

Everest Mentor Flex VideoProbe™

**Faster. More Accurate.  
Better.**



# Streamlined to simplify the complex.

## It's that simple.

As the worldwide leader in remote visual inspection (RVI) and video borescope technology, our intention has always been to empower inspectors to solve the complex with effortless simplicity.

With mounting demand to get inspections done quicker and cheaper, without compromising the accuracy of the results, most equipment can't withstand the pressure. Combining portability with military-grade durability, the Everest Mentor Flex answers the call with the features you've always wished you'd had, for the tasks that demand it — all to help you make smart decisions, fast.

## Raise the bar with an unrivaled digital inspection.

More precise and efficient everyday inspections are now possible with Waygate Technologies' Everest Mentor Flex VideoProbe™. And when you've got great image quality to easily identify defects and tools that eliminate the hassle, inspections become faster than ever before.



### Intuitive innovation

Save time, improve quality, and streamline the decision-making process at every level.

- **Virtual keyboard** for faster annotation.
- **Multi-point touchscreen** allows pinch-to-zoom and swipe-and-pan gesture functionality.
- **Menu Directed Inspection (MDI)** improves efficiency with **auto-tagging** and **automatic report generation**.



### Maximized measurement

Meet measurement requirements with quality and evaluate defects in depth.

- **Stereo measurement** provides accurate analysis as you work.
- **Comparison measurement** checks the approximate size of defects quickly.



### Precise articulation

Navigate inspections thoroughly, and accurately, at a fraction of the time and cost.

- **Responsive and powerful articulation.**
- **Upgraded articulation design** founded on high-power steering motors.



### Rugged mobility

Expect top performance in even the harshest environmental conditions.

- Light, **portable**, and ergonomic design.
- Constructed with **ultra-durable, military-grade magnesium housings**.
- **Third-party tested.**

# 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 showcasing indications that were 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.

**DISPLAY RESOLUTION**  
WXGA

**DARK BOOST**  
Assesses the content of scenes and intelligently adjusts levels to digitally brighten darker areas

**COLOR SATURATION**  
Provides high-quality images with vivid hues

**DISTORTION CORRECTION**  
Enables wide field-of-view optics without the distortions

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

**LIGHT OUTPUT**  
Best-in-class white light LED

**CAMERA RESOLUTION**  
440k-pixel image resolution



# Prepare for a more predictable future.

Powered by InspectionWorks and dual-band Wi-Fi to make inspections consistent and efficient, the Everest Mentor Flex VideoProbe™ supports wireless file transfers and video streaming to iOS devices, resulting in improved efficiency and flexibility on the job. And no matter what the future holds, easy wireless upgrades and planned software releases guarantee you'll be equipped for what's in store.



## Get the most out of your inspection.

With these add-ons, you can maximize versatility and productivity while minimizing 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.



## Technical specifications: Handset

| 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 H2O, 33.5 ft of H2O)       |

| Camera         |   |
|----------------|---|
| Diameter Probe | 3.9 mm (0.15"), 4.0 mm (0.16"), 6.1 mm (0.24"), 8.4 mm (0.33")          |
| Image Sensor   | 1/6" Color SUPER HAD™ CCD camera (6.1 mm, 8.4 mm) 1/10" (3.9mm, 4.0 mm) |
| Pixel Count    | 440,000 pixels  |
| Housing        | Titanium  |

| System             |   |
|--------------------|---|
| System Dimensions  | 13.7 cm x 19.7 cm x 38.1 cm (5.4" x 7.2" x 15")   |
| Case Dimensions    | Small case 35.0 x 54.5 x 23.0 cm (13.78" x 21.46" x 9.05")<br>Large case 57.2 x 56.3 x 41.2 cm (22.52" x 22.16" x 16.22")   |
| System Weight      | In small case with contents: 10.2 kg (22.4 lbs)<br>Out of Case: system - 2.50 kg (5.5 lbs)  |
| Construction       | Magnesium and polycarbonate housing with integrated elastomeric bumpers   |
| 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   |
| Data I/O Ports     | Two USB 2.0 host "A" ports  |
| Video Out          | HDMI  |
| Brightness Control | Auto and Variable   |
| Illumination Type  | White LED   |
| Long Exposure      | Auto - up to 16 seconds   |
| White Balance      | Factory default or user defined   |
| Wi-Fi Adapter      | 802.11a/b/g/n, 2x2 A WLAN   |
| Modulations        | DSSS, OFDM  |

| Power Supply        |   |
|---------------------|---|
| Lithium Ion Battery | 3-hour runtime, 10.8 V (nominal), 73Wh, 6.8Ah |

