iT CONCEPTS
Inspection Technology Concepts

iRis DVR 5
The Videoscope

iRis *DVR* 5
The Videoscope

Unique benefits and features

5.0" / 12.7cm display
The world's largest integrated display (5.0" / 12.7cm) on a portable video-scope system provides outstanding razor-sharp images.

3h operation time
Rechargeable high-capacity battery extends uninterupted operation time up to 3 hours.

2.97lb / 1.35Kg
The iRis DVR *5* is one of the lightest portable videoscopes on the market. Compact dimensions and the robust design are further outstanding features.

284°F / 140°C Resistance
With an ambient temperature below 284°F/140°C it is possible to operate the videoprobe up to 5 minutes without any damage.
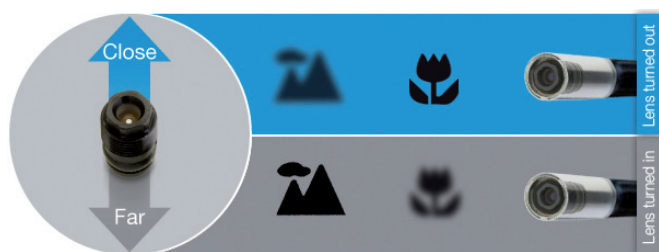
CCD Image Sensor
The CCD "chip on the tip" image sensor is the core element of the iRis DVR *5* and provides a high image quality.

360° articulation
Thanks to the non-motorized infinite joystick control, users can navigate the probe responsively with tactile feel and precise tip positioning.

360° ergonomic
The iRis DVR *5* is the world's first portable videoscope with a 180° rotating display unit and/or a 180° rotatable handle.

High Power LED
Bright, economical and innovative. The high-power LED is characterized by high-intensity white light, 5000 hours of operating time and low energy consumption.

This transparent area s
what you see when usi
a 3.5" / 8.9cm standard
videoscope.

5.0" / 12

43% larger
other po

iRis *DVR* 5

Please note: the product representation corresponds to the original product size (scale 1:1)

SmartFocus

Close
Far

Lens turned out
Lens turned in

Close focus and far focus with only one objective lens. It´s not necessary anymore to buy another objective lens, if a different focal length is needed. In comparison with fix focus lenses, SmartFocus lenses save not only the complicated lens changing process, they also save additional/hidden costs. SmartFocus lenses with different field of view (FOV), f-stops (f-stop) and depth of field (DOF) are available.

See more - be sure.

shows you
ng

.7cm

r image compared to
rtable Videoscopes.

iT CONCEPTS

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Advanced benefits and features

Digital video recording
Records every single movement of a component, fully digitally, in brilliant video quality.

Image capturing
At the push of a button, high-res inspection images are captured and stored on SDHC memory card.

3.5x zoom
Thanks to the 3.5 times zoom, users won´t miss any detail of the visual inspection.

Adjustable light intensity
3-stage adjustable LED prevents overexposure, suppresses image noise arising from readjustment of camera electronics.

Measurement
The iRis DVR *5* uses the comparative measurement method to determine the size of a damaged spot.

Image annotation
By means of the integrated text generator, information can be directly written on the inspection image.

Up to 32GB storage
Approx. 32,000 images or 500 hours of video recording fit onto a 32GB SDHC memory card.

Camera control
The iRis DVR *5* has different camera modes to provide well-balanced inspection images, even in extreme situations.

QuickStart
Switch on and start. It´s that simple. No cables, no plugs, no long booting process, no warm-up phase.

On-screen menu
Even first time users are intuitively guided through the on-screen menu.

Mains power supply
The iRis DVR *5* can also be powered with an AC adapter connected to mains power.

SmartView
The SmartView technology allows an external monitor or display to be connected to the iRis DVR *5* and enables viewing by a second person.

Robust and reliable
Only high-grade materials are used in the iRis DVR *5*. The extremely pliable articulation section ensures precision in control and provides maximum articulation angles.

QuickStart

Quick Start

Battery
No Cables
Aucun câblage
Keine Kabel

Power
One push
Un seule bouton
Ein Knopfdruck

Start
Ready to Inspect
Démarrer l'inspection
Inspektion beginnen

iRis 5
The Videoscope

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
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 (charger and battery are provided in delivery set)
Power supply, secondary:	12V adapter (optional asseccory)

Documentation

Video format:	AVI (.avi) (with time and date stamp)
Image format:	BMP (.bmp) (with time and date stamp)
Storage:	SDHC memory card up to 32GB (FAT32) (8GB is provided in delivery set)

Camera control

Image sensor:	High resolution Super HAD CCD image sensor
White balance:	Factory default or user defined
AGC level (gain control):	Adjustable
Gamma:	Adjustable

Image control

Zoom:	X 3.5
Invert:	Horizontal and vertical image inversion
Brightness:	Adjustable
Contrast:	Adjustable
Colour:	Adjustable
Text annotation:	Built-in full screen text overlay generator

Illumination

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

Probe

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° control	4-way / 360° control	4-way / 360° control
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:	O (only with int. objective lens)	X	x
Braid:	Multi-layer tungsten braid on PU jacket		

Construction

Ergonomics:	± 90° rotatable display unit, alt. ±90° rotatable scope handle
System weight:	1,35Kg
Dimensions:	180mm X 105mm X 45mm
Housing:	Rugged PU, with integrated rubber shock caps
Protection class:	IP53

Operating environment

Tip operating temperature:	-13°F to 176°F (-25°C to +80°C) (284°F/140°C less than 5 Minutes)
System operating temperature:	-13°F to 115°F (-25°C to +46°C)
Storage temperature:	-13°F to 140°F (-25°C to +60°C)
Relative humidity:	95% max. - non condensing
Waterproof:	Probe and distal end up to 14.7 psi (1 bar- 10.2m H_2O)
Resistance:	Probe and distal end to oils and saline (5%)
Carrying Case	508mm x 373mm x 147mm / 4,5kg

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

Interchangeable Objective Lenses & SVTA

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°	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°	8mm-∞	YELLOW-B
8.0mm	0°	60°	10mm-∞	BLACK
8.0mm	0°	90°	5mm-∞	SILVER-B
8.0mm	0°	90°	5mm-∞	RED
8.0mm**	90°	60°	5mm-∞	SVTA

DOV = Direction of View
FOV = Field of View
DOF = Depth of Focus
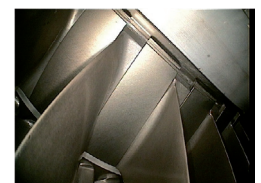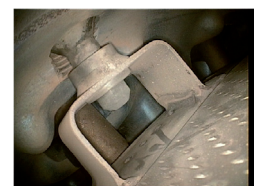SVTA = Side View Tip Adapter

CF = Close Focus
FF = Far Focus
B = Bright objective lens
** Compatible to FOV60 °

Inspection images

IP53

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