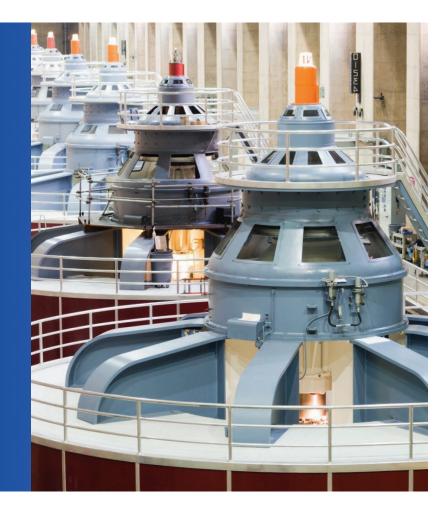




One System that **Evolves with You**

Designed to simplify today's inspections and seamlessly scale for tomorrow's challenges, IPLEX One features software performance tiers all based on the same hardware—upgrades can be easily done via IPLEX One software, allowing you to evolve your system without the need for hardware upgrades.



IPLEX One is a unified, scalable ecosystem that consolidates software, insertion tubes, and optical tip adapters into a shared platform. Reduce redundancy, improve inspection efficiency, and streamline inventory management across your entire organization.

Flexible, Software-Driven Scalability

Start with the features you need and unlock advanced capabilities like 3D modeling or measurement via modular software licensing—no hardware swap required.

Limitless Configurations = Smarter Investment

With a variety of optical tips and a flexible "buy what you need" model, IPLEX One delivers customization and future-readiness without overextending your budget.



Connected by Design

Compatible with ViSOL™ software and third-party applications, IPLEX One seamlessly integrates into digital workflows, enabling smarter data capture, reporting, and collaboration.



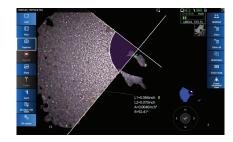
Accelerated Imaging, Analysis, and Measurement

IPLEX One is driven by industryfirst Swoptix multiview technology,

which allows you to instantly switch between near and far focus and direct and side view focus, with no need to withdraw the scope to change tip adapters—cutting down on inspection time and reducing wear on optical tips. With fewer retractions and faster evaluations, IPLEX One delivers up to twice the productivity with half the fatigue and wear of traditional RVI systems.

IPLEX One also offers monocular 3D modeling powered by exclusive 3DAssist™ software, which lets you create 3D images from a single optical path—no stereo tip required.





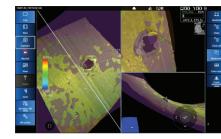
Single-Screen Measurement

With Swoptix 3D measurement, perform full-frame 4mm and 6mm measurements instantly, increasing speed and reducing interruptions to your inspection flow. Use a single full screen with a 120° view that allows you to easily find defects and conduct accurate, reliable measurements.



Instant Edge-to-Edge, Full-Screen Clarity

Real-time, high-resolution imaging across the entire display enables more accurate defect identification—and faster decision-making.



Split-Screen Viewing

Side-by-side visual comparisons and measurement overlays for deeper inspection insights— all within a single interface.

2

Built for How You Work



Designed for aviation, power generation, oil and gas, and security applications, IPLEX One delivers a clear view of inspection areas that are inaccessible to other NDT inspection methods. Ideal for bores, holes, pipes, cavities, and other challenging areas, IPLEX One is simple to use, offers bright inspection images in almost any lighting condition, and delivers the highest level of durability.

Smaller, Lighter, More Portable

IPLEX One is more compact than previous IPLEX models and features a brilliant 10-inch screen, making it easier to transport and use in tight or elevated environments.

Modular, Cable-Free Setup

With wireless remote operation and modular components, IPLEX One adjusts to preferred user configuration without any physical constraints.

Inspection-Grade Wireless

Ultra-low-latency peer-to-peer communication removes the need for tethered setups and enables more flexible workflows. Optional radio-disabled models for secure or classified environments.

