IPLEX™ GX/GT

Industrial Videoscope

The Right Tool for the Job







Versatility and Power for Multiple Jobs

With interchangeable insertion tubes and light sources, an 8 inch touch screen, and advanced imaging features, the IPLEX GX/GT videoscope delivers an optimal balance of versatility, imaging capabilities, and ease of use.



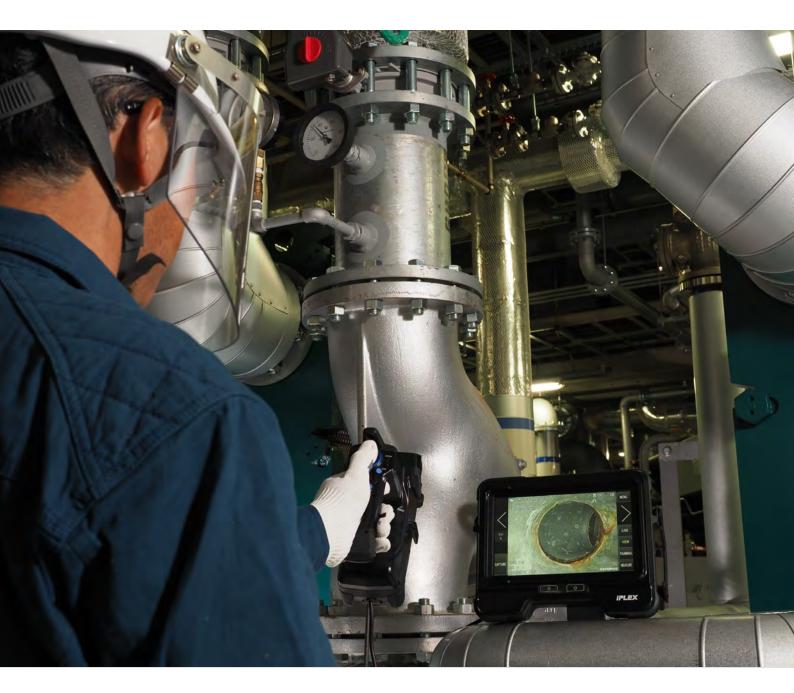
Get the Most Out of Your Videoscope

Powerful Features at Your Fingertips

- Easy-to-use touch screen and hot key controls
- Position the screen where it's comfortable for you
- Bright and clear images with smart video

One Tool for Many Jobs

- Change between white, ultraviolet, and infrared light sources
- Interchangeable scopes in a variety of diameters and lengths
- Tough enough to work in harsh environments





Powerful Features at Your Fingertips



Innovative Imaging Improves Inspections

Bright Illumination

The LED light source of IPLEX GX/GT is 30% brighter than its predecessor (IPLEX RX/RT).

Crisp images

The videoscope uses a new noise reduction algorithm to make it easier to locate problems and defects in dark areas.

Smooth 60 fps video

Capture smooth videos with the videoscope's high frame rate. If you are recording a moving object, you can obtain clear videos with no stutter.

Bright and Crisp images







IPLEX GX/GT

Smooth 60 fps video

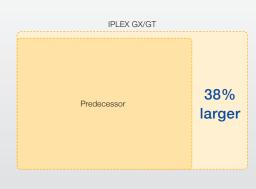






IPLEX GX/GT





Convenient Controls

The large monitor leaves plenty of room to display both your inspection image and quick control buttons. Most functions can be controlled using the touch screen, including the articulation. If you want to use the full screen to view images, the hot keys on the controller give you control over the most important functions.

Smart Video Recording

Record still images and video simultaneously

With the push of a button, you can capture still images while recording a video without interruption.

Bookmark

Add bookmarks to save time and quickly find critical moments during video reviews.



Constant video*

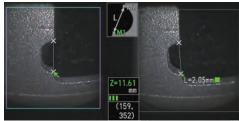
Never lose critical inspection recordings.

The videoscope automatically records the last
30 minutes of your inspection even if you forget
to press the record button.

