iRis DVR X
Videoscope

APPLICATIONS

ENGINEERING & MANUFACTURING
The iRis DVR X allows engineers to check for blockages and general condition thus minimizing downtime and optimizing planned maintenance. Examine drains, sewer pipes, pumps, gearboxes, compressors, boilers, heat exchangers, headers, valves and HVAC ducts.

ELECTRIC POWER GENERATION
Both fossil and nuclear power plants use iRis DVR X Videoscopes to inspect vital equipment such as turbines, pipelines, condenser tubes, pumps, boilers, heat exchangers, valves, pressure vessels and many other items of plant.

AUTOMOTIVE
The iRis DVR X is perfect for automotive inspections. See inside engines, transmissions, between panels and other difficult to see areas The small 4.0 and 6.0mm (.155 and .236in) probes easily fit in tight spaces where other automotive borescopes will not go.

SECURITY
The iRis DVR X is used effectively for bomb disposal (EOD / IEDD), counter terrorist activities, Hostage situations, smuggling of drugs, illegal aliens and other contraband. The portable and simple design is perfect for the search of buildings, vehicles, ships, aircraft, freight and difficult to access areas.

FEATURES

- Digital Zoom
- Video Recording
- Stilling Capture
- Removable 32GB SD Card
- Text Annotation
- Water Proof
- 6 Hour Battery Power
- Adjustable 360 Rotating LCD
- Powerful LED Illumination

ACCESSORIES

- Support Arm
- Rigid Guide Tube
- SD Card
- Spare Battery

PRIMARY FEATURES

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

6 HOUR BATTERY OPERATING TIME
Rechargeable high-capacity battery extends uninterrupted 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.

360° ERGONOMIC DESIGN
The iRis DVR X is the world’s first portable videoscope with a 360° rotating LCD. This allows you to comfortably position the LCD.

AFFORDABLE
The iRis DVR X is the most affordable industrial grade videoscope on the market. Fully featured, portable and an intelligent design make for an excellent value.

AVAILABLE DIAMETER

4mm | 0.155in
6mm | .236in

AVAILABLE LENGTH

1.0 to 7.5M
3.3 to 24.6Ft
### iRis DVR X Specifications

#### OPERATING UNIT
- **Display size**: 5.0" (12.7cm) TFT color
- **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. 6 Hour Operating Time
- **Power supply, secondary**: 12V adapter (optional accessory)

#### 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
- **Color**: 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
- **Color temperature**: 6500k
- **Average lamp lifetime**: 5000h

#### PROBE
- **Diameter**: 4.0mm and 6.0mm
- **Working length**: 4.0mm = 4.9 - 13.1ft (1.5 - 4.0m), 6.0mm= 4.9 -13.1ft (1.5 - 7.5m)
- **Articulation**: 4-way / 360° control 4-way / 360° control
- **Articulation angle**: L/R | U/D: 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 (2.9 Lb)
- **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 H2O)
- **Resistance**: Probe and distal end to oils and saline
- **Carrying Case**: 508mm x 373mm x 147mm / 4.5kg