



I.I.S.

Mentor IQ Borescope



Probe Measurements

Diameter:

4mm: 6.6, 9.8'

6.1mm: 6.6, 9.8, 14.8,
19.7, 32.8"

The Mentor Visual IQ is the most advanced video borescope, is packed with features to help you make better decisions about critical assets and improve inspection productivity.

- Easy to operate using either optically bonded multipoint touchscreen and on-screen keyboard, or ergonomic joystick and hard keys
- Color SUPER HAD CCD Video camera with 5x digital zoom and a new ground-up image processing system.
- View crisp images and increase probability of detection on a 6.5" (16.5cm) active matrix XGA Color LCD, daylight readable display.
- Capture crystal clear live video and still images with Adaptive Noise Reduction (ANR) and High Dynamic Range (HDR) still image capture
- Advanced Analysis using improved 3D Phase Measurement using improved 3D Phase Measurement
- Portable, lightweight, ergonomic design
- Dual-Band Wi-Fi and Bluetooth 4.0 enabled

Innovative Industrial Solutions, Inc.

2830 Skyline Drive Russellville, AR 72802

Phone (479) 968-4266

Fax (479) 890-9072

www.i-i-s.net

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Operating Temperature

Tip	-13°F to 212°F. Reduced Articulation below 32°F
System	-4°F to 115°F. LCD may require warm-up period below 32°F
Storage Temp	-13°F to 140°F
Relative Humidity	95% max, non-condensing
Waterproof	Insertion Tube and tip to 14.7 psi(1 bar, 10.2m od H2O, 33.5' of H2O)

Camera

Diameter Probe	4.0 mm (0.16"), 6.1 mm (0.24")
Image Sensor	1/6" (6.1mm) Color Super HAD™ CCD camera 1/10" (4.0mm)
Pixel Count	440,000 pixels
Housing	Titanium

System

System Dimensions	6.75 x 8 x 15"
Case Dimensions	19.2 x 15.2 x 7.3"
System Weight	In Small case w/contents: 22.4lbs, In Large w/contents: 43.2, Out of Case: 6120 System: 6.7lbs, 6110 System: 8.7lbs.
Construction	Magnesium and polycarbonate housing w/ integrated elastomeric bumpers
LCD Monitor	Integrated 6.5" active matrix XGA Color LCD, daylight readable display, with optically bonded, multipoint capacitive Dragontrail™ touchscreen
Joystick Control	360° All-Way® tip articulation, menu access, and navigation
Button Set	Access user functions, measurement, and digital functions
Audio	Integrated 3.5mm headset/microphone jack or Bluetooth headset
Internal Memory	16GB SSD for user storage
Data I/O Ports	Two USB 3.0 host 'A' ports, one USB 3.0 client micro "B" port
Video Out	Display Port
Brightness Control	Auot and Variable
Illumination Type	White LED
Long Exposure	Auot- up to 16 seconds
White Balance	Factory default or user defined

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Power

Lithium Ion Battery	10.8V (nominal), 73Wh, 6.8Ah
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Power Supply

AC	100-240VAC, 50-60Hz, <1.5A RMS
DC	18V, 3.34A

Standard Compliance and Classifications

MIL-STD-810G	U.S. Department of Defense Environment Tests Solutions: 506.5, 507.5, 510.5, 511.5, 514.6, 516.6, 521.3
MIL-STD-461F	U.S. Department of Defense - Electromagnetic Interference RS103-ABOVE DECK
Standards Compliance	Group 1, Class A: EN61326-1, UL, IEC, EN CSA-C22.2:61010-1, UN/DOT T1-T8
IP Rating	IP65 (Disassembled)

Software

Operating System	Embedded multi-tasking operating system
User Interface	Menu-driven and soft button operation; menu navigation using either touchscreen or joystick
File Manager	Embedded file manager supports the following operation files and folders: copy, cut, create, delete, filter and sort. USB and internal flash storage
Audio Data	PC Compatible ACC (.M4A file) format
Image Control	Invert, Inverse+, Adaptive Noise Reduction, Distortion Correction, Illumination, Brightness, Long Exposure, Single View, Single View, Zoom (5x digital), Image Capture and Recall
Digital Zoom	Continuous (5x)
Image Formats	Bitmap (.BMP), JPED (.JPG)
Video Format	MPEG4 AVC/H.264 (.MP4 file)
Text Annotation	Built-in full-screen text overlay generator
Graphic Annotation	User placement of arrows
Articulation Control	User-selectable steer vs. steer & stay articulation; tip "home" return to neutral forward-tip orientation
Software Updates	Field Upgradeable via USB ThumbDrive®
Languages	English, Spanish, French, German, Italian, Russian, Japanese, Korean, Portuguese, Chinese, Polish, Hungarian, Finnish, and Swedish
Application Software	Menu Directed Inspection (MDI) software digitally guides inspectors through the inspection process, intelligently names files and creates MS Word® and PDF compatible inspection reports