*Available only with IPLEX GX and requires optional microSDHC card

Powerful Measurement at Your Fingertips

The videoscope is equipped with scalar measurement as a standard feature, enabling you to size objects using a reference defect. For more advanced functionality, upgrade to the stereo measurement option to size objects using precise three-dimensional coordinates.



Distance





Depth

One Tool for Many Jobs

Interchangeable Scopes and Light Sources. Modular Components Enable You to Adapt the Videoscope to Your Inspection Tasks

Scopes are available in 4 mm and 6 mm diameters with lengths up to 10 meters (32 feet). Interchangeable illumination modules also allow you to change between White LED, UV, or IR.

Scope unit

- $\,\square\,$ Scope diameter 6.0 mm: length 2.0 / 3.5 / 7.5 / 10 m
- □ Scope diameter 4.0 mm: length 2.0 / 3.5 m

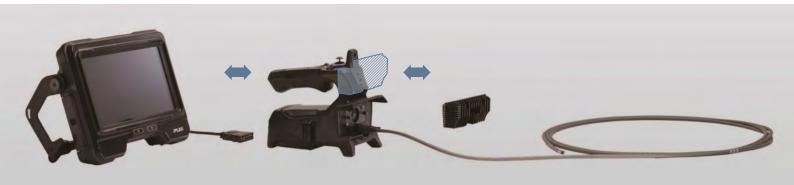
Light sources

- □ White light: standard inspections
- □ Ultraviolet (UV): detect hairline cracks, lubricants
- □ Infrared (IR): view objects in dark areas

The scopes and illumination modules can be changed on-site quickly and easily, reducing downtime.



hite light UV light





Easy Data Sharing and Collaboration

There are two convenient wireless connectivity options.

- Send saved images and videos to a PC using the IPLEX desktop app for secure file transfer.
- 2. Share live inspection images with iOS smartphones and tablets using the IPLEX Image Share app available in the App Store.

The IPLEX Image Share app is available in the App Store for compatible iOS devices.



Tested Tough

The videoscope is designed to meet IP65 standards for dust and water resistance and built to pass U.S. Department of Defense testing (MIL-STD) for protection against:

- ☐ Drops of up to ☐ High humidity
 1.2 meters (4 feet) ☐ Salt fog
- □ Vibration □ Freezing rain
- □ Blowing rain □ Electromagnetic environments
- □ Dust □ Explosive atmospheres





See clearly in Oily Environments

The grooves on the oil clearing tip adapter uses capillary action to draw oil away from the lens, keeping your images clear and visible so that you don't have to stop your inspection to wipe oil off of the scope's lens.





Visit our website for more information.

Accessories

Carrying Case

The hard-walled carry case is small enough to fit in the overhead bin of most airplanes, while protecting the videoscope against the rigors of travel.



Scope Case

(optional) MAJ-2339



Lithium-ion Battery

The battery provides up to 186 minutes of operation.

Rigid Sleeve Sets

(optional) **MAJ-1253** (for 6.0 mm) **MAJ-1737** (for 4.0 mm)

Sets are available for 6 mm and 4 mm scopes. Each set comes with three rigid sleeves, measuring 250 mm, 340 mm, and 450 mm in length.

Optical Adapters (optional)

A variety of optical adapters for the scope enable you to change the angle, direction, and depth of view.

Guide Tube

(optional) **MAJ-2341** (for 7.5 m) **MAJ-2342** (for 10.0 m)



