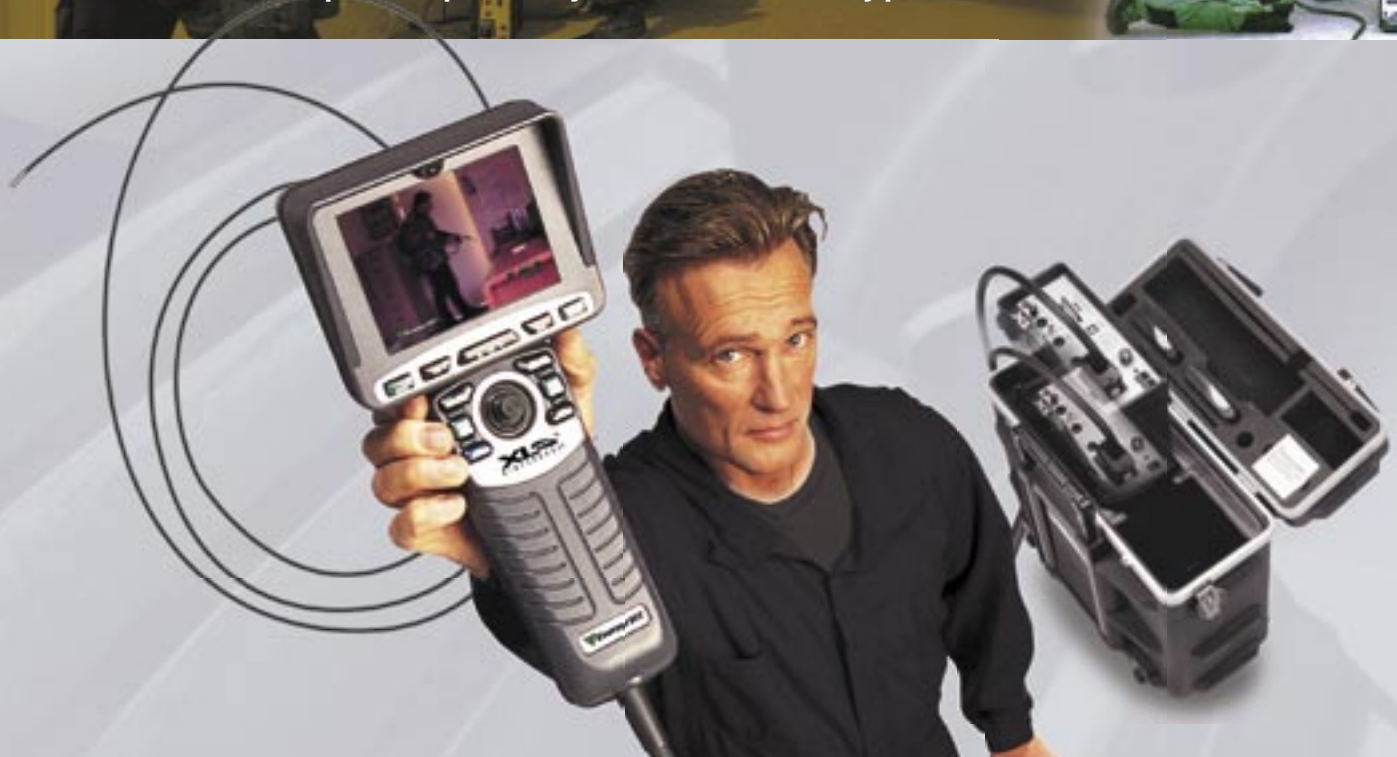


Advanced, Portable, Modular

Particularly suited to law enforcement and surveillance operations, this probe incorporates a long-exposure mode for superior viewing in low-light situations. Dedicated controls allow the operator to switch off the lamp and lower the speed of the ventilation fan for diminished noise and reduced detection. The Covert system can also be carried on a Covert Backpack and powered by the PowerBar™ battery pack.



Features

- Specially designed for reduced noise and lampless operation
- Adjusted focal range for crisp image at long distances
- Probe is interchangeable with XL PRO and XL PRO Plus systems
- Available in XL PRO and XL PRO Plus models
- CompactFlash® removable storage media – XL PRO Plus
- USB Streaming digital video output – XL PRO Plus
- Integrated viewing, recording, measuring, comparing and playback
- Complete portability with the PowerBar™ battery operation as well as a covert backpack designed specifically for law enforcement
- Onscreen time/date, temperature warning, articulation position and character generation

System Features

Processor/Light Source

A dedicated lamp On/Off switch is standard on the Covert model to ensure complete control over lighting in dangerous situations. When the lamp switch is in the off position, the exhaust fan speed is reduced also ensuring quiet operation:

XL PRO Plus

- Removable CompactFlash® data storage for Video and Still images
- Full-motion MPEG1/MPEG2 audio/video recording and playback
- USB streaming video port
- Internal 32 MB Flash memory

XL PRO

- 3.5 in. Floppy drive for still image storage
- Internal 16 MB Flash memory
- Available 32 MB FlashPath® floppy disk



XL PRO Plus
Processor/Light Source

XL PRO
Processor/Light Source

Processor/Light Source



Shipping/Operating Case

Covert Backpack with
PowerBar™ Battery Pack

Hand-Piece

The ergonomic Hand-Piece provides one-handed operation with intuitive joystick articulation, large control buttons and a high-resolution color LCD.

