



Everest Mentor Flex+ VideoProbe™

One System. Every Inspection.



Everything you need for inspections all-in-one.

Better quality. Better results.
No sacrifice to speed.

You bring your best because every inspection demands it. Whether inspecting different assets or different areas, QuickChange probes provide the versatility you need, and the Mentor Flex+ delivers the experience you want. With Real3D measurement and best-in-class image quality, you get more accurate results in less time without compromising quality.

The Everest Mentor Flex+ works how you expect it to and lets you work smarter without carrying extra equipment around. That means increased efficiency, faster results, and top-notch data quality that earns your confidence every step of the way.



Your next step to better inspections.



With Everest Mentor Flex+, you don't leave anything to chance. Start with versatile QuickChange probes and interchangeable optical tips. Add confidence with class-leading image quality and Real3D measurement. Finish with streamlined data management through Menu Directed Inspection and automatic InspectionWorks cloud backup.



More probes, more possibilities

Tackle any inspection with rugged equipment designed to keep you on task.

- **QuickChange interchangeable probes:** 4.0mm - and 6.1mm - diameter probes offers flexibility, while the 6.2mm working channel probe provides the most complete foreign object retrieval tool system in the industry.
- **Shortest camera head available on a 6.1mm probe:** Navigate inspections that require an extremely tight bend radius with ease and risk less damage to the probe.
- **Rugged MIL-STD design:** Built and tested to military standards for durability to last, job after job.



Efficiency through technology

Get data quickly and handle every inspection with confidence.

- **InspectionWorks Ready:** Menu Directed Inspection (MDI) provides guided inspection workflows and intelligently tags data, while Push2IW automatically saves data to the cloud for storage and automated reporting.
- **New gravity sensor:** The Always-Up gravity sensor displays a real-time Up-direction indicator for faster, more intuitive navigation. Enable Auto-Rotate mode to automatically keep the display correctly oriented—no manual adjustment required.
- **Reduced wait-time for engine cooling:** Get clear, amazing images at 100°C.





Unmatched accuracy

Never second-guess results. Readings from each inspection are delivered not just accurately, but consistently.

- **Industry-leading Real3D measurement capabilities:** Disposition defects confidently. With a fully surfaced point cloud, the Mentor Flex+ delivers the utmost accuracy for quantifying defects and confident decisions.
- **Automatic ANR (Adaptive Noise Reduction):** By removing image noise, inspectors get a clearer view of potential defects, boosting speed and probability of detection.
- **Class-leading image quality:** See what's ahead of you with advanced signal processing and light sensitivity that illuminates surfaces farther away.

