IT CONCEPTS
IMAGING SOLUTIONS

iRis DVR X

Videoendoscope System

Technical Data

iRis DVR X

Operating unit

Display size:	5.0" (12.7cm) TFT colour
Display resolution:	VGA (640 x 480 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/ 2hours operation
Power supply, secondary:	12 V 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 32GB (FAT32)

Image analysis

Method:	Comparative Measurement

Camera

Image sensor:	AIT CMOS 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:	4.0 mm	6.0 mm
Working lenght:	1.5 m - 4.0m	1.5 m - 7.5m
Articulation:	4-way / 360°	4-way / 360°
Integrated objectiv lens:	90° FOV	90° FOV
Side view tip adapter:	-	x
Braid:	Multi-layer tungsten braid on PU jacket	

Illumination

Type:	High-power LED	
	with high transmission fiberoptics	6mm LED on the tip
Illumination control:	3 steps	
Colour temperature:	approx. 6500 k.	
Average lamp lifetime:	approx. 5000 h	

Device

Ergonomics:	± 90° rotatable display, alt. ±90° rotatable handle
Weight:	1.35Kg
Dimensions:	180 mm X 105 mm X 45 mm
Housing:	Rugged PU, with integrated rubber shock caps
Tip operating temperature:	140°C less than 5 Minutes
	-25°C to +80°C
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%)

Protection:

Insertiontube (Prob tip):	IP67
Case:	IP55