The innovative Hand-Piece features:

- Joystick for All-Way articulation and menu control
- Shock-mounted LCD monitor
- Integrated microphone
- Insertion tube torsional strain-relief
- Impact-absorbing rubber bumpers



With Mini Magic Arm



Hand-Piece

Probe Tip

All-Way® Probe Tip
Articulation

Probes

The Covert VideoProbe® is offered in 6.1 mm and 8.4 mm diameters with custom diameters available upon request. The probes are interchangeable, ruggedly constructed, the probes are protected by:

- Titanium or stainless steel camera heads
- Quad-wall insertion tube construction
- Tungsten braid over entire insertion tube and bending neck
- Force-limited, servo-motor articulation

Technical Specifications

System

Case Dimensions: 55.9 x 55.9 x 26.7 cm (22.0 x 22.0 x 10.5 in.)
Weight: In case 15.9 kg (35.0 lbs.), Without case 7.7 kg (17.0 lbs.)
Power Supply: **AC Power** Nominal input: 100-240 V (min 90 V, max 250 V);
 50-400 Hz; 150 W max, 2 A max
DC Power Nominal input: 11-14 V, 11 A max
 +28 VDC via accessory adapter

Camera

6.1 and 8.4 mm diameter VideoProbe systems

Image Sensor: 1/6 in. Color SUPER HAD™ CCD
Pixel Count: 380,000 pixels NTSC; 440,000 pixels PAL
Long Exposure: Automatic or Manual (34 msec to 8 seconds)
White Balance: Factory default or user defined
Housing: Titanium (6.1 mm), Stainless Steel (8.4 mm)

Hand-Piece

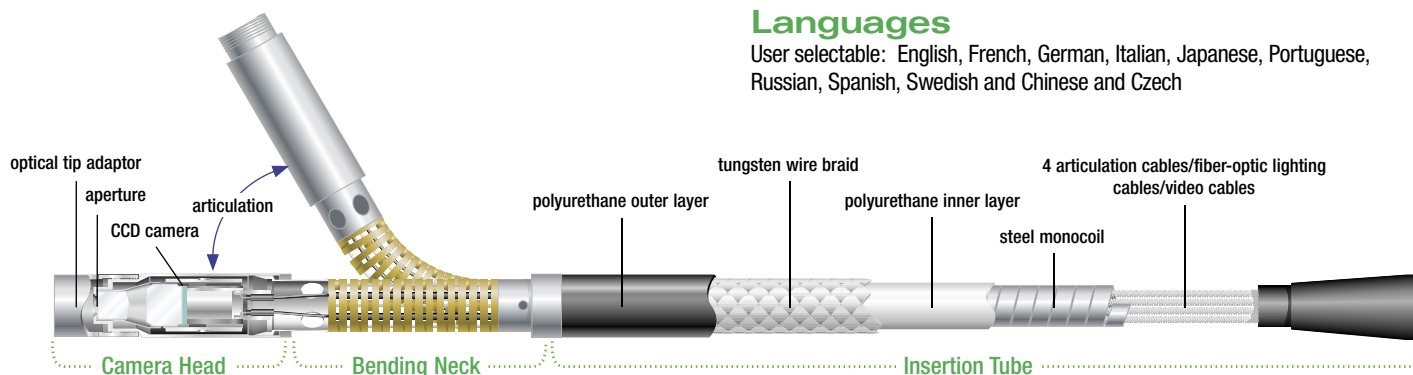
Dimensions: 30.5 x 14.7 x 12.7 cm (12.0 x 5.8 x 5.0 in.)
Weight: 2.3 kg (5.1 lbs.) typical; includes insertion tube, power plug, power tube and hand-piece
Power Tube: 1.52 m (5.0 ft.)
Construction: ABS housing with integrated Santoprene® bumpers
LCD Monitor: 12.7 cm (5.0 in.) diagonal integrated TFT color LCD
Articulation: None
User Controls: Joystick and complete button function set
Microphone: Integrated high-sensitivity microphone

