Laparoscopic Camera System

HD3

Dimension	350mm x 380mm x 80mm
Weight	5.0Kg
Resolution	1920 * 1080 pixels
Image Sensor	3-chip CMOS
Optical Interface	Integrated parfocal zoom objective
Focal Length	F = 14mm － 30mm(2.0X)
Scan Mode	Progressive
Frequency	50/60 Hz
Display Format	16 : 9
Output Signal	HD-SDI x 2, S － Video x 1, DVI x 2
Data Management	Full HD Recording with External USB Storage Flash disk(up to 256GB)

Protection Against Moisture   Camera head IPX7

Protection Against Electric shock   Class I, Type BF

The main components of Endoscope Camera system are Camera Head and Image processing host, which are shown in the figure below:
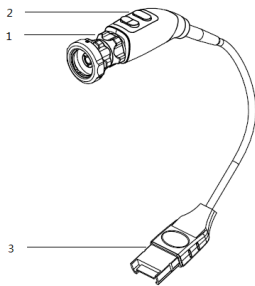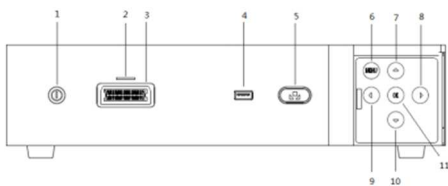

Figure 1 Camera Head

Figure 2 Front panel of image processing host

Descriptions of front panel:

1. Standby switch: Open and standby image processor
2. Indicator lamp of camera connection: Indicates weather or not camera is connected to image processor
3. Camera connection port: Connect to camera
4. USB interface: Connect to USB storage device
5. White balance button: Start white balance operation
6. Menu button: Enter system setting menu
7. "Up" navigation button: Move left in system setting menu
8. "Right" navigation button: Move up in system setting menu
9. "Left" navigation button: Move right in system setting menu
10. "Down" navigation button: Move down in system setting menu
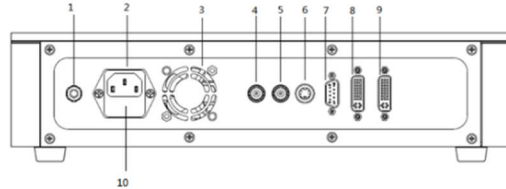11. "OK" button: Select "OK"

Figure 3 Real panel of image processing host

Description of rear panel:

1. Equipotential column
2. Input interface of AC power
3. Air outlet
4. SDI output: Digital video output
5. SDI output: Digital video output
6. S-Video output: Analog video output
7. Serial control interface: Connected to external devices.
8. DVI output: Digital video output
9. DVI output: Digital video output
10. Fuse cartridge

HB200L LED Light Source

Dimension	350mm x 380mm x 80mm
Weight	6.6Kg
Lamp	High Brightness White LED
Lamp Life	Approx. 20,000h
Color Temperature	3000-7000K
Protection Against Electric Shock	Class I, Type CF
Intensity	≥3000000Lux（max center）

PV26/PV27 Monitor

LCD Size		
	PV26	26 inch
	PV27	27 inch
Resolution		1920 * 1080 pixels
Contrast Ratio		1400 : 1
Backlight Brightness		800 cd/m2
Input Signal		Y/Pb/Pr, R/G/B, CVBS, S-Video,DVI, SDI, VGA
Output Signal		SDI, DVI
Max Viewing Angel		178°
Loop Out		Yes
Picture in Picture		Yes

Laparoscope

Field of View		
	M 01030A/M 01000A	80°
Direction of View		
	M 01000A	0°
	M 01030A	30°
Working Length		
	M 01030A/M 01000A	321mm
Diameter		
	M 01030A/M 01000A	10mm
Depth of View		
	M 01030A/M 01000A	3-200mm
Color Rendering Index		
	M 01030A/M 01000A	90
Autoclavable		
	M 01030A/M 01000A	Yes

Insufflator

Model	HS-50F	HS-50H	HS-50V	HS-50S	HS-30
Flow Rate	50L/min	50L/min	50L/min	50L/min	30L/min
Heating	√	√	×	×	×
Smoke Evacuation	√	×	√	×	×
Modes	5	5	5	5	5
Touch Screen	√	√	√	√	√

Dimension   380*350*141 （mm）

Flow Range

HS-50F/HS-50V/HS-50H/HS-50S   0.1L/min - 50L/min

HS-30S   0.1L/min - 30L/min

Pressure Range   1mmHg - 30mmHg

Modes   Bariatric, Adult, Pediatric, Retroperitoneum, Customize

Smoke Evacuation(HS-50F/HS-50V)   Yes

Heating function(HS-50F/HS-50H)   Yes, Temperature ≤41°C
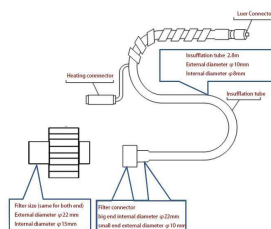
Display   7 inch color touch screen

Protection against harmful ingress of water or particulate matter Foot pedal IPX8
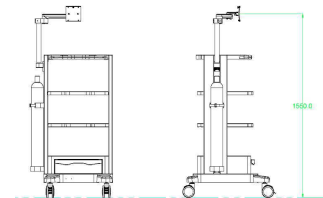
The insufflator is an ordinary-type device (sealed device that does not protect from liquid inlet)

Protection against electric shock   Type CF

Method of sterilization   By other methods validated and described by the manufacturer

Insufflation tube   Trolley

Some of functions marked with an asterisk may not be available. Please contact your local Mindray sales representative for the most current information.

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