

# iRis *DVR*

360° Industrial Videoscope



**New!**

# iRis DVR

## 360° Industrial Videoscope

### DVR: Digital Video Recording

Record fully digital every single movement of a component in a brilliant video quality and Zoom-Function. In addition users are now able to document the movement from a dripping leak, or a rotating fan...

### HQ Image capturing

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

### VGA Display

High Resolution, High contrast, and brightness. The 3.5" (9cm) display provides razor-sharp images.

### On-Screen-Menu

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

### Functionality

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

### 2.97lb (1.35kg)

Extremely compact dimensions, and the robust construction are further outstanding features.

### Integrated LED

Bright, economical and innovative. The high-power LED is characterized by high-intense white light, 5000 hours of operating time and low energy consumption. In addition the LED is absolutely protected integrated in the handpiece.

### Lithium-ion battery

Replaceable high-capacity battery with more than 2 hours of operation.



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 360° compact Videoscope. No matter if you need to crawl under a component or you have to climb a ladder, with the wireless iRis DVR 360° System you inspect hard to reach 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° tip control of the probe articulation. iRis DVR 360°. Powerful. Reliable. Precise. Rugged.

#### Secondary power supply

In addition to the included battery, the iRis DVR 360° can also be operated with the AC adapter.

#### Light intensity

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

#### 4-way tip articulation control

Precise, robust and direct. Thanks to the sensitive mechanical probe control,

user can navigate the probe tip (distal end) instantaneous easy and intuitive in any desired / needed position.

#### Video output

Video output function available for addizopn viewing or recording.

#### Edge protection

Shock-absorbing rubber caps protects from shocks and penetration of liquids and dust.

#### 360° Ergonomic

Ergonomic, unique and innovative.

The iRis DVR 360° 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 scope handle for a comfortable operation of the tip articulation of the distal end, either if the user is left- or right-handed.

#### Watch Product video

Visit our website to watch Product-demo video and / or Inspection video online on [www.itcworld.de/en](http://www.itcworld.de/en)



2.97lb  
1.35kg

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Interchangeable Objective lens turned in = Far Focus

Interchangeable Objective lens turned out = Close Focus

## CCD Videoprobe

### 4.0mm

4-way tip articulation  
Working length 1.0m - 4.0m

### 6.0mm

4-way tip articulation  
Working length 1.5m-7.5m

### 8.0mm

4-way tip articulation  
Working length 1.5m-7.5m

The high-resolution CCD image sensor provides the basis for detailed, life like images with realistic colour 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 360° provides unsurpassed image quality and contrast.

### Illumination

Compared to other Videoscopes, the LED lightsource is not integrated in the Distal end of the scope, it is absolutely non-destructively integrated in the operating unit of the iRis DVR 360°.

This intelligent design allows it to use more powerful LEDs and achieves a much more intense and homogeneous illumination of the cavity by means of fiber optic light guides.

In addition, this technology concept saves repair costs in case of damage, eg crushing of the probe tip.

### Tungsten Wire Braid

Pushable. Rugged. Reinforced. Extreme durable and wear resistant.

### Mechanical Articulation

Instant, accurate and slender.



+20%  
Light














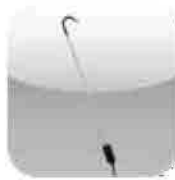




# iRis DVR

## 360° Industrial Videoscope

### Delivery Set and Accessories

As varied as the applications of endoscopy, so extensive is range of interchangeable objective lenses. Depending on the inspection environment different field of view values (FOV), directions of view (DOV), depth of field (DOF) and f-stops are required. The iRis DVR 360° always has the right lens for sharp, clear images and videos.

Simplify inspections in your field of application and increase work efficiency. Optimize or expand the capabilities of the iRis DVR 360° Industrial Videoscope with useful accessories.

					
4GB SD Memory Card	Chargeable Battery <sup>1</sup>	Battery charger <sup>1</sup>	iRis DVR 360° Case <sup>1</sup>	Objective Lens-Box <sup>1</sup>	Neopren Neck-Strap <sup>1</sup>
					
FOV 28° *Focussable Int. Objective Lens	FOV 60° *Focussable Int. Objective Lens	FOV 80° *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	Sunshield	Hands-Free Holding Device

<sup>1</sup> Optional Accessorie  
<sup>2</sup> SDS 8.0mm  
<sup>3</sup> SDS 6.0mm  
<sup>4</sup> Standard-Delivery-Set (SDS)  
<sup>5</sup> SDS 6.0mm



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## 360° Industrial Videoscope

### Operating Unit

Display Size:	3.5" (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:	Composite 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 and vertical Image Inversion
Brightness:	yes, adjustable
Contrast:	yes, adjustable
Colour:	yes, adjustable
Text Annotation:	Built-in full screen text overlay generator

### Illumination

Type:	High-Power White-light-LED's with fiber optic light guides
Illumination Control:	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	-	-
Interchangeable Objective Lens:	-	X	X
Side View Tip Adapter:	Only with FF Objective Lens	X	X
Braid:	Tungsten Braid on PU-Jacket		

### Construction

Ergonomics:	±90° rotatable Display Unit, a.f. ±90° rotatable Scope Handle
System Weight:	2,97lb (1,35kg) Operating Unit
Dimensions:	370mm x 175mm x 75mm
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 to +80°C)
System Operating Temperature:	-13°F to 115°F (-25°C to +45°C)
Storage Temperature:	-13°F to 115°F (-25°C to +45°C)
Relative Humidity:	95% max. - non condensing
Waterproof:	Probe and distal end up to 14,7 psi (1 bar; 10,2 m H <sub>2</sub> O)
Hazardous Environments:	Not rated for use in hazardous environments

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

### Interchangeable Objective Lenses & SVTA

Probe	DOV	FOV	DOF	CODE	ART. NR.
4,0mm	0°	60°	7-80mm	-	-
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 to FOV60

