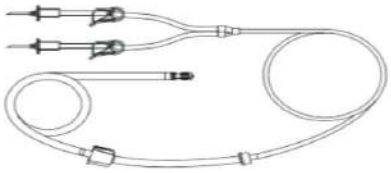
Electrical : Primary: 100-240 VAC , 50/60 Hz, Power Rating 150 VA , Fuses : Two

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

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

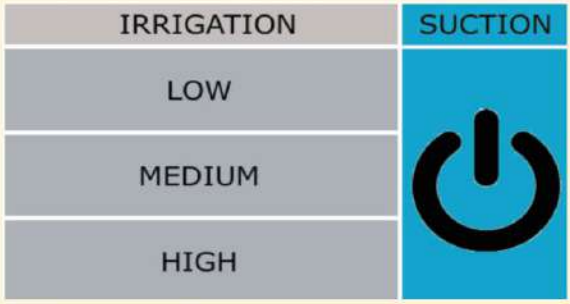
Transportation and Storage : - 20*C to 60*C , 10%-75% Relative humidity
700-1060 hpa

- 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

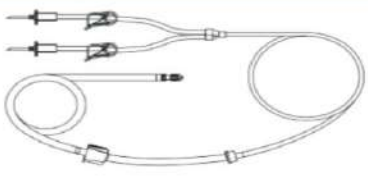
Electrical : Primary: 100-240 VAC , 50/60 Hz, Power Rating 150 VA , Fuses : Two

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

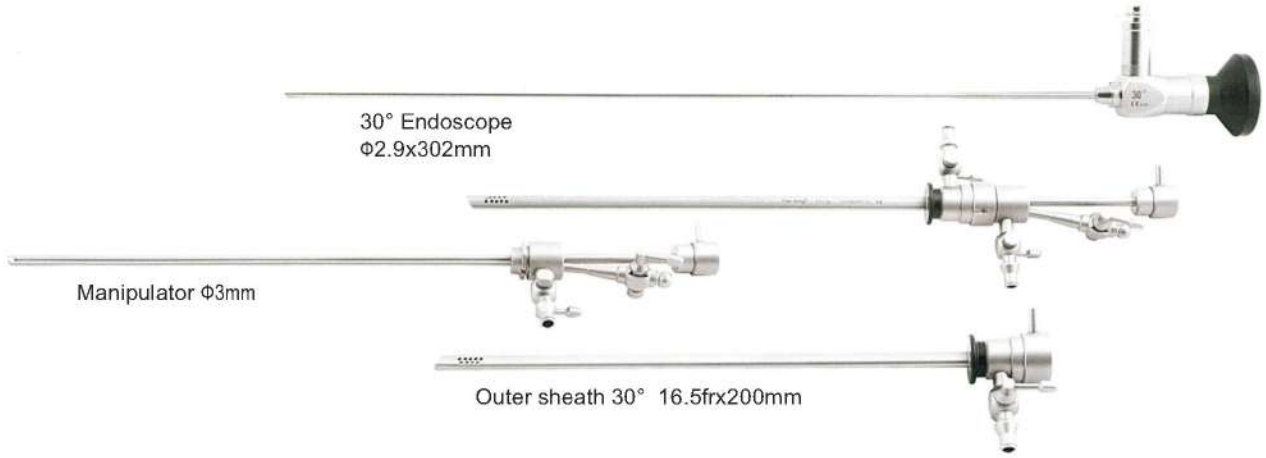
- LAP Irrigation and Suction Pump.
- Fluid flow rate management.
- Fast and accurate pressure control.
- Large numeric and symbolic display.
- Visual and acoustic overpressure and perforation alarm.
- Disposable tubings in D EHP-free material
- Non-Disposable sterilizable connectors and tubings.
- Calculates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

