

iRis *DVR*

360° Industrial Videoscope



Neu!

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Front view

0° Monitor rotation
90° Handle rotation

Side view

0° Monitor rotation
0° Handle rotation



VGA Bildschirm
High Resolution, High Contrast, bright. The 3.5" (8,9cm) display provides razor-sharp images.

2.97lb (1,35kg)
Extremely compact dimensions, minimal weight and extremely robust are further outstanding features of the iRis DVR.

Lithium-ion battery
Replaceable high-capacity battery with 2 hours of operation.

Edge protection
Shock-absorbing rubber caps protect from shocks, and the penetration of liquids and dust.

Memory Card
Protected slot for SD Memory Cards up to 32GB.

Functionality
By the means of direct action keys and the intuitive on-screen menu, even first time user are able to navigate quick and easy through the various functions, settings and options.

DVR Digital Video Recording
Record fully digital every single movement of a component in a brilliant video quality. In addition users are now able to document the speed/quickness of a movement e.g. a dripping leak, a rotating fan...

On-Screen-Menu
Clear, intuitive and easy. Keep a constant overview of the current functions, settings and options.

Display unit = Monitor
Scope Handle = Endoscope Handgriff
Operating Unit = Monitor + Scope handle



Advanced Inspection Technologies

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Ergonomic. Unique. Innovative. 360° ergonomically rotating operating unit, 2.97lb (1,35kg) light weight, high resolution digital videorecording; these are the outstanding features of the iRis DVR compact Videoscope. No matter if you need to crawl under a component or you must climb a ladder, with the wireless iRis DVR System you inspect difficult to access test objects with razor-sharp digital still images or video sequences. Just as easily as the intuitive operation of the software and the precise 360° tipcontrol of the probe articulation. iRis DVR. Powerful. Reliable. Precise. Rugged.

Side view

90° Monitor rotation
0° Handle rotation

Rear view

0° Monitor rotation
0° Handle rotation



Light intensity
Optimum illumination of the inspection object is achieved by 3-stage adjustable high-power LED.

Neck strap
Snap fasteners for use of the comfortable soft neoprene neck strap.

Video output
Allows to connect an external monitor or screen.

External power supply
In addition to the included battery, the iRis DVR can also be operated with the also included AC adapter.

360° Ergonomie
Ergonomic, Unique and Innovative. The iRis DVR is the world's first compact videoscope with a 180° rotating screen alternatively a 180° rotatable handle. Adjust your screen for optimized view and/or rotate the scopehandle for a comfortable operation of the tip articulation of the distal end, either if the user is left- or right-handed.

4-Way tip articulation control
Precise, robust and direct. Thanks to the felt mechanical probe control, user can navigate the probe tip (distal end) instantaneous easy and intuitive in any desired /needed position.

LIGHT

Integrated LED
Bright light, economical and innovative. The high-power LED is characterized by high-intensity white light, 5000 hours of operating time and an extremely low energy consumption. In addition the LED is absolutely non-destructively and safely integrated in the handle of the iRis.

Image Capturing
By the push of the capture button, inspection images are stored on SD memory card (up to 32GB)

2.97lb
1.35kg

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CCD Videoprobe

The high-resolution CCD image sensor provides the basis for detailed, lifelike images with realistic color reproduction. Focussable interchangeable objective lenses with different field of view (FOV), depth of focus (DOF) and Aperture values allow individual adjustment to any inspection environment. Thus the iRis DVR provides unsurpassed image quality and contrast.

8,0mm
4-way tip articulation
Working length 4.9-24.6ft

(1,5m-7,5m)

6,0mm
4-way tip articulation
Working length 4,9-24.6ft

(1,5m-7,5m)

4,0mm
4-way tip articulation
Working length 4.9-13.1ft

(1,5m-4,0m)



Illumination

Compared to other Videoscopes, the LED Lightsource is not integrated in the Distal end of the scope, it is absolutely non-destructive integrated in the handpiece of the iRis.

This intelligent design allows it to use more powerful LED's and achieves a much more intense and homogeneous illumination of the cavity by the means of fiber optic light guides. In addition, this technology concept saves repair costs in case of damage, eg crushing of the probe tip.

Mechanical articulation
Instant, accurate and slender.

2.97lb
1.35kg

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Delivery Set and Accessories

As varied as the applications of endoscopy are so extensive is the range of interchangeable objective lenses. Depending on the inspection environment different field of view values (FOV), direction of viewing directions (DOV), depth of field (DOF) and f-stops required. The iRis DVR always has the right lens for sharp, clear images and videos.

Simplify inspections in your field of applications and increase work efficiency. Optimize or expand the capabilities of the iRis DVR Videoscope with useful accessories.