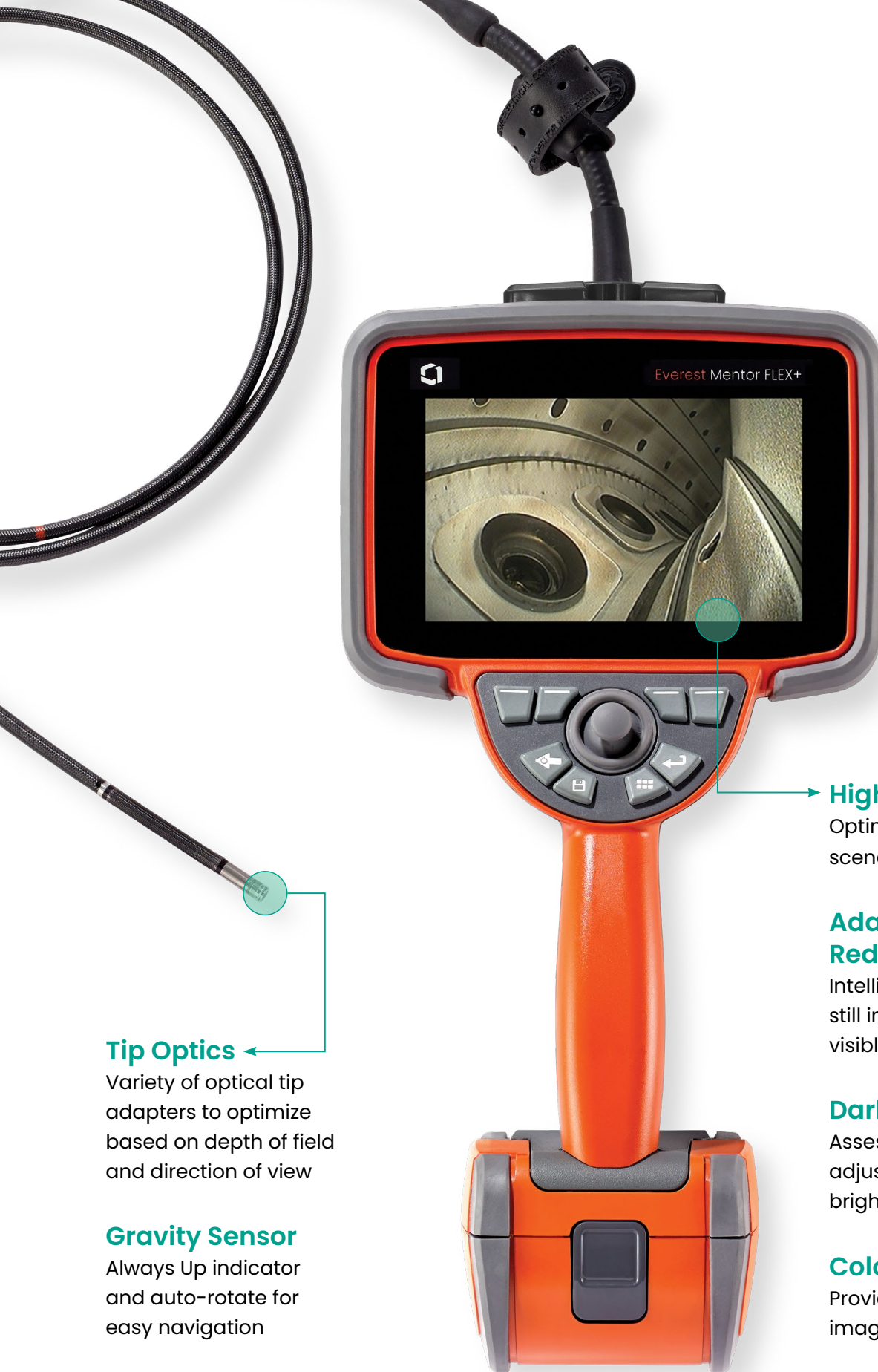


This is what visible confidence looks like.

The Everest Mentor Flex+ delivers cutting-edge TrueSight™ image clarity for more accurate assessments and increased probability of detection (POD). Expect high-quality, detailed images that showcase indications previously undetectable. See for yourself.

Subscribe to peace of mind.

Downtime is costly, but with flexible service offerings like our Flex subscription and Visual Care Plan, you'll have the coverage to keep the Everest Mentor Flex+ where you need it: in your hands. Because less downtime means more uptime.



Tip Optics

Variety of optical tip adapters to optimize based on depth of field and direction of view

Gravity Sensor

Always Up indicator and auto-rotate for easy navigation

High Temperature

Optimized image quality up to 100°C

High Dynamic Range

Optimize image quality in scenes with shiny surfaces

Adaptive Noise Reduction

Intelligently analyzes still images to reduce visible noise

Dark Boost

Assesses the scene and adjusts level to digitally brighten darker areas

Color Saturation

Provides high-quality images with vivid hues

Distortion Correction

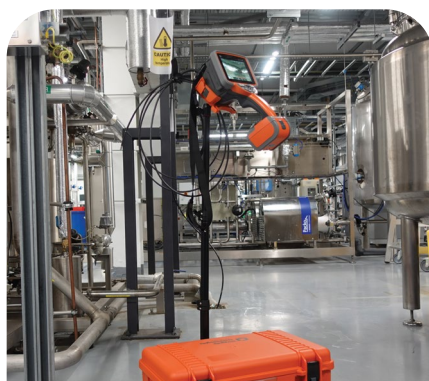
Enables wide field-of-view optics without the distortion

Get the most out of your inspection.

With these add-ons, you can maximize versatility and productivity while minimizing the total cost of ownership for your Everest Mentor Flex+ device. No matter the application, the Everest Mentor Flex+ can accommodate a wide variety of cases, including hands-free use, improving ergonomics, and making everything that much simpler.



LANYARD



TELESCOPING POLE



HOOK



MAGIC ARM



STRAP



KICKSTAND

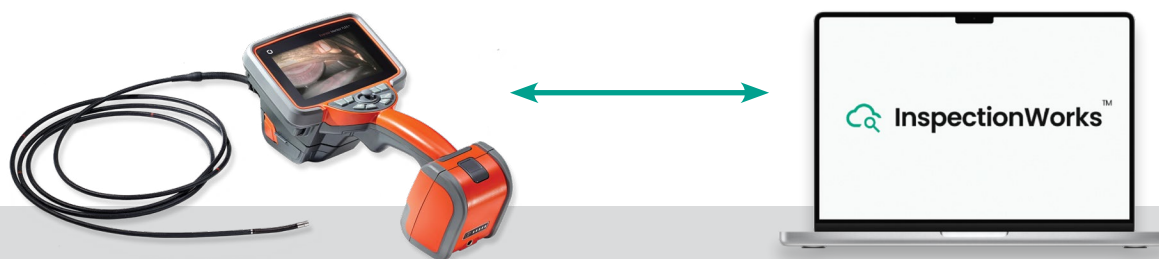
Accessories you can count on.