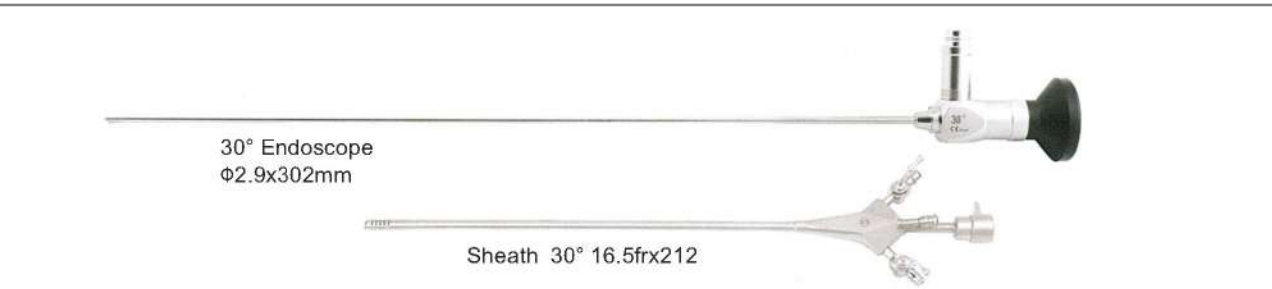


UL-2-S-1M Reusable Tubing Set

GYAENOCOLOGY : OFFICE HYSTEROSCOPY SET

CE 0434





CE 0434

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 Tracar Cannuala 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, partal 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

CE 0434

G0021 Wide angle 0° ø2.7x175mm
G0031 Wide angle 0° ø4x175mm
G0051 134° 2bar
Wide angle autoclave
0° ø4z175mm

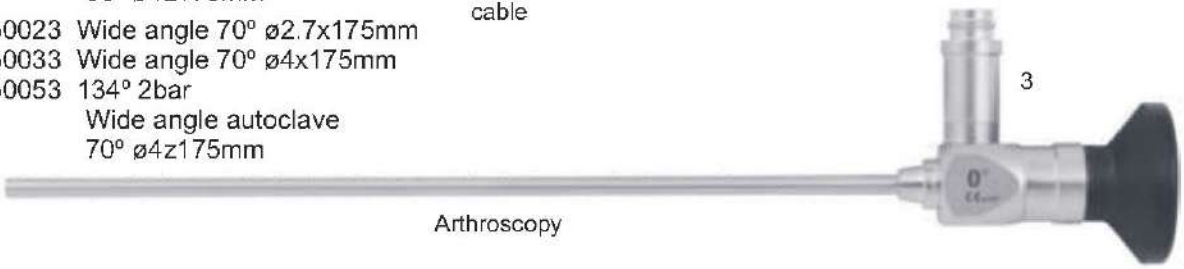
G0022 Wide angle 30° ø2.7x175mm
G0032 Wide angle 30° ø4x175mm
G0052 134° 2bar
Wide angle autoclave
30° ø4z175mm

G0023 Wide angle 70° ø2.7x175mm
G0033 Wide angle 70° ø4x175mm
G0053 134° 2bar
Wide angle autoclave
70° ø4z175mm

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

1

2



3

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

Arthroscopy forceps

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

G2101 45°
Punch forceps, head upward 45°

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

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

Meniscus
G2202 Left down back biting
G2203 Right down back biting
G2211 Grasping forceps with tooth, clasping
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 memeory 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.**
- Pwer 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
- Internalleast 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 stred 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) x139.7 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

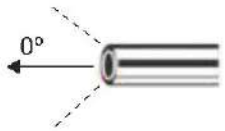
4007 Connection wire

4004 Aseptic transfer kit

4005 Key

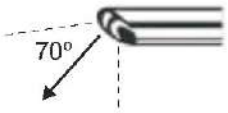
ENT SURGERY: OTOSCOPE, SINOSCOPE, NASAL OPERATING FORCEPS

CE 0434

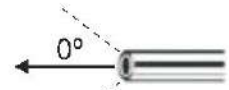


C0010 0° ø2.7x105mm
C0010.1B 0° ø3x90mm
C0010.1C 0° ø3.3x90mm (wireless)
C0020. 0° ø2.7x45mm
C0030.1 0° ø4x45mm

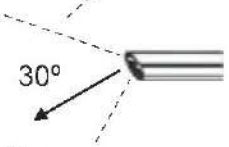
C0012 30° ø2.7x105mm
C0022 30° ø2.7x45mm
C0032 30° ø4.45mm
C0032.3 30° ø4x45mm 2 bar 134°
Autoclavable



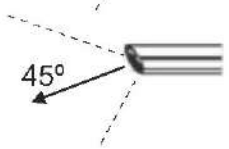
C0013 70° ø2.7x105mm
C0023 70° ø2.7x45mm
C0033 70° ø4x45mm