Software

Operating System: Real-time multitasking
User Interface: Simple drop-down menu-driven operation
File Manager: File and folder creation, naming, copying, deletion
Audio Data: PC compatible, 15 second files (.WAV format)
Image Controls: Handset brightness control – gain and exposure
Image Management: Single button freeze frame, Full or Split screen
Long Exposure: Automatic or Manual (34 msec to 8 seconds)
Digital Zoom: 1X to 3X – Continuous and 5-Level Stepped
Still Image Formats: BITMAP or JPEG (Super High, High or Low .JPG)
Annotation: Text and Graphic screen overlays and custom logos
Articulation Controls: All-Way® steering, Steer/Stay, Home, Fine or Coarse
Lamp Control: Manual brightness and software On/Off
Software Updates: Field upgradeable via floppy disks
Remote Control: PC control via iVIEW™ Remote XL PRO™ application
Temperature Warning: Integrated camera temperature warning system

Insertion Tube

Note: Illustration is not drawn to scale.



Operating Environment

Tip Operating Temp: -25° to 80°C (-13° to 176°F)
System Operating Temp: -20° to 46°C (-4° to 115°F)
Storage Temperature: -25° to 60°C (-13° to 140°F)
Relative Humidity: 95% max
Waterproof: Insertion tube and tip to
 1 bar (14.7 psig, 10.2 m [33.5 ft.] of H₂O)
Hazardous Environments: Not rated for use in hazardous environments

Processor/Light Source

Common Specifications

Dimensions: 27.9 W x 29.5 D x 14.0 H cm (11.0 x 11.6 x 5.5 in.)
Weight: 5.4 kg (12.0 lbs.)
Construction: Aluminum chassis with polyurethane bumpers
Processor: 32 bit Pentium®-class embedded computer
Brightness Control: Automatic and Variable
Lamp Type: 50 W Metal-Halide Arc
Lamp Output: 2600 lumens at 5885K
Lamp Life: 1000 hrs., median
Keyboard Input: PS/2 style keyboard connector
Audio Speaker: Built-in front panel speaker with volume control knob
Audio Out Jack: RCA style connector, line-level audio out
Video Input: S-Video and Composite BNC (XL PRO only) inputs
Video Out: S-Video and Composite BNC
Remote Control: RS-232, DB-9F Connector

XL PRO Plus Specifications

Memory: 32 MB internal Flash memory
Disk Drives: CompactFlash®, Type I, accepts all memory sizes
Still Image Storage: .BMP uncompressed – 900 KB typical file size
 .JPG Super High Quality – 200 KB typical file size
 .JPG High Quality – 90 KB typical file size
 .JPG Low – 30 KB typical file size
Video Recording: MPEG2: High and Low Quality Settings, Up to 42 min. recording on High w/1 GB CF card
 MPEG1: High, Medium and Low Quality Settings, Up to 92 min. recording on Med w/1 GB CF card
Video Output: S-Video and USB 1.1 streaming digital video

XL PRO Specifications

Memory: 16 MB internal Flash memory
Disk Drive: 3.5 in. Floppy (accepts 32 MB FlashPath® media)
Still Image Storage: .BMP uncompressed – 900 KB typical file size
 .JPG Super High Quality – 200 KB typical file size
 .JPG High Quality – 90 KB typical file size
 .JPG Low – 30 KB typical file size

Languages

User selectable: English, French, German, Italian, Japanese, Portuguese, Russian, Spanish, Swedish and Chinese and Czech

PRODUCT	CAMERA DIAMETER	INSERTION TUBE WORKING LENGTH						
		1.5 m (4.9 ft.)	2.0 m (6.6 ft.)	2.5 m (8.2 ft.)	3.0 m (9.8 ft.)	4.5 m (14.9 ft.)	6.0 m (19.8 ft.)	7.5 m (24.8 ft.)
VideoProbe® XL PRO™ and XL PRO Plus	6.1 mm (0.24 in.)	1.5 m (4.9 ft.)	2.0 m (6.6 ft.)	2.5 m (8.2 ft.)	3.0 m (9.8 ft.)	4.5 m (14.9 ft.)	6.0 m (19.8 ft.)	7.5 m (24.8 ft.)
	8.4 mm (0.33 in.)	1.5 m (4.9 ft.)	2.0 m (6.6 ft.)	-	3.0 m (9.8 ft.)	4.5 m (14.9 ft.)	6.0 m (19.8 ft.)	7.5 m (24.8 ft.)

