

iRis *DVR* 5

The Videoscope



Bright and high-contrast display
Excellent image quality
Rotatable Monitor
Ergonomic handle

Precise articulation control
High Power LED light source
Temperature resistance up to 140 degree

iRis DVR 5

Portable Videoscope System



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High Power LED light source

Temperature resistant up to 140°C

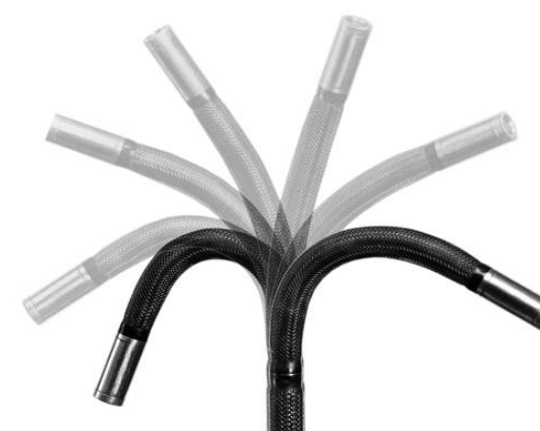
Focusable and interchangeable objectives lens and side view tip adapters



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

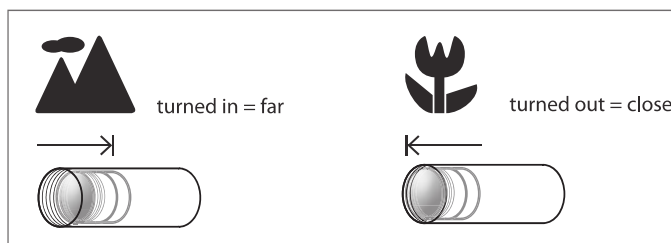
Tactile feedback

Thanks to the non-motorized infinite joystick control, users can navigate the probe responsively with tactile feel and precise tip positioning.



SMART-FOCUS

Close focus and far focus



DOV = Direction of view CF = Close focus FOV = Field of view FF = Far focus DOF = Depth of focus B = Bright objective lens SVTA = Side view tip adapter (90°DOV) **Compatible to FOV60°

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)

Image analysis

Method:	Comparative Measurement
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
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Text annotation:	Built-in text overlay generator
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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. 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%)

MADE IN GERMANY

IT Concepts designs and manufactures worldwide with over 500 highly qualified and motivated employees electronic and optomechanical assembly groups and systems.

The product range extends from individual components for industrial and medical endoscopes over to video endoscopic systems and solutions for Remote Visual Inspection and Security.

For more than 10 years IT Concepts develops and produces all endoscopes „Made in Germany“ at the European headquarters Lahnau near Wetzlar, the City-of-Optics.

The top priority for the entire team in Lahnau is to provide customers with expertise and excellent service

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