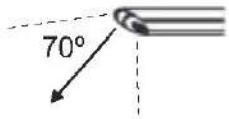
B0010 0° ø4x175mm
B0110 0° ø4x175mm Wide angle
B0210 0° ø2.7x.175mm Pediatric
B0120 0° ø4x175mm 134°C 2bar wide angle autoclavable



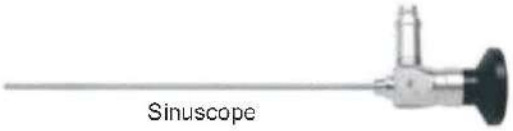
B0012 30° ø4x175mm
B0112 30° ø4x175mm Wide angle
B0212 30° ø2.7x.175mm Pediatric
B0122 30° ø4x175mm 134°C 2bar wide angle autoclavable



B0016 45° ø4x175mm



B0013 70° ø4x175mm
B0113 70° ø4x175mm Wide angle
B0213 70° ø2.7x.175mm Pediatric
B0123 70° ø4x175mm 134°C 2bar wide angle autoclavable



B0040 0° ø4x175mm
B0042 30° ø4x175mm
B0043 70° ø4x175mm
B0044 45° ø4x175mm

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

B2019
Nasal Biopsy forceps, straigh
ø3.5x110mm

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

B2028 110mm
Nasal foreign body forceps, without hook

B2029 110mm
Nasal foreign body forceps, with hook

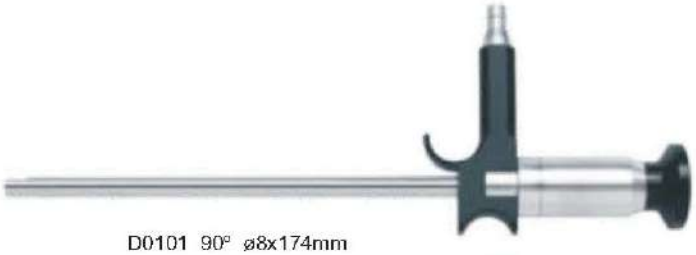
B2020
ø3.5x110mm
Nasal biopsy forceps

B2021
ø3.5x110mm
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°

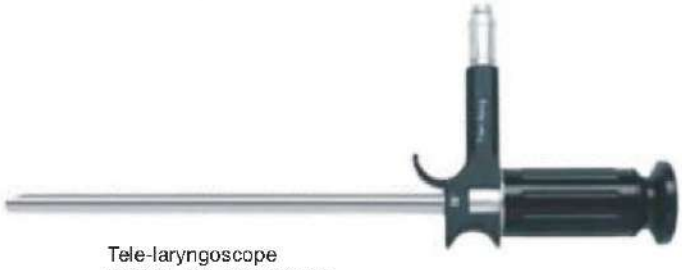
Nasal grasping forceps 105mm
B2043.1 1151°
long curved downward 115°
B2043.3 90° - 115°
long curved, upward 115°

ENT SURGERY : LARYNGOSCOPE, SELF RETAINING LARYNGOSCOPE



D0101 90° ø8x174mm

D0104 70° ø8x170mm
D0104 70° ø8x170mm
134°C 2bar Autoclavable



Tele-laryngoscope
D0102 90° ø8x174mm
D0103 70° ø8x178mm

Tele-laryngoscope
D0106 12° ø4x185mm
D0107 0° ø4x183mm

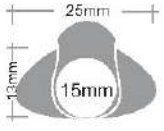
SELF-RETAINING LARYNGOSCOPY SET

Laryngoscope Holder
D6002
D6003

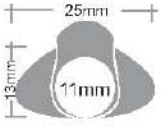
D2083
Laryngoscope tube, for d2083
D1001 26x170mm
D1002 20x170mm

Laryngoscope tube
D1003 (L)
D1004 (S)

Laryngoscope tube
D1011 (L)
D1012 (S)



Oval (L)

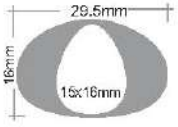


Oval (S)

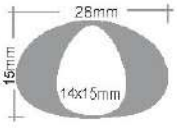
Laryngoscope tube
for 12° Endoscope
D1013.1 (L)
D1014.1 (S)

