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iRis DVR 5

Videoendoscope System



Technical Data

iRis DVR 5

Operating unit

Display size:	5.0" (12.7cm) TFT colour
Display resolution:	VGA (640x480 pixel)
Operating system:	Real-time operating system with on-screen menu Direct action keys / function keys / arrow keys
Languages:	English, German, Polish, French, Spanish, Italian, Turkish
Video interface:	Composite video-out (BNC)
Power supply, primary:	Rechargeable Li-ion battery
Power supply, secondary:	12V adapter (optional accessories)

Documentation

Video format:	MPEG4 (.avi) (with time and date stamp)
Image format:	BMP (.bmp) (with time and date stamp)
Storage:	SDHC Memory card up to 32GB (FAT32)

Camera

Image sensor:	High resolution Super HAD CCD image sensor
Camera control:	White balance, AGC level, Gamma, Shutter, Gain Control, Time exposure

Image control

Functions:	16 step digital zoom/ Horizontal and vertical image inversion/ Brightness /Contrast/ Colour
Text annotation:	Buil-in text overlay generator

Probe

Diameter:	4.0mm	6.0mm	8.0mm
Working length:	1.5 - 4.0m	1.5 - 7.5m	1.5 - 7.5m
Articulation:	4-way / 360°	4-way / 360°	4-way / 360°
Integrated objective lens:	X	-	-
Interchangeable objective:	-	X	X
Side view tip adapter:	X (60° FOV)	X	X
Braid:	Multi-layer tungsten braid on PU jacket		

Illumination

Type:	High-power LED with high transmission fiberoptics
Illumination control:	3 steps
Colour temperature:	approx. 6500k.
Average lamp lifetime:	approx. 5000h

Device

Ergonomics:	± 90° rotatable display, alt. ±90° rotatable handle
Weight:	1.35Kg
Dimensions:	180 mm X 105mm X 45mm
Housing:	Rugged PU, with integrated rubber shock caps
Tip operating temperature:	-25°C to +80°C / 140°C less than 5 Minutes
System operating temperature:	-25°C to +46°C
Storage temperature:	-25°C to +60°C
Relative humidity:	95% less than - non condensing
Waterproof:	Probe and distal End up to 1 bar- 10.2m H2O
Resistance:	Probe and distal End to oils and saline (5%)

Focusable and interchangeable objectives lens and side view tip adapters

Probe	DOV	FOV	DOF	CODE
4.0mm	0°	60°	7-50mm	
4.0mm	0°	60°	4-10mm	SD
4.0mm	0°	90°	15mm-∞	
4.0mm	0°	90°	10-30mm	SD
4.0mm**	90°	60°	5-45mm	SVTA
6.0mm	0°	60°	5mm-∞	BLACK
6.0mm	0°	60°	8mm-∞	YELLOW-B
6.0mm	0°	90°	5mm-∞	RED
6.0mm	0°	120°	3mm-∞	GREEN
6.0mm**	90°	60°	5-15mm	SVTA-CF
6.0mm**	90°	60°	15-50mm	SVTA-FF
8.0mm	0°	28°	25mm-∞	BLUE
8.0mm	0°	60°	5mm-∞	BLACK
8.0mm	0°	60°	8mm-∞	YELLOW-B
8.0mm	0°	90°	8mm-∞	SILVER-B
8.0mm	0°	90°	5mm-∞	RED
8.0mm**	90°	60°	5mm-∞	SVTA