We understand performing a video borescope inspection requires a skilled technician putting in long hours in sometimes challenging environments. Deploying the proper accessory for the job can ensure inspections are performed properly, ergonomically, and efficiently.

[Click here](#) to explore the Accessories Guide to learn more about optical tips, carry case, mounting tools, protective guidetubes, and more.

Transform your Industrial Inspections with InspectionWorks

InspectionWorks is a nondestructive testing (NDT) software platform designed to simplify and standardize industrial inspections, without sacrificing quality. It streamlines inspection processes, standardizes reports, improves collaboration across key stakeholders, and much more.



Standardize your Inspections

Achieve consistent, repeatable quality of inspection with Menu Directed Inspections (MDIs), overlays, and more.

Collaborate with Key Stakeholders

Collect data at every inspection of your asset. Share inspection data securely not only with your direct team, but also between OEMs, operators, and service providers.

Digitize your Inspection Process

Data gathered from your borescope can automatically populate InspectionsWorks. Then, generate reports with the click of a button.

Centralize your Inspection Data

Bring all your inspection data into one unified platform. View detailed inspection history and monitor defect progression to make more informed decisions.

How it Works



Start with an MDI

Create a Menu Directed Inspection (MDI) to templize your inspection process and launch it on your borescope.



Capture & Analyze Data

Gather data and analyze with Real3D Measurement. Automatically upload with Push2IW.



Store, Search, Measure & Share

All your inspection data is at your fingertips. Collaborate and share with key stakeholders.



Report

Automatically generate reports based on your MDI. Share reports between OEMs, service providers & operators.

Technical Specifications

Operating Temperature

Tip	-25°C to 100°C (-13°F to 212°F). Reduced articulation below 0°C (32°F)
System	-25° to 46°C (-13°F to 115°F). LCD may require warm-up period below 0°C (32°F).
Storage Temperature	-25° to 60°C (-13°F to 140°F)
Relative Humidity	95% max, non-condensing
Waterproof	Insertion tube and tip to 14.7 psi (1 bar, 10.2 m of H ₂ O, 33.5 ft of H ₂ O)

Camera

Diameter Probe	4.0 mm (0.157"), 6.1 mm (0.240"), 6.2 mm (0.244")
Frames Per Second	60 fps
Housing	Titanium

System

System Dimensions	L: 32 cm x W: 18 cm x H: 10 cm (12.5" x 7.2" x 3.9")
Case Dimensions	Dual-Probe 61.8 cm x 52.7 cm x 28 cm (24.3" x 20.8" x 11") Carry-on (Small, standard) 35.0 cm x 54.5 cm x 23.0 cm (13.78" x 21.46" x 9.05")
System Weight	Handset alone - 1.6kg (3.5lbs), Handset with 6.1mm x 2.0 probe - 2.6kg (5.7lbs), Handset with 6.1mm x 2.0m probe and battery - 3.2kg (7.0lbs) Total weight in case 10.6kg (23.30lbs)
Construction	Magnesium, aluminum, and Polycarbonate housing with integrated elastomeric bumpers
Data I/O Ports	(2) USB 2.0 hosts 'A' ports, (1) USB-C port
Video Out	HDMI, USB-C (DisplayPort Alt-Mode) 1080p, 60Hz
Long Exposure	Auto - up to 1.5 seconds
Wireless Communication	Integrated Wi-Fi supporting 2.4Ghz and 5Ghz ISM channels. IEEE 802.11 A, B, G, N, AC. WPA, WPA-PSK, WPA2, WPA2-PSK, and WEP (64 bit and 28bit)
LCD Monitor	Integrated (5.8") transmissive color TFT WXGA Advanced Wide View (AWV) LCD, daylight readable display with optically bonded, multipoint capacitive Gorilla® Glass touchscreen
Joystick Control	360° All-Way® tip articulation, menu access, and navigation
Button Set	Access user functions, measurement, and digital functions
Internal Memory	32 GB

Power

Power	Lithium Ion Battery ~3-hour run time, 10.8V (nominal), 74.5Wh, 6.9Ah
-------	--

Power Supply

AC	100-240VAC, 50-60Hz, <1.5A RMS
DC	18V, 3.34A
USB-C Power Delivery	60W PD Input: 20V/3A; 30W PD Output: 5V/3A, 9V/3A, 15V/2A, 20V/1.5A