Remote-Friendly Control

Wireless control unit allows you to operate the scope from a distance, reducing strain and improving ergonomics in complex setups.

Engineered for Extreme Weather

All-weather design withstands rain, snow, and extreme temperatures. AR-coated anti-reflection monitor with wide viewing angle allows operation under strong sunlight.



A Legacy of Rugged Reliability

Made to handle the job site—not just the spec sheet—IPLEX One absorbs impact, resists dirt and moisture, and performs through heavy vibration. It's also made for long shift use, with a lightweight compact footprint; a balanced, ergonomic design focused on portability; and a 10-inch anti-reflective touchscreen.

Engineered with real-world inspection in mind, IPLEX One delivers when and where it matters most—drop-tested to MIL-STD standards, IP65 rated for dust and water, and validated by third-party testing. From tarmacs to turbine decks, IPLEX One means performance you can trust—every shift, every day.

Reduced Wear and Tear

With a shorter distal end that enhances smooth insertion in tight areas, Swoptix technology reduces the risk of optical tips being stuck or damaged during inspection and reduces wear and tear on both optical tip adapters and the IPLEX One system as a whole.

Front Line-Ready

Across aerospace, energy, and security, IPLEX One delivers lasting reliability, long-term performance, and mission-critical confidence.

Global Service and Support

With a world-class service network behind every unit, IPLEX One comes with the training, maintenance, and expert help you need to stay mission-ready—no matter where or how you operate.



4

IPLEX One:

Mission-Critical Confidence

AEROSPACE

- Speed up routine and unscheduled inspections
- Reduce downtime and support regulatory compliance

POWER GENERATION

- Inspect boilers, turbines, and piping with confidence
- Count on durable performance in high-heat and high-vibration conditions

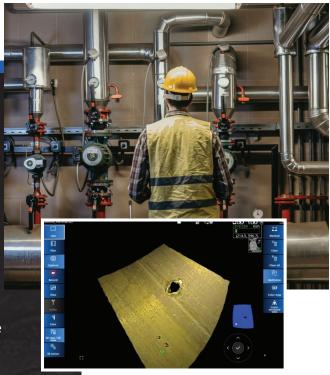
OIL & GAS

- Reach confined or remote assets with portable reliability
- Improve throughput and reduce rework

SECURITY

- Operate with or without wireless communication
- Perform inspections in secure, rugged environments









IPLEX™ One Videoscope Specifications

| SCOPE UNIT | | | | | | | | | | |
|-----------------------|------------------------------|--|--------------------------------|-------------------|---|--------------------|-------------------|-------------------|--------------------|--|
| Model No. | | IV10420 | IV10435 | IV10620 | IV10630 | IV10635 | IV10650 | IV10675 | IV106100 | |
| | Scope diameter | φ4.0mm | | φ6.0mm | | | | | | |
| Insertion tube | Scope length | 2.0m (6.56 ft) | 3.0m (9.84 ft) | 2.0m (6.56 ft) | 3.0m (9.84 ft) | 3.5m (11.48 ft) | 5.0m (16.4 ft) | 7.5m (24.6 ft) | 10.0m (32.8 ft) | |
| | Exterior | | High-durability tungsten braid | | | | | | | |
| | Tube flexibility | | l | Jniform stiffnes | Tapered Flex insertion tube with flexibility that gradually increases toward the distal end | | | | | |
| Out in a large to the | Field of view | Selectable by optical adaptor | | | | | | | | |
| Optical system | Direction of view | | | | | | | | | |
| Illumination | | Laser Diode, White LED, Ultra Violet LED (365nm), Infrared LED (950nm) | | | | | | | | |
| Aution lating and in | Articulation angle (all-way) | 150° 180° 150° | | | | | | | 130° | |
| Articulation section | Articulation operation | True Feel scope tip articulation with electronic power-assisted | | | | | | | | |