Laryngoscope tube
for 0° Endoscope
D1013 (L)
D1014 (S)

Laryngoscope tube
D2101 (L)
D2102 (S)



Triangle (L)



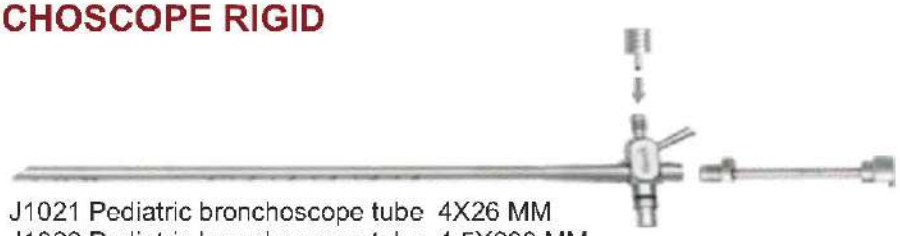
Triangle (S)

Laryngoscope tube
D2103 (L)
D2104 (S)

Direct Laryngoscope
D2076.1 (L)
D2076.2 (M)
D2076.3 (S)

Lateral Laryngoscope
D2007.1 (L)
D2077.2 (M)
D2077.3 (S)

BRONCHOSCOPE RIGID



J1029

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

	**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

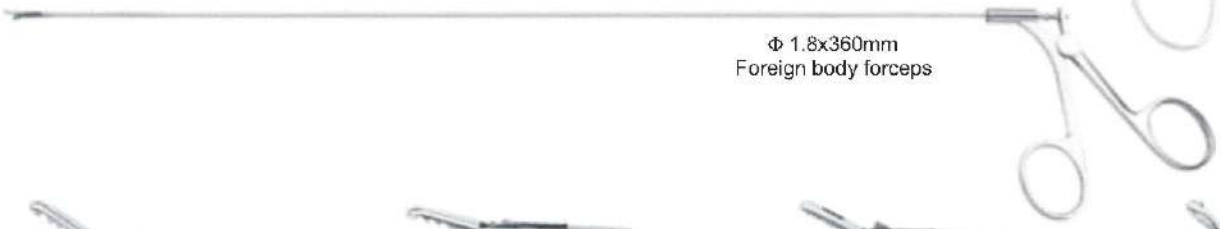
J1011 Φ 4x260mm
J1012 Φ 4.5x280mm
J1013 Φ 5x260mm
J1014 Φ 5.5x280mm
J1015 Φ 6x350mm

Adult bronchoscope tube
J1016 Φ 6.5x350mm
J1017 Φ 7x400mm

Optical forceps

J2211 Φ 4.3x330mm
Crocodile head

J2212 Φ 4.3x330mm
Peanut head



Φ 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

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

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_2 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 N20 supply
Higher efficiency forged regulators
High Pracision pressure relief cum Nun return value

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) O2 & N20 gauge two each for high visibility & clarity
Provision for selectatec Vaporizers, Hypoxic guard
Circle Absorbaer & 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 manoeuver 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 suppy: 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 12/L/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 Efficienty
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 02, N20, Air
Yokes For Two Each Cylinders of 02 and N20
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 manouevre 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_2, N_2O, Air
Flow 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 12/L/max
Air tube: 0.1L/min~15L/min
O2 and N2O Linkage Device, Hypoxy Gurad
Oxygen Flush: 25L/min~75L/min
Gas Source pressure:
O2: 0.25Mpa~0.65Mpa
N2O: 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 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

Linear Design which can be easily upgrade to adding Monitor, $Etco_2$ 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
$Fi0_2$
Alarms: MV, Pressure, Vte, Rate, fiO_2,
Mains Features Battery low
Battery Discharged, O_2 Supply features, Apnea, Circuit Occlusion

