DRM-FHD-HG

FULL HD Endoscope System

Product Features

- 1/2.8 SONY CMOS FULL HD Image Sensor
- FHD camera head and LED cold light source integrated
- Built-in USB FULL HD image storage, Integrated photo/video recording system
- IPX8 waterproof camera

Technical Data

Camera head	· Full HD imaging (1920 x 1080)
	· 1/2.8" SONY CMOS
	· IPX8 waterproof
	· Full HD optical coupler C-mount standard
Voltage range (current consumption)	· 100-240 V (50 VA)
Frequency	· 50-60 Hz
Device protection	· 2x T3,15 A
Video system	· Image resolution: FHD 1920 x 1080
	· Horizontal resolution: ≥1200 TVL,Tolerance 20%
	· SNR: 60DB,Tolerance 20%
	· Scanning system: Progressive Scanning
	· White balance automatically
Light source	· Built-in150W LED cold light source
Recording (optional)	· Image format: JPG 1920 x 1080
	· Video format: Full HD 1920 x 1080;
	Mpeg-4 (H.264 Codec); Image rate 60fps
	· Connection: USB
Connections (Standard)	Video out terminal:
	· 1x DVI
	· 1x HDMI
	· 1x CVBS
Protection class (acc.to IEC 60601-1)	· I
Safety class	· BF
Standard	· IEC 60601-1-2
Device classification (EU) 2017/745, annex VIII	· I
Features	· White balance
	· Freeze function
	· Zoom in/Zoom out
	· Touch Buttons/Touch Screen
	· USB storage
	· Photo capture/Video recording
Language	· English/Chinese/Chinese (Traditional)/Japanese/Korean/Russian/Spain

DRM-FHD-HG-24

Endoscope Camera

ALL IN ONE ENDOSCOPY CAMERA

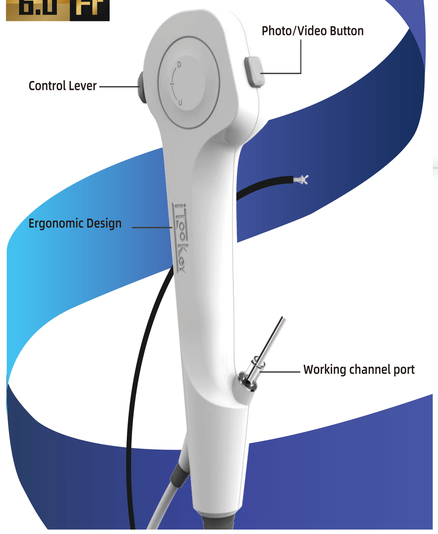
- 1/2.3 SONY CMOS FULL HD Image Sensor
- Can be matched with stroboscopic light source for stroboscopic laryngoscopy
- FHD camera head and LED cold light source integrated
- Built-in USB FULL HD image storage, Integrated photo/video recording system
- Universal C-mount threading
- IPX8 waterproof camera

Technical Data

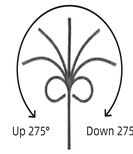
Camera head	· Full HD imaging (1920 x 1080)
	· 1/2.3" SONY CMOS
	· IPX8 waterproof
	· Full HD optical coupler C-mount standard
Voltage range (current consumption)	· 100-240 V (50 VA)
Frequency	· 50-60 Hz
Device protection	· 2x T3,15 A
Video system	· Image resolution: FHD 1920 x 1080
	· Horizontal resolution: ≥1200 TVL,Tolerance 20%
	· SNR: 60DB,Tolerance 20%
	· Scanning system: Progressive Scanning
	· White balance automatically
Monitor	· 24 inch
Light source	· Built-in150W LED cold light source
Recording (optional)	· Image format: JPG 1920 x 1080
	· Video format: Full HD 1920 x 1080;
	Mpeg-4 (H.264 Codec); Image rate 60fps
	· Connection: USB
Connections(Standard)	Video out terminal:
	· 1x DVI
	· 1x HDMI
	· 1x CVBS
Protection class (acc.to IEC 60601-1)	· I
Safety class	· BF
Standard	· IEC 60601-1-2
Device classification (EU) 2017/745, annex VIII	· I
Features	· White balance
	· Freeze function
	· Zoom in/Zoom out
	· Touch Buttons
	· USB storage
	· Photo capture/Video recording
Language	· English/Chinese/Chinese (Traditional)/Japanese/Korean/Russian/Spain
Dimensions	· 575(L)x105(W)x395(H)
Weight	· 12KG