| | ı | | | | | | | | | |
|-----------------------------------|-------------------------|--|--|--|--|--|--|--|---|--|
| MAIN UNIT | | | | | | | | | | |
| Model No. | | | IV10000 | | | | | | | |
| Dimensions (W × H × D) | | | 305mm × 220mm × 154mm (12.0 in × 8.6 in × 6.0 in) (protruding parts not included) | | | | | | | |
| Weight (main unit) | | | | | 6.6kg (| 14.5 lb) | | | | |
| Approx. system weight | | When combined with IV10420: 7.78kg (17.1 lb) | When combined with IV10435: 7.84kg (17.2lb) | When combined with IV10620: 7.86kg (17.2 lb) | When combined with IV10630: 7.94kg (17.4 lb) | When combined with IV10635: 7.98kg (17.5 lb) | When combined with IV10650: 8.10kg (17.8 lb) | When combined with IV10675: 8.30kg (18.2 lb) | When combined with IV106100: 8.50kg (18.6 lb) | |
| LCD monitor | | 10.1- | 10.1-inch WUXGA (1920 × 1200), IPS, High contrast Hard surface and multi-touch interface (10 point), capacitive Daylight readable display (Optical bonding + AR coating) 1100 NIT-backlight | | | | | | | |
| Video output | | | | | Type A F | HDMI 2.0 | | | | |
| Headset (microphone in/audio out) | | | | Compatil | ole with Bluetoo | oth headset/mi | crophone | | | |
| Data I/O Ports | | | | | USB Type- | C Port × 3 | | | | |
| Power supply | | Li-ion battery for Base Unit: 10.8 V nominal, approx. 360-minute operating time Li-ion battery for Tablet: 10.8 V nominal, approx. 180-minute operating time 100 V to 240 V, 50/60 Hz (with supplied AC adaptor) | | | | | | | | |
| Recording media | Normal | Internal SSD (256 GB) or USB flash memory | | | | | | | | |
| | Zoom function | Digital seamless zoom (up to 5 times) | | | | | | | | |
| | Gain control | 7-step adjustable gain control | | | | | | | | |
| | Dynamic noise reduction | Available | | | | | | | | |
| | Brightness control | 16-step adjustable brightness control | | | | | | | | |
| Image adjustment | Sharpness control | | | 16- | step adjustable | sharpness con | trol | | | |
| image aujustment | Saturation control | | | 20- | step adjustable | saturation con | trol | | | |
| | Title text options | 51-character display | | | | | | | | |
| | Long exposure | Up to 10 seconds | | | | | | | | |
| | Image display functions | Live image can be inverted to right and left, inverted to up and down, and rotated 180 degrees | | | | | | | ees | |
| | Gravity indicator | C | isplay gravity in | ndicator accord | ing to the posit | ion of the scop | e's distal end (I' | V106 series onl | y) | |
| Still image recording | Resolution | H960 × V752 (pixels)* *When Print Screen is on, the resolution becomes H1280 × V800 *Resolution is varied depends on optical adapter | | | | | | | | |
| | Recording format | | | | JPEG (.JPG), | PNG (.PNG) | | | | |
| Vidoo rocordina | Resolution | | H960 × V752 (| (pixels)* *Whe | en Print Screen | is on, the resol | ution becomes | H1280 × V800 | | |
| Video recording | Recording format | | | | MPEG 4 AVC/H | .264 (.MP4 file) | | | | |
| Wi-Fi adapter | | | | | 2.4GHz (80 | 2.11b/g/n) | | | | |
| Bluetooth Adapter | | | | | Bluetoot | h 5.2 × 1 | | | | |

