# iRis *DVR* X
## The innovative Videoscope

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## Future Camera Technology

## Unique benefits and features

**5.0" / 12.7cm display**
The large integrated display (5.0" / 12.7cm) on the iRis DVR **X** videoscope system provides outstanding razor-sharp images.

**Advanced image sensor**
An advanced state of the art "chip on the tip" image sensor is the core element of the iRis DVR **X** and provides a high image quality.

**At least 6h operation time**
Rechargeable high-capacity battery extends uninterupted operation time up to 6 hours (6mm version). This is 3 times longer compared to most other portable systems.

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

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

**360° ergonomic**
The iRis DVR **X** is the world's first portable videoscope with a 360° rotating.

**Short rigid distal end**
A very short rigid distal end enables extreme manoeuvers while guiding the probe through tight and small radius manoeuvrability.

**High Power LED**
The LEDs are integrated into the tip and are characterised by their superior high-intensity white light.

**Chip on the tip
LED on the tip**
(6mm Version)

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

5.0" / 12.7cm

**43% larger image compared to other portable Videoscopes.**

iRis **DVR** X        **iT CONCEPTS**

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

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## Advanced benfits 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 **X** 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 **X** 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 **X** can also be powered with an AC adapter connected to mains power.

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

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

# iRis X
## The innovative 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 assecory) |

### 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: | Advanced chip on the tip image sensor |
| White balance: | Factory default or user defined |

### 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 (4mm fiber / 6mm - LED on the tip) |
| Illumination control: | 3 steps |
| Colour temperature: | approx. 6500k |
| Average lamp lifetime: | approx. 5000h |

### Probe

| | | |
|---|---|---|
| Diameter: | 4.0mm | 6.0mm |
| Working length: | 4.9 - 13.1ft (1.5 - 4.0m) | 4.9 -13.1ft (1.5 - 7.5m) |
| Articulation (bending neck): | 4-way / 360° control | 4-way / 360° control |
| Articulation angle* L/R \| U/D: | 100°/100° \| 100°/100° | 100°/100° \| 160°/130° |
| Integrated objective lens: | 90° FOV | 90°FOV |
| Braid: | Multi-layer tungsten braid on PU jacket | |

### Construction

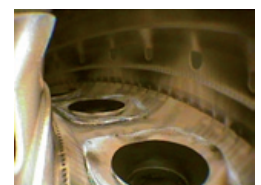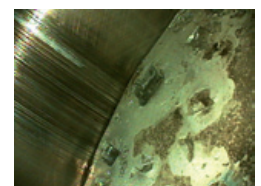| | |
|---|---|
| Ergonomics: | ± 90° rotatable display unit, alt. ±90° rotatable scope handle |
| System weight: | 1,35Kg |
| Dimensions: | 180mm x 105mm x 45mm |
| Housing: | Rugged PU, with integrated rubber shock caps |
| Protection class: | IP53 |

### Operating environment

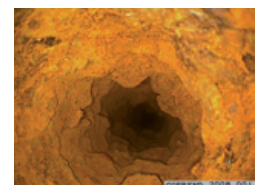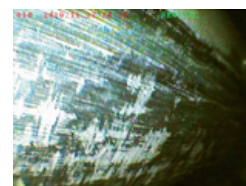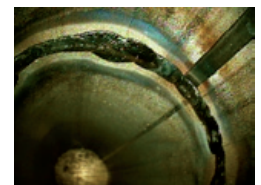| | |
|---|---|
| Tip operating temperature: | -13°F to 176°F (-25°C to +80°C) |
| System operating temperature: | -13°F to 115°F (-25°C to +46°C) |
| Storage temperature: | -13°F to 140°F (-25°C to +60°C) |
| Relative humidity: | 95% max. - non condensing |
| Waterproof: | Probe and distal end up to 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 |

### Manufacturer's Data

| | |
|---|---|
| Country of Origin | Germany |

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

### Inspection images

IT Concepts GmbH
Gewerbestr. 17
D-35633 Lahnau

+49 6441 67 92 99-0
+49 6441 67 92 99-99

info@itcworld.com
www.itcworld.com

CE   IP53