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

| Standards Compliance and Classifications |   |
|--|---|
| MIL-STD-810H                             | United States Department of Defense Environment Tests Sections 501.7, 502.7, 506.6, 507.6, 509.7, 510.7, 511.7, 514.8, 516.8, 521.4 |
| MIL-STD-461G                             | U.S. Department of Defense - Electromagnetic Interference RS103, 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  |

| Software                      |   |
|-------------------------------|---|
| Operating System              | Embedded, multi-tasking operating system  |
| User Interface                | Menu-driven and soft button operation; menu navigation using either touch screen or joystick  |
| File Manager                  | Embedded file manager supports the following operation on files and folders: copy, paste, create, and delete. USB and internal flash storage  |
| Image Control                 | Brightness, invert, inverse+, distortion correction, dark boost, color saturation, illumination, long exposure, exposure lock, single view, zoom (5x digital), image capture and recall   |
| Digital Zoom                  | Continuous (5x)   |
| Image Formats                 | JPEG (.JPG)   |
| Video Format                  | MPEG4 AVC /H.264 (.MP4)   |
| Video Recording               | Frame rate: 60 fps  |
| Text Annotation               | Built-in full-screen text overlay generator   |
| Graphic Annotation            | User placement of arrows  |
| Articulation Control          | User-selectable steer vs. Steer-and-stay articulation; tip "Home" return to neutral forward-tip orientation   |
| Software Updates              | Wireless over the air or field upgradeable via USB thumb drive  |
| InspectionWorks Connect Local | Wired or wireless file transfer and video streaming to iPad or iPhone   |
| Languages                     | English, Arabic, Chinese, Czech, Dutch, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Spanish, Swedish, Turkish, Taiwanese   |
| 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.<br><br>Inspection Manager software enables viewing, annotation, and re-measurement of images on a PC. |

## Technical specifications: Probes and tips

| Probe Measurements   |  |
|--|--|
| Diameter   | Length   |
| 3.9 mm (0.15") or 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.)  |
| 8.4 mm (0.33")   | 2.0, 3.0, 4.5, 6.0, 8.0, 10.0 m (6.6, 9.8, 14.8, 19.7, 26.2, 32.8 ft.) |
| Longer lengths up to 30m are available. Contact your sales representative for details. |  |

| 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.

## Tips specifications

| 3.9 mm Tips        |        |            |          |          |
|--------------------|--------|------------|----------|----------|
| Part No.           | Color  | FOV (deg)  | DOF (mm) | DOF (in) |
| Forward View       |        |            |          |          |
| PXT480FG*          | None   | 80         | 6-80     | .24-3.15 |
| PXT490FN           | Orange | 90         | 3-40     | .12-1.57 |
| Side View          |        |            |          |          |
| PXT480SG*          | Brown  | 80         | 4-80     | .16-3.15 |
| PXT490SN           | Red    | 90         | 2-16     | .08-.63  |
| Stereo Measurement |        |            |          |          |
| PXTM45050FG*       | Black  | 50/50-FWD  | 5-45     | .20-1.77 |
| PXTM45050SG*       | Blue   | 50/50-SIDE | 4-45     | .16-1.77 |

| 4.0 mm Tips        |       |            |          |           |
|--------------------|-------|------------|----------|-----------|
| Part No.           | Color | FOV (deg)  | DOF (mm) | DOF (in)  |
| Forward View       |       |            |          |           |
| T4080FF*           | None  | 80         | 35-inf   | 1.38-inf  |
| T4080FF            | 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   |

| 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          | 6-160    | .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 |

| 8.4 mm Tips        |             |            |          |            |
|--------------------|-------------|------------|----------|------------|
| Part No.           | Color       | FOV (deg)  | DOF (mm) | DOF (in)   |
| Forward View       |             |            |          |            |
| XLG3T8440FF*       | None        | 40         | 250-inf  | 9.84-inf   |
| XLG3T8480FG        | Yellow      | 80         | 25-500   | .98-19.70  |
| XLG3T84120FN       | Black       | 120        | 5-200    | .20-7.87   |
| T84120FF           | Orange/Blue | 120        | 20-inf   | .79-inf    |
| XLG3T8440FG        | White       | 40         | 80-500   | 3.15-19.70 |
| Side View          |             |            |          |            |
| XLG3T8440SF*       | Brown       | 40         | 240-inf  | 9.84-inf   |
| XLG3T8480SG        | Green       | 80         | 25-500   | .98-19.70  |
| XLG3T84120SN       | Blue        | 120        | 4-200    | .16-7.87   |
| Stereo Measurement |             |            |          |            |
| XLG3TM846060FG     | Black       | 60/60-FWD  | 4-50     | .16-1.97   |
| XLG3TM846060SG     | Blue        | 60/60-SIDE | 4-50     | .16-1.97   |

\*Indicates tip with maximum brightness



# The answer is simple.

When time is critical and inspections need to be precise, your choice in borescope matters. But when the price-competitive Everest Mentor Flex delivers the same level of confidence you've come to expect from Waygate Technologies — all while future-proofing your inspections — the answer is simple.

See how Waygate Technologies is revolutionizing the digital inspection landscape. Contact your sales representative for a demonstration.

[waygate-tech.com/everestmentorflex](https://waygate-tech.com/everestmentorflex)