8GB SD HC
Memory Card



Chargeable Battery¹



Battery charger¹



iRis Case¹



Sun Shield¹



Neck-Strap¹



FOV 28°

*Focussable
int. Objective Lens



FOV 60°

*Focussable
int. Objective Lens



FOV 60°

*Focussable
int. Objective Lens



FOV 90°

*Focussable
int. Objective Lens



FOV 90°

*Focussable
int. Objective Lens



*90° Side View
Tip-Adapter



*Holding device



*Rigidizer



*Guide Tube



*Centering Device



¹Delivery Set
*Optional Accessories

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Operating Unit

Display Size:	3,5" (8.9cm) TFT Colour
Display Resolution:	VGA (640x480 Pixel)
Operating System:	Realtime operating System, with On-Screen-Menu
User Interface:	Direct Action Keys, Function-Keys, Arrow-Keys
Languages:	Englisch, French, Spanish, Italian, German
Video interface:	Cinch, VGA Video Out
Power supply, primary:	changable Li-Ion-Battery (Charger is provided)
Power supply, secondary:	12V Adapter

Documentation

Video Format:	AVI (.avi)
Image Format:	BMP (.bmp)
Storage:	SD-HC-Memory Card up to 32GB (FAT32)

Camera control

Image Sensor:	High-Resolution Color SUPER HAD™ CCD
Camera Control / Exposure:	Integration modes: Automatic, Short, Long, Manuell
White Balance:	yes, factory default or user defined
AGC-Level:	yes, adjustable
Gamma:	yes, adjustable

Image control

Zoom:	x3.5 (Digital)
Invert:	horizontal und vertical Image Inversion
Brightness:	yes, adjustable
Contrast:	yes, adjustable
Color:	yes, adjustable
Text Annotation:	Built-in full screen text overlay generator

Illumination

Type:	High-Power Whitelight-LED's with fiber optic light guides
Helligkeitsregelung:	yes, 3-steps
Colour temperature:	ca. 6500k
Average lamp lifetime:	ca. 5000h

Probe

	4.0mm	6.0mm	8.0mm
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:	4-way (Control Levers)	4-way (Control Levers)	4-way (Control Levers)
Articulation angle* L/R U/D:	100°/100° 100°/100°	100°/100° 160°/130°	100°/100° 160°/130°
Integrated Objective Lens:	x	-	-
Interchangable Objective Lens:	-	x	x
Side View Tip Adapter:	o	x	x
Braid:	Tungsten Braid on PU-Jacket		

Construction

Ergonomics:	± 90° rotatable Display Unit, alt. ±90° rotatable Scope Handle
System Weight:	2.97lb (1.35kg) Operating Unit
Dimensions:	???.? x ????.? x ???. in (???mm x ???mm x ???mm)
Housing:	rugged PU, with integrated rubber shock caps
Frame:	Alloy
Protection Class:	IP53

Operating Environment

Tip Operating Temperature:	+14°F to 176°F (-10°C bis +80°C)
System Operating Temperature:	-13°F to 115°F (-25°C bis +45°C)
Storage Temperature:	-13°F to 115°F (-25°C bis +45°C)
Relative Humidity:	95% max. - non condensing
Waterproof:	Probe and distal end up to 14,7 psi (1 bar- 10,2 m H ₂ O)
Hazardous Environments:	Not rated for use in hazardous environments

*Note: Articulation angle may vary depending on diameter-length combination of the probe.

Interchangable Objective Lenses & SVTA

Probe	DOV	FOV	DOF	CODE	ART. NR.
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	930-00100-0005
6,0mm	0°	60°	5mm-∞	BLACK	930-00100-0002
6,0mm	0°	90°	5mm-∞	RED	930-00200-0006
6,0mm**	90°	60°	5-15mm	SVTA-CF	930-00100-0002
6,0mm**	90°	60°	15-50mm	SVTA-FF	930-00100-0003
8,0mm	0°	28°	25mm-∞	BLUE	930-00200-0004
8,0mm	0°	60°	8mm-∞	YELLOW-B	930-00200-0009
8,0mm	0°	60°	10mm-∞	BLACK	930-00200-0003
8,0mm	0°	90°	5mm-∞	SILVER-B	930-00200-0002
8,0mm	0°	90°	5mm-∞	RED	930-00100-0001
8,0mm**	90°	60°	5mm-∞	SVTA	930-00100-????

DOV = Direction of view

FOV = Field of view

DOF = Depth of focus

SVTA = Side view tip adapter

CF = close Focus

FF = far Focus

B = Bright objective lens

** Compatible with FOV60 °

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