Optical Adaptor Specifications

| | | φ4.0mm Optical Adaptors | | | | | | | |
|----------------|-------------------|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| | | AT80D/FF-IV104 | AT120D/NF-IV104 | AT120D/FF-IV104 | AT120S/NF-IV104 | AT120S/FF-IV104 | AT80D/80D-IV104 | AT60S/60S-IV104 | |
| | Field of view | 80° | 120° | 120° | 120° | 120° | 80°/80° | 60°/60° | |
| Optical system | Direction of view | Forward | Forward | Forward | Side | Side | Forward | Side | |
| | Depth of field*1 | 52.9mm to inf | 4.4 to 107mm | 17mm to inf | 2.7 to 9mm | 10.3mm to inf | 4.7 to 66mm | 3.7 to 62mm | |
| District and | Outer diameter*2 | φ4.0mm | φ4.0mm | φ4.0mm | φ4.0mm | φ4.0mm | φ4.0mm | φ4.0mm | |
| Distal end | Distal end*3 | 20.9mm | 20.4mm | 20.5mm | 21.1mm | 21.1mm | 22.3mm | 24.7mm | |

| | | φ4.0mm Swoptix | 3D Measurement | φ4.0mm Swoptix Multiview | | | | |
|---------------------------|--|----------------|----------------|--------------------------|---------------|--------------|--------------|--|
| | AT100DDNF-IV104 AT80SSNF-IV104 AT110DN/F-IV104 | | I/F-IV104 | AT100D/S-IV104 | | | | |
| | Field of view | 100° | 80° | 110° | | 100° | | |
| Optical Direction of view | | Forward | Side | Forward | | Forward | Side | |
| -, | Depth of field*1 | 5.7 to 67mm | 4.7 to 63mm | 3.8 to 26mm | 17.3mm to inf | 7.5mm to inf | 6.5mm to inf | |
| . | Outer diameter*2 | φ4.0mm | φ4.0mm | φ4.0mm | | φ4.0 |)mm | |
| Distal end | Distal end*3 | 21.0mm | 23.2mm | 20.9mm | | 22.4mm | | |

| | | φ6.0mm Optical Adaptors | | | | | | | |
|----------------|-------------------|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| | | AT80D/FF-IV106 | AT120D/NF-IV106 | AT120D/FF-IV106 | AT120S/NF-IV106 | AT120S/FF-IV106 | AT90D/90D-IV106 | AT70S/70S-IV106 | |
| | Field of view | 80° | 120° | 120° | 120° | 120° | 90°/90° | 70°/70° | |
| Optical system | Direction of view | Forward | Forward | Forward | Side | Side | Forward | Side | |
| | Depth of field*1 | 23.4mm to inf | 6.1 to 267mm | 20.3mm to inf | 2.7 to 9mm | 10.3mm to inf | 5.6 to 208mm | 4.1 to 259mm | |
| District out | Outer diameter*2 | φ6.0mm | φ6.0mm | φ6.0mm | φ6.0mm | φ6.0mm | φ6.0mm | φ6.0mm | |
| Distal end | Distal end*3 | 20.8mm | 20.9mm | 20.5mm | 21.6mm | 21.6mm | 22.7mm | 26.7mm | |

| | φ6.0mm Swoptix 3D Measurement | | | φ6.0mm Swoptix Multiview | | | | | |
|----------------------------------|-------------------------------|-----------------|-----------------|--------------------------|---------------|---------------|--------------|-----|--|
| | | AT120DDNF-IV106 | AT100SSNF-IV106 | AT110DN | I/F-IV106 | AT100D | /S-IV106 | | |
| | Field of view | 120° | 100° | 110° | | 110° 100° | | 00° | |
| Optical system Direction of view | | Forward | Side | Forward | | Forward | Side | | |
| - | Depth of field*1 | 5.6 to 69mm | 5.0mm to inf | 3.8 to 25mm | 17.3mm to inf | 7.5mm to inf | 6.8mm to inf | | |
| | Outer diameter*2 | φ6.0mm | φ6.0mm | φ6.0mm | | φ6.0mm φ6.0mm | | 0mm | |
| Distal end | Distal end*3 | 21.6mm | 25.0mm | 20.6mm 22.3mm | | 3mm | | | |

- *1. Indicates the viewing distance with optimal focus.
 *2. The adaptor can be inserted into a ø4.0mm and ø6.0mm hole when it is mounted on the scope.
- *3. Indicates the length of the rigid portion at the scope's distal end when mounted.





