iRis DVR 5
Video Borescope

APPLICATIONS

AEROSPACE
The iRis DVR 5 is perfect to inspect turbines, combustion chambers, low-pressure compressors, high-pressure compressors, aircraft wings, structure, brakes, and locate foreign object damage (FOD).

WIND POWER
Inspect turbines and gearboxes. The exceptional portability and tough design of the iRis DVR saves inspectors time and money by keeping turbines running. Cordless operation with interchangeable two-hour batteries allows time for any inspection.

POWER GENERATION
Both fossil and nuclear power plants can inspect vital equipment such as turbines, pipelines, condenser tubes, pumps, boilers, heat exchangers, valves, pressure vessels and other critical plant systems.

SECURITY
The iRis DVR 5 is perfect for use in bomb disposal (EOD / IEDD); counter terrorist activities, hostage situations, drug interdiction, illegal alien searches and other contraband. Search of buildings, aircraft, vehicles, ships, freight, and difficult to access areas are typical applications.

PRIMARY FEATURES

HAND HELD OPERATION
The iRis DVR 5 combines cordless operation with a host of features found in bulkier and more expensive systems. Unlike other video borescopes, the iRis DVR 5 puts everything in your hand.

4-WAY ARTICULATION
The iRis DVR 5 offers full articulation in all directions in models up to 25 ft. (7.5 Meters). This allows precise positioning of the video borescope tip to provide the best possible view of the inspection area.

AFFORDABLE
The iRis DVR 5 is the most affordable industrial grade hand held video borescope inspection system available. Spend half as much for the same image.

DIGITAL VIDEO RECORDING
Record Full digital video or capture brilliant still images with the touch of a button. Easily add text and document entire inspections for later review and reporting.

BRILLIANT 5" LCD
Easy to see high resolution and high contrast VGA LCD provides perfect image quality. All function keys are intuitive and easy to find even for first time users to reduce inspection time.

FEATURES

- 4-Way Articulation
- Digital Zoom
- AC and DC Power
- Water Proof
- Video Recording
- Still Image Capture
- SD Card Storage
- Text Annotation
- Interchangeable Tips
- Side View Capable

ACCESSORIES

- Centering Devices
- Selection of Tip Objectives
- Side View Tip Adapters
- Rigid Guide Tubes
- Mounting Arm

AVAILABLE DIAMETER

4mm | 0.157in  5mm | .197in  6mm | .236in  8mm | .315in

AVAILABLE LENGTH

1.5 to 7.5 M  4.9 to 24.6 Ft
iRis DVR 5 Videoscope Specifications

**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)
- 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: High resolution Super HAD CCD image sensor
- White balance: Factory default or user defined
- AGC level (gain control): Adjustable
- Gamma: Adjustable
- Image control: Built-in full screen text overlay generator
- Zoom: X 3.5
- Invert: Horizontal and vertical image inversion
- Brightness: Adjustable
- Contrast: Adjustable
- Colour: Adjustable

**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 fi beroptics
- 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 - 13.7ft (1.5 - 4.0m) 4.9 - 13.7ft (1.5 - 7.5m) 4.9 - 13.7ft (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 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 H2O)
- Resistance: Probe and distal end to oils and saline (5%)
- Carrying Case: 508mm x 373mm x 147mm / 4.5kg

**INTERCHANGABLE OBJECTIVE LENSES & SVTA**

<table>
<thead>
<tr>
<th>Probe</th>
<th>DOV</th>
<th>FOV</th>
<th>DOF</th>
<th>CODE</th>
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<tbody>
<tr>
<td>4,0mm</td>
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<td>60°</td>
<td>7-50mm</td>
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<tr>
<td>4,0mm**</td>
<td>90°</td>
<td>60°</td>
<td>5-40mm</td>
<td>SVTA</td>
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<td>5-40mm</td>
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<td>90°</td>
<td>5-40mm</td>
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<td>60°</td>
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<td>28°</td>
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<td>8mm-∞</td>
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<td>90°</td>
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<td>5mm-∞</td>
<td>SVTA</td>
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DOV = Direction of view  CF = close Focus  FOV = Field of view  FF = far Focus  DOF = Depth of focus  B = Bright objective lens  SVTA = Side view tip adapter  ** Compatible with FOV 60°

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