Disposable Digital Flexible Ureteroscopy

6.0 Fr



HUGOMED FLEX HD



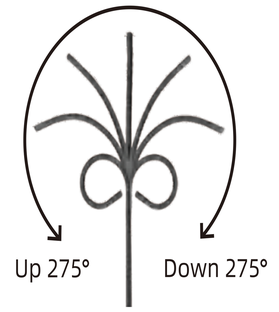
Power Supply Input	DC12V
Screen Size	12.1"
Resolution	1280*720
External Interface	TYPE-C, HDMI output three-phase power interface.
Screen	Capacitive touch screen
Functions	White Balance, Brightness Control, Image Capture, Video Capture.

Specifications

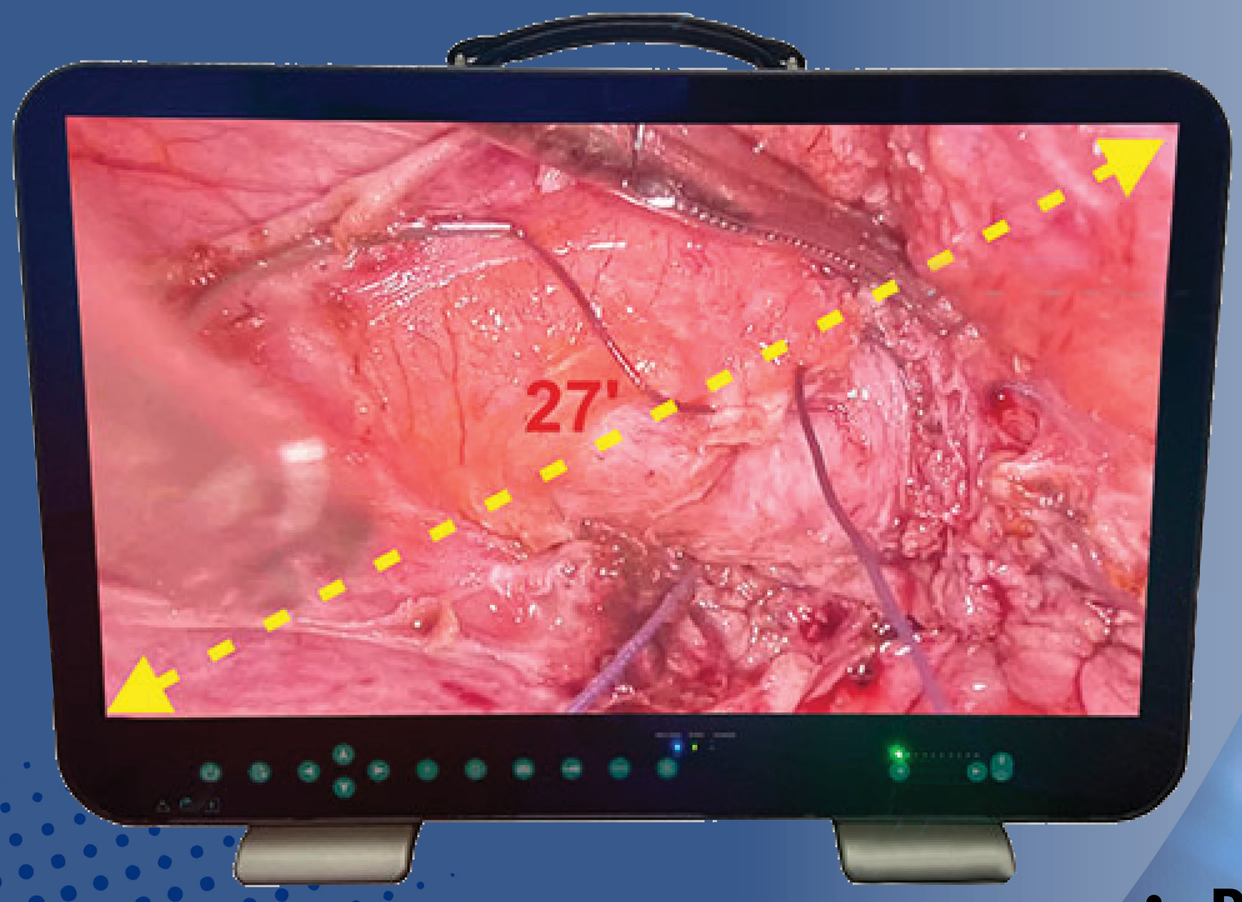
Optical System				
Field of View	120°			
Direction of View	Forward viewing			
Depth of Field	5-50mm			
Light Source	LED			
Insertion Section				
Model	SP-SNGSYJ 2.0	SP-SNGSYJ 2.2	SP-SNGSYJ 2.5	SP-SNGSYJ 2.8
Insertion Tube Outer Diameter	2.0mm (6.0Fr)	2.2mm (6.6Fr)	2.5mm (7.5Fr)	2.8mm (8.4Fr)
Working Channel Inner Diameter	0.8mm (2.4Fr)	1.2mm(3.6Fr)	1.2mm(3.6Fr)	1.2mm(3.6Fr)
Resolution	400*400			
Working Length	650mm			
Bending Section				
Deflection Angle	Up 300°,Down 300°		Up 275°,Down 275°	
Total Length	860mm			