Operating Environment

| Operating temperature | Insertion tube | In air: -25 °C to 100 °C (-13 °F to 212 °F) |
|-----------------------|----------------|---|
| | | In water: 10 °C to 30°C (50 °F to 86 °F) |
| | Tablet | In air: -21 °C to 49°C (-5.8 °F to 120.2 °F) (with Li-ion battery) |
| | | In air: 0 °C to 40 °C (32 °F to 104 °F) (with AC power adaptor) |
| | System | In air: -21 °C to 49°C (-5.8 °F to 120.2 °F) (with Li-ion battery) |
| | | In air: 0 °C to 40 °C (32 °F to 104 °F) (with AC power adaptor) |
| Relative humidity | All parts | 15 to 90% |
| Liquid resistance | All parts | Operable when exposed to machine oil, light oil, or 5% saline solution |
| Waterproofing | Insertion tube | Operable under water with viewing tip adaptor attached Not operable underwater with stereo measurement tip adaptors IV104 series: Up to an equivalent to 3.5m (11.6 ft) deep IV106 series: Up to an equivalent to 10.0m (33.0 ft) deep |
| | Other parts | IP65* *It does not apply when the protective covers on the system are open. |

MIL-STD Compliance

The operating environment performance is confirmed by the following MIL-STD-810H and MIL-STD-461G. No warranty is given as to damage-free under any conditions. Please ask Evident sales representative for details.

| Туре | Method |
|--|---|
| Low atmosphere | MIL-STD-810H, Method 500.6 Procedure I |
| High temperature | MIL-STD-810H, Method 501.7 Procedure I |
| Cold temperature | MIL-STD-810H, Method 502.7 Procedure I |
| Rain and Blowing rain | MIL-STD-810H, Method 506.6 Procedure I |
| Humidity | MIL-STD-810H, Method 507.6 |
| Salt Fog/Corrosive Environments | MIL-STD-810H, Method 509.8 |
| Blowing dust | MIL-STD-810H, Method 510.7 Procedure I |
| Explosive Atmosphere | MIL-STD-810H, Method 511.7 Procedure I |
| Vibration | MIL-STD-810H, Method 514.8 Procedure I |
| Shock | MIL-STD-810H, Method 516.8 Procedure IV |
| Icing/Freezing Rain | MIL-STD-810H, Method 521.4 |
| Conducted Susceptibility, Power Leads | MIL-STD-461G, CS101 (System) |
| Conducted Susceptibility, Bulk Cable Injection | MIL-STD-461G, CS114 (System) |
| Conducted Susceptibility, Bulk Cable Injection, Impuls | MIL-STD-461G, CS115 (System) |
| Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads | MIL-STD-461G, CS116 (System) |
| Conducted Susceptibility, Personnel Borne Electrostatic Discharge (ESD) | MIL-STD-461G, CS118 (System and Wireless Remote) |
| Radiated emission Magnetic Field | MIL-STD-461G, RE101 (System and Wireless Remote) |
| Radiated emission Electric Field | MIL-STD-461G, RE102 Above Deck (System and Wireless Remote) |
| Radiated susceptibility Magnetic Field | MIL-STD-461G, RS101 (System and Wireless Remote) |
| Electromagnetic Interference (EMI) | MIL-STD-461G, RS103 Above Deck (System and Wireless Remote) |

IPLEX[™] One Videoscope Solution

A Smarter, Faster Approach to Visual Inspection

Ready to unleash the power of one platform built for every inspector and every environment?





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