IPLEX GX/GT Features and Specifications

BASIC FUNCTIONS

Model No.		IV9420G	IV9435G	IV9620G	IV9635G	IV9675G	IV96100G		
	Scope diameter		0 mm		ø 6.0				
	Scope length	2.0 m (6.6 ft)	3.5 m (11.5 ft)	2.0 m (6.6 ft)	3.5 m (11.5 ft)	7.5 m (24.6 ft)	10.0 m (32.8 ft		
Insertion tube	Exterior	2.0 (0.0)	515 11 (1115 13)		tungsten braid				
moor tron tabo	Tube flexibility	Uniform	stiffness		ered Flex tube with flexibility grad	ually increasing toward the dista	el end		
	Temperature sen		Uniform stiffness		gh temperature warning	daily increasing toward the distr	ii ciid		
	Articulation angle								
Articulation section	up/down/right/le	ft 18	30°		50°	120°	110°		
	Articulation opera			1.06 kg (2.3 lbs)	mode articulation control by tour		1.66 kg (3.7 lb:		
Approx. weight		0.99 kg (2.2 lbs)	0.99 kg (2.2 lbs) 1.05 kg (2.3 lbs)						
Dimensions (W x D	xH)		97 mm × 18	· · · · · · · · · · · · · · · · · · ·	in. × 6.2 in.) Protruding parts n	ot included			
Illumination				LED illu	mination				
ASE UNIT									
Model No.			IPLEX GX (IV9000G)			IPLEX GT (IV9000G)			
Weight (with battery	7)		, ,	1.77 kg	(3.9 lbs)	, ,			
Dimensions (W x D			241 mm × 190 mm × 70 mm (9,5 in, × 7,5 in, × 2,8 in,) Protuding parts not included						
Dimensions of carry					1.7 in. × 9.6 in.) Carry-on size on				
Display	J				pe touch screen, 5 step adjustal				
	AC power		S mon dayiigitt viet		(with supplied AC adapter)				
Power supply	Battery		10.8 V nominal) Battery operation time: approx	186 minutes			
/ideo output standard			10.0 ¥ 11011111181		HDMI 1.4	. 100 miliatos			
Headset (microphor					ini plug CTIA				
Wireless live stream		Using the re	ecommended USB wireless LAN a			S devices using the IPI FX Imag	e Share app		
Wireless file transfe			Attach the recommended USB wir						
Scope unit intercha			lable for all scope model combina			able between the same scope r			
OFTWARE FEATURE		Avail	acio ioi ali scope model combild	aron i	Avdik	LONG DOCTOROGIT THE SALTIE SOUDE I			
				ev e.e.					
Image features					step brightness control				
Gain control		4-step adjusta	4-step adjustable gain control(Manual, Auto, Wider1, Wider2)			Auto			
Dynamic noise reduction			Available						
Sharpness control			mode adjustable sharpness contr			_			
Saturation control		3-step adjustable of	control of color saturation (Monoto						
Display text options	i				er title display				
Note text options		30-ch	aracter title display, mark, free dra						
Image display funct	ions		Live image can b	be inverted to right and left, inv	rerted to up and down and rotate	ed 180 degrees			
RECORDING MAN	AGEMENT FUNC	CTIONS							
	Normal			SDHC (with s	upplied SDHC)				
Recording media	Constant Video	micro SDHC (using the re-	micro SDHC (using the recommended parts) Set the Constant video function to ON						
Internal memory	Constant video		Available (only the still images are recorded) —						
Overlay		Availa			ip Adapter, Evident logo, and sy	stem settina			
Overlay Thumbnail image di	snlav		Zoom, Dilgitilit			Julian John 19			
Still image di	Resolution		Recorded images can be displayed as thumbnails H768 x V576 (Pixel)						
Still image recording	Recording forma	•	Compressed JPE format						
	Resolution	-		H768 x V576 (Pixel)					
Video recording	Recording forma	1	MPEG A N/C/		Profile. Windows Media Player 1	2 compatible			
recording	Frame rate	•	IVII LG 4 AVO/I		/ 30 fps	_ companion			
				50 lps	, 00 ipo				
MEASUREMENT F	UNCTIONS								
Scaler measuremen	it			Using reference length	to measure object length				
STEREO MEASUR	EMENT ELINIOTIC	ONIC							
	EIVIEIN I FUNCTIO	ONIC							
Distance			Distance between two points *1						
Point-to-line			Perpendicular distance between a point and a user-defined line *1			_			
Depth			ht distance between a point and a						
Area/Lines		Multiple po	int circumference and area measu	urement *1		_			
PERATING ENVI	RONMENT			MIL-STD COMPLIA	NCE				
	In air: -25 °C to 100 °C (-13 °E to 21				Method				
Operating temperature	Insertion tube	in water: 10 °C to 30 °C (50 °F to 8		Vibration	Method MIL-STD-810G, METHOD 514.7, Procedure I (General vibration test)		ion tost)		
		In air: -10 °C to 40 °C (14 °F to 104		Shock	MIL-STD-810G, METHOD 514.7, Procedure I (General vibration test) MIL-STD-810G, METHOD 516.7, Procedure IV (Transit drop test)				
	Other parts	In air: 0 °C to 40 °C (32 °F to 104 °I		Water Resistance	MIL-STD-810G, METHOD 516.7, Procedure IV (Iransit drop test) MIL-STD-810G, METHOD 506.6, Procedure I (Rain and Blowing rain test)				
		(with AC power adapter and batter			MIL-STD-810G, METHOD 506.6, Procedure I (Hain and Blowing rain test) MIL-STD-810G, METHOD 507.6, Procedure II (Aggravated Cycle)				
Relative humidity	All parts	15 to 90%					, ue,		
-	All parts	Operable when exposed to machine	e oil, light oil or 5% saline solution	Salt Fog Sand and Dust	MIL-STD-810G, METHOD 509		roat)		
	•	Operable under water with viewing		- Sand and Dust	MIL-STD-810G, METHOD 510.6, Procedure I (Blowing dust test) MIL-STD-810G, METHOD 521.4				
	Insertion tube	Not operable under water with stere		Icing/Freezing Rain		6 Procedure I (Oneration in a			
		I IV/OA namina . I lasta na naminalant ta							

