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.

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

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.

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)

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 defi ned
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

	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 (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 H2O)
Resistance:	Probe and distal end to oils and saline (5%)
Carrying Case:	508mm x 373mm x 147mm / 4,5kg

INTERCHANGABLE OBJECTIVE LENSES & SVTA

Probe	DOV	FOV	DOF	CODE
4,0mm	0°	60°	7-50mm	
4,0mm	0°	90° 1	5mm-∞	
4,0mm**	90°	60°	5-45mm	SVTA
6,0mm	0°	60°	5mm-∞	BLACK
6,0mm	0°	90°	5mm-∞	RED
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   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 FOV60 °

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

INSPECTION IMAGES