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iCONCEPTS
IMAGING SOLUTIONS

iLED SYSTEM

Videoendoscope System



For more information please contact:

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Technical Data

Operating unit

Display:	5.0" (12.7cm) TFT colour/nonreflecting
Operating system:	Real-time operating system, with on-screen menu
User interface:	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 Operating time more than 2h
Power supply, secondary:	12V adapter (optional accessories)

Documentation

Saving/recording:	Video recording Direct image capturing / Freeze modus
Video format:	MPEG4 (.avi) (with time and date stamp)
Image format:	BMP (.bmp) (with time and Date stamp) Could be converted to JPG at PC
Storage:	SDHC memory card up to 32GB (FAT32) 8GB /SDHC in device when delivered

Camera control

Integration modes:	automatic frame integration standard / manuell / short / long
White balance:	Factory default or user defined
AGC level (gain control):	Adjustable
Gamma:	Adjustable

Image control

Zoom:	3.5X / 16 step variable
Invert:	Horizontal and vertical image inversion
Brightness:	Adjustable
Contrast:	Adjustable
Colour:	Adjustable
Text annotation:	Built-in text overlay generator

Construction

Ergonomics:	rotatable display unit
System weight:	1,12kg
Dimensions:	205mm X 180mm X 70mm
Housing:	Rugged PU, with integrated rubber shock caps

Operating environment

System operating temp.:	-13°F to 115°F (-25°C to +50°C)
Storage temperature:	-13°F to 140°F (-25°C to +60°C)
Protection Class:	IP53
Relative humidity:	95% max. - non condensing

Probe

Sensor:	High Resolution 1/6" Image Sensor		
Resolution:	total 752 x 582 px / 440.000 pxls		
Diameter:	4.0mm	6.0mm	8.0mm
Working length:	4.9 - 13.1ft (1.5 - 4.0m)	4.9 -13.1ft (1.5 - 7.5m)	4.9 - 13.1ft (1.5 - 7.5m)
Articulation (bending neck):	4-way / 360°	4-way / 360°	4-way / 360°
Integrated objective lens:	X	-	-
Interchang. objective lens:	-	X	X
Side view tip adapter:	X (with 60° FOV lens)	X	X
Braid:	Multi-layer tungsten braid on PU jacket		
Interchang. Objective Lens:	X		
Side View Tip Adapter:	X		
Braid:	Multi-layered tungsten braid		
Protection Class:	IP53		

Illumination

Tip:	High Power LED
Average lamp lifetime:	approx. 15.000h

Operating environment

Tip operating temperature:	-13°F to 176°F (-25°C to +80°C) (284°F/140°C less than 5 Minutes)
Storage temperature:	-13°F to 140°F (-25°C to +60°C)
Relative humidity:	95% max. - non condensing
Protection Class:	IP55
Waterproof:	Probe and distal end up to 14.7 psi (1 bar- 10.2m H2O) Hydrostatic head of 5 meters
Resistance:	Probe and distal end to oils, saline (5%) and petroleum fluids

Objective

PROBE	DOV	FOV	DOF	CODE
4.0mm	0°	60°	7-50mm	
4.0mm	0°	90°	15mm-∞	
4.0mm	90°	60°	5-45mm	SVTA
Interchangeable Objective				
PROBE	DOV	FOV	DOF	CODE
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