Frame
Rust Proof Epoxy Coated High Strength Frame
2 Big Drawers
Pipeline Attachment for O2, N_2O
Yoke-2 each for O_2, N_2O
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 manouevre in any environment.
Configured with Startup prestest 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_2, N_2O, Air
Flow Meter:
Five tube Flow meter Bobbin Type
O_2 tube: 0.1L/min~1L/max. 1L/min 10Lmax
N_2O tube: 0.1L/min~1L/max. 1L/min 12/L/max
Air tube: 0.1L/min~15L/min
O_2 and N_2O Linkage Device, Hypoxy Gurad
Oxygen Flush: 25L/min~75L/min
Gas Source pressure:
O_2: 0.25Mpa~0.65Mpa
N_2O: 0.25Mpa~0.65Mpa
Air: 0.25Mpa~0.65Mpa
Battery Backup : 120 Minutes

Auxiliary Oxygen System with Flow Meter

Measurement
Pressure Values: Peak, Prate Pmean Pmin, PEEP
Volume/Flow Value: VTI, VTE, MV, MV, MVSPONT, ftotal, fspn,
Rinsp, Cdyn 1:E (4.1~1:8) Fio_2
Optional: Spo_2 & $Etco_2$
Loop: Pressure – Volume, Volume – Flow
Alarms
MV, Pressure, Vte, Rate, fiO2,
Mains Features Battery low
Battery Discharged, O2 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_2, N_2O, Air
Yoke-2 each for O_2, N_2O
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_2, NIBP, Temp, Resp, $Etco_2$, IBP, Touch screen Printer, Anesthesia gas against monitoring
2. Basal Flow

ACCESSORIES

Main Frame: High quality pipeline attachments, option to upgrade software, sylinder attachment for N_2O & O_2 - 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

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

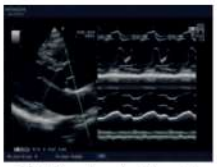
Flexibility of operating console and monitor position combine with easy, safe mobility

- **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.

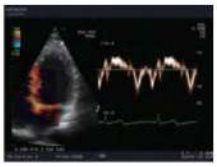
Powerful functions that support reliable imaging

- **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.

eFLOW / DDD (Dual Dynamic Display)



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, FMPR, 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

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.

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.

Diverse Transducer Line-up

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 delicated functions keys
Easy connectiong with central monitoring system
96 hours data storage
Suitable for adult,pediatrics and neonates
Monitors end-tidal CO2 and inspired CO2 accuracy at high respiration rates
Gas monitoring wirh cutting edge water filter tube

Standard parameters:
3/5-Lead ECG, Hwatime SpO2 , NIBP, RESP, 2-Temp, PR
Optional:
EtCO2 , Touchscreen , Thermal Recorder ,WLAN accessory , Nellcor-SPO2 ,2-IB P,Masimo SpO2,Masimo AGM .

Economic, Durable design

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

Trend graphs

Build 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 Slectable:I,II,III,aVR,aVL,aVF,V(5 Lead) ;I,II or III(3 lead)
Gain Slection x1/4,x1/2,x1 and x2
Frequency Response
Diagnostic:0.05 to 90HZ
Monitor:0.5 to 35 HZ
Surgery:1-15HZ
Calibration Signa 1 (mV p-p), Accuracy : ±5%
ECG Signal Range ±8 m V (Vp-p)
Review Available

Pulse Oxemetry

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

Respiration Rate

Rate: Adult: 0 ~ 120 rpm
Neo/Ped 0 ~ 150 rpm
Resolution 1rpm
Accuracy ± 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
Measurment cycle <40 sec,typical
Cycles(Selectable) 2,3,5,10,15,30min 1,2,4hr
STAT model 5 minutes of continuous reading
Max Allowable Cuff Presure
Adult: 297±3 mmHg
Pediatric: 240±3 mmHg
Neonate: 147±3 mmHg
Resolution 1mmHg
Transducer Accurancy ±2mmHg or±2% of reading

Temperature

Channels 2
Range, Accuracy 0°-50℃: ±0.1℃
Display Resolution ±0.1℃
Probe YSI 400 and YSI 700 Series

Heart (Pulse) Rate

Source User Slectable:Smart,ECG,Pleth,NIBP
Range Adult 15-300 bpm
Pediatric 15-350 bpm
Accurancy ±1bpm or ±1% whichever is greate

Environment

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

Trends

Memory
96 hr at 30 second intervals for a NIBP reading every 5 mintues
Display trabular;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
Accurancy	±1bpm or ±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

CE 0434

MCF - 21B
(Mars B)
Fetal Monitor (CTG machine)

Screen Size 12.1inch

Feature

- Folded 12.1inch TFT LCD high-brightness screen with a wide viewing angle and large numberics.
- 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.