Advantages

- Ergonomic, Light weight handle with deflection freeze to reduce fatigue
- Avoid cross-infection and improve surgical safety
- Support real-time screen mirroring to a external large screen
- Advanced image quality and stable system



4K ULTRA HD SMART-ALL IN ONE CAMERA



- 3840 x 2160 - TRUE 4K - ULTRA HD
- IMAGE / VIDEO - PLAYBACK
- IMAGE / VIDEO - COMPARISON CHART
- DIFFERENT SURGICAL MODE
- SELF CUSTOMISABLE COLORS
- DICOM INTEGRATED ETHERNET CONNECTIVITY
- INTEGRATED DATA MANAGEMENT SYSTEM

- 8 WAY CUSTOMISABLE BUTTONS
- IPX8 WATER RESISTANT
- UNIVERSAL C-MOUNT 4K COUPLER

Image processing technical data	Image sensor	1/1.8 inch CMOS SONY
	Effective pixel	8,290,000 pixels
	Resolution (video)	3840×2160
	Scanning mode	progressive scanning
	Aspect Ratio	16:9
	Horizontal Resolution	1200 lines with -20% tolerance &no upper limit
	Vertical Resolution	1600 lines with -20% tolerance &no upper limit
	Brightness response characteristics	The coefficient of determination R2 for linear fitting should be no less than 0.98.
	SNR（Signal-to-Noise Ratio）	50dB with -20% tolerance &no upper limit
	SFR(Spatial Frequency Response)	30%MTF 42 C/(°) ,50%MTF 40 C/(°) with -20% tolerance &no upper limit
	Static Image Latitude	105 with -20% tolerance &no upper limit
	Image Function	White balance, Gain, Brightness,Color,Contrast, DNR,etc.
Camera Head	Optical lens focal length	25mm (standard) ; 18mm,35mm etc. (option)
	Waterproof grade	IPX8
	Camera cable	2.9m
Parameter of light source	Life span	LED ⩾30000 Hrs
	Color rendering index Ra	⩾90
	Color Temperature K	5000～7000K
	Illumination Intensity	> 2,000,000 Lux

Display	Screen	27 inch with anti-splash and glare glass
	Resolution (screen)	3840x2160
Electrical specification	Power supply	AC100-240V
	Input Power	120VA
Control Panle&Interface	Control system	Light-touch control
	Record	Capture and video recording
	Storage	USB disk or Hard disk
	Video output	SDI，HDMI, USB 3.0,DVI,RJ45
Volume &Weight	Product Size	Width 65mm x Height 46mm x Thickness 9mm
	N.W	13 kgs
Working condition of circumstance	Temperature range	10℃～40℃
	Humidity range	10%～85%RH
	Atmospheric pressure	700hPa～1060hPa
Transport and storage condition	Temperature range	-10℃～+55℃
	Humidity range	≤95%
	Atmospheric pressure	500hPa～1060hPa

DRM AND COMPANY

4K ULTRA HD

IMAGING SYSTEMS