Standard Compliance and Classifications

MIL-STD-810H	MIL-STD-810H - United States Department of Defense Environment Tests Sections 501.7, 502.7, 506.6, 507.6, 510.7, 511.7, 514.8, 516.8, 521.4
MIL-STD-461G	United States Department of Defense - Electromagnetic Interference RE102. 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 (Assembled)

Software

File Manager	Embedded file manager supports the following operation on files and folders: copy, create, and delete. USB and internal flash storage.
Image Control	Invert, Inverse+ (freeze frame only), Distortion Correction, Dark Boost, High Dynamic Range (HDR), Color Saturation, Illumination, Long Exposure, Single View, Zoom (5x digital), Image Capture and Recall, Brightness, Adaptive Noise Reduction (freeze frame only), Long Exposure, Image Rotate, Autorotate, Always Up, White Balance.
Software Updates	Wireless over the air or field upgradeable via USB thumbdrive. Wireless over the air feature updates
Inspection Works Connect Local	Wired or wireless video streaming and file transfer to iOS or Android device
Languages	English, Simplified and Traditional Chinese, Czech, Dutch, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese(Brazil), Russian, Spanish and Swedish, Turkish.

Probe Measurements

Diameter	Length
4.0 mm (0.16")	2.0, 3.0 m (6.6, 9.8 ft.)
6.1 mm (0.24")	2.0, 3.0, 3.5, 4.5, 6.0, 8.0 m (6.6, 9.8, 11.5, 14.8, 19.7, 26.2 ft.)
6.2 mm (0.24")	3.5 m (12.8 ft)

Tip Articulation

Insertion Tube Length	Articulation
2 m - 4.5 m	Up/Down 160° min, Left/Right 160° min
6 m - 10 m	Up/Down 140° min, Left/Right 140° min

Note: Typical articulation exceeds minimum specifications.

Gravity Detection

Tri-Axial Accelerometer	4.0 mm, 6.1 mm, 6.2 mm
-------------------------	------------------------

Probes and Tips

Mentor Flex+ 4.0 mm Tips

Part No.	Color	FOV (deg)	DOF (mm)	DOF (in)
Forward View				
T4080FF*	None	80	35-inf	1.38-inf
T40115FN	Black	115	4-inf	.16-inf
Side View				
T40115SN	Red	115	1-30	.04-1.18
T40120SF	Blue	120	6-inf	.24 - inf
Stereo Measurement				
TM405555FG	Black	55/55-FWD	5-inf	.20-inf
TM405555SG	Blue	55/55-SIDE	4 -inf	.16-inf

Mentor Flex+ 6.1 mm Tips

Part No.	Color	FOV (deg)	DOF (mm)	DOF (in)
Forward View				
T6150FF	None	50	50-inf	2.36-inf
XLG3T6150FG	White	50	12-200	.47-7.87
XLG3T61120FG	Black	120	5-120	.20-4.72
T61120FF	Gray	120	20-inf	.79-inf
XLG3T6180FN	Orange	80	3-20	.12-.79
XLG3T6190FF	Yellow	90	20-inf	.79-inf
XLG3T6150FB	Purple	50 (45 DOV)	12-80	.47-3.15
T6165FF*	Orange/Blue	65	65-inf	2.56-inf

Side View

XLG3T6150SF	Brown	50	45-inf	1.77-inf
XLG3T6150SG	Green	50	9-160	(.35-6.30)
XLG3T61120SG	Blue	120	4-100	(.16-3.94)
XLG3T6180SN	Red	80	1-20	(.04-.79)

Stereo Measurement

XLG3TM616060FG	Black	60/60-FWD	4-80	(.16-3.15)
XLG3TM615050SG	Blue	50/50-SIDE	2-50	(.08-1.97)

Mentor Flex+ 6.2 mm Tips

Part No.	Color	FOV (deg)	DOF (mm)	DOF (in)
Forward View				
T62050FF	None	80	35-inf	(1.4-inf)
T62120FN	Black	120	2-200	(.08-7.87)
T62120FF	Yellow	120	15-inf	(0.59-inf)

Side View

T6280SF	Green	80	15-inf	(.59-inf)
T62120SN	Blue	120	6-inf	(.24-inf)

Stereo Measurement

TM626060FN	Black	60/60-FWD	2-200	(.08-7.87)
TM626060SN	Blue	60/60-SIDE	2-200	(.08-7.87)

*Indicates tip with maximum brightness. Zoom levels beyond 0.8x can introduce visual anomalies at outer portions of the image.

Field of view specifications are based on a 0.8x zoom level.

See Mentor Flex+ in action.

Good enough doesn't cut it. Everest Mentor Flex+ won't just meet your expectations; it beats them. Faster, more accurate, and even higher image quality. Every enhancement is made to save time on the job and make inspections easier to handle than before.

See for yourself by contacting your sales representative for a demonstration.