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

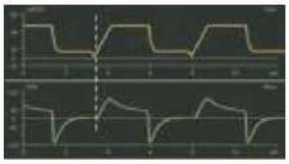
SIMV is a combined mode, according to the selected SIMV mode, patient receives mandatory ventilation. During mandatory respirations, the patient can breathe spontaneously under pressure support ventilation mode. Mandatory ventilation can be volume-controlled ventilation or pressure-controlled ventilation.

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

Suficient 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 PEEPi 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 difibrillation**
- PC-based event review (optional)
- Multilingual sections are available. (optional)

AED7000 (Automatic External Defibrillator) is a difibrillation 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 difibrillator can analyze the patients ECG, make a judgement for the patients cardiac condition and indicate whether the difibrillation is needed and the difibrillation strength. It can not only enhances 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 difibrillation 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,II, 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

Battary

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 continuos ECG monitoring.
Additional parameters will effect operating time with different functions.

SpO2 Module

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

Recorder

Paper : 50mm therma
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 padle
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

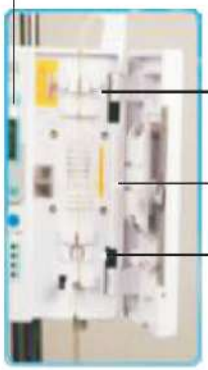
SPECIFICATIONS	
Infusion mode	Rate mode
	Time mode
	Body weight mode
	Intermittent infusion mode (Optional)
	Drug library mode (Optional)
Applicable Syringe	Various brands of sterile syringes: 5ml, 10ml, 20ml, 30ml, 50ml/60ml
Accuracy	±2% (After syringe correct calibration)
Infusion rate	5ml syringe: 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 °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



Speakable Pump

Specification

Speed Range : 1ml~1200ml/h(increment by 1ml/h)
1~400drop/min (increment by 1drop/min)
Infusion Accuracy : Within ± 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>25ul
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 ±5% (after correct calibration)
Mechanical precision:
Within ±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 ±200mmHg (106.7kPa±26.7kPa
Medium: 500mmHg ±100mmHg(66.7kPa±13.3kPa
Low: 300mmHg ±100mmHg (40.7kPa±13.3kPa)

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≥1,600mAh, 4 hours internal battery backup
Bubble detector:
Ultrasonic wave detector; detection sensitivity ≥25μL
Fuse:
F1AL/250V, 2 pc inside
Power Consumption:
30VA
Operating Condition:
Ambient temperature: +5℃~+40℃;
Relative humidity: 20~90%
Atmospheric pressure: 86.0kpa~106.0kpa
Transport & Storage Condition:
Ambient temperature: -30℃~+55℃
Relative humidity: ≤95%
Equipment Classification:
Class I, internal power supply, Type CF

OPERATION THEATER CEILING LED SURGICAL LIGHTS

Technical Data

Intensity	80,000 Lux±10%
	80,000 Lux±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±10%
	80,000 Lux±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 ?re 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-voilet 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

ACCESSORIES STAND (OPTIONAL)

ACC HORSE SHOE OA-10

LEG SUPPORT

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.

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 83-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


■ Well-designed working table (luxury glass table for medical instruments and medicine bottle)


■ Control panel


■ Built-in cold light source(LED)


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

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

Cushion's colour choose

Dark Green Sky Blue Ivory

Standard motor patient chair technical parameters:

1. Voltage : AC230V 50Hz
2. Power : 280W(max)
3. Allowable stress : 250kg
4. Seat movement itinerary : 495mm(min) - 815mm(max)
5. Backrest 90-135 degress
6. Pillow movement itinerary : 100mm (it can fold and remove)
7. Seat 180 degree rotate
8. Weight : 87kg
9. Control by foot switch

REFURBISHED ENDOSCOPES

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

Make	*Olympus*
Condition	*Excellent*
Series	*140, 150, 160, 170 & 180*

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

STRYKER 1288

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

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 Inclinable: 0-180°, face to face package
Objective lens: Intigrated 207mm-400mm working distance
Magnification: High resolution, motorized via handelbars
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 al all magnification levels
Mounting ststem: 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