Technical Specifications

Tip/Lens Options

6.1 mm Standard Optical Tips

TIP VIEW (DOV)	TIP COLOR	FIELD OF VIEW (FOV)*	DEPTH OF FIELD (DOF)	MAGNIFICATION** 13" MONITOR/5" LCD	6.1 MM OPTICAL TIP PART #
FORWARD	NONE ☒	50°	150 mm (5.90 in.)-infinity	3X / 1X	XT650FF
FORWARD	WHITE □	50°	17-200 mm (0.67-7.87 in.)	22X / 8X	PXT650FG
FORWARD	YELLOW ■	90°	50 mm (1.97 in.)-infinity	5X / 2X	PXT690FF
FORWARD	ORANGE ■	80°	3-20 mm (0.12-0.79 in.)	70X / 27X	PXT680FN
FORWARD	BLACK ■	100°	7-120 mm (0.28-4.72 in.)	31X / 12X	PXT6100FG
SIDE	BROWN ■	50°	145 mm (5.71 in.)-infinity	3X / 1X	PXT650SF
SIDE	GREEN ■	50°	14-160 mm (0.55-6.30 in.)	22X / 8X	PXT650SG
SIDE	RED ■	80°	1-20 mm (0.04-0.79 in.)	70X / 27X	PXT680SN
SIDE	BLUE ■	100°	6-100 mm (0.24-3.94 in.)	22X / 9X	PXT6100SG
45° (FORWARD /OBLIQUE)	PURPLE ■	50°	17-80 mm (0.67-3.15 in.)	22X / 8X	PXT650FB

6.1 mm ShadowProbe® Measurement Optical Tips

FORWARD	WHITE □	50°	14-30 mm (0.55-1.18 in.)	26X / 10X	XT650FG
SIDE	GREEN ■	50°	14-35 mm (0.55-1.38 in.)	26X / 10X	XT650SG
SIDE	BLUE ■	50°	8-24 mm (0.31-0.94 in.)	45X / 17X	XT650SN

6.1 mm StereoProbe® Measurement Optical Tips

FORWARD	BLACK ■	60°/60°	6-80 mm (0.24-3.15 in.)	27X / 11X	PXTM66060FG
SIDE	BLUE ■	50°/50°	4-50 mm (0.16-1.97 in.)	27X / 11X	PXTM65050SG

8.4 mm Optical Tips

TIP VIEW (DOV)	TIP COLOR	FIELD OF VIEW (FOV)*	DEPTH OF FIELD (DOF)	TYPICAL APPLICATIONS	TIP PART #
FORWARD	GOLD ■	20°	Variable, 350 mm (13.78 in.) - infinity	Small tanks, small vessels	IPT820FF-GOLD
FORWARD	BLACK ■	40°	Variable, 20 - 800 mm (0.79 - 31.50 in.)	1" and larger piping	IPT840FG-BLACK
FORWARD	WHITE □	40°	Variable, 50 mm (1.97 in.) - infinity	Large tanks, large vessels	IPT840FF-WHITE
FORWARD	BLUE ■	40°	Variable, 100 mm (3.94 in.) - infinity	Far viewing, rooms	IPT840FF-BLUE
FORWARD	YELLOW ■	80°	Variable, 15 - 600 mm (0.59 - 23.62 in.)	3/8" - 1" tubing	IPT880FN-YELLOW
FORWARD	This kit includes IPT820FF-GOLD, IPT840FG-BLACK, IPT840FF-WHITE, IPT840FF-BLUE and IPT880FN-YELLOW tips. (The side view mirror is not included in the kit and must be ordered separately.)				IPT8SET
SIDE (Mirror)	GREEN ■	40°	Variable, 20 - 600 mm (0.79 - 23.62 in.)	1" - 8" piping	V6330-3009

*FOV is specified diagonally. **Magnification specifications at near-side of tip Depth of Field.



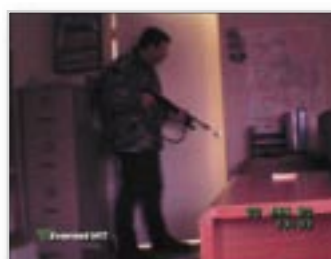
PowerBar™ Battery Pack



■ Contraband hidden in radiator



■ Surveillance of a hostage situation in a low-light environment



■ Surveillance of a hostage suspect from a hidden location



■ Pre-entry room sweep in SWAT operation



ISO 9001
REGISTERED COMPANY

ABOUT EVEREST VIT

Everest VIT is the industry leader in the development of Remote Visual Inspection (RVI) equipment, sales, on-site service, rentals and training. RVI provides viewing capabilities from a remote location, enabling companies around the world to inspect machinery, facilities and infrastructure in the safest, quickest and most cost-effective manner possible. Everest VIT's innovative products have been used to streamline the inspection process in all industries where safety, security and accuracy are of paramount concern, such as aviation, power generation, processing, manufacturing, law enforcement and infrastructure.

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