	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)			
Operating temperature		In air: -10 °C to 40 °C (14 °F to 104 °F) (with battery)			
tomporataro	Other parts	In air: 0 °C to 40 °C (32 °F to 104 °F) (with AC power adapter and battery charge)			
Relative humidity	All parts	15 to 90%			
Liquid resistance	All parts	Operable when exposed to machine oil, light oil or 5% saline solution			
Dust proofing and water proofing	Insertion tube	Operable under water with viewing tip adapter attached Not operable under water with stereo measurement tip adapter IV94 series - Up to an equivalent to 3.5 m (11.5 ft) in depth IV96 series - Up to an equivalent to 10 m (32.9 ft) in depth			
	Other parts	IP65; not operable under water (battery cover and others must be closed)			

Туре	Method
Vibration	MIL-STD-810G, METHOD 514.7, Procedure I (General vibration test)
Shock	MIL-STD-810G, METHOD 516.7, Procedure IV (Transit drop test)
Water Resistance	MIL-STD-810G, METHOD 506.6, Procedure I (Rain and Blowing rain test)
Humidity	MIL-STD-810G, METHOD 507.6, Procedure II (Aggravated Cycle)
Salt Fog	MIL-STD-810G, METHOD 509.6
Sand and Dust	MIL-STD-810G, METHOD 510.6, Procedure I (Blowing dust test)
Icing/Freezing Rain	MIL-STD-810G, METHOD 521.4
Explosive Atmosphere	MIL-STD-810G, METHOD 511.6, Procedure I (Operation in an explosive atmosphere test)
Electromagnetic Interference (EMI)	MIL-STD-461G, RS103 Above decks

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

OPTICAL TIP ADAPTER SPECIFICATIONS

		AT40D-IV96G	AT80D/NF-IV96G	AT80D/FF-IV96G	AT120D/NF-IV96G	AT120D/FF-IV96G	AT80S-IV96G	AT120S/NF-IV96G	AT120S/FF-IV96G	AT220D-IV76	AT100D/100S-IV76
	Field of view	40°	80°	80°	120°	120°	80°	120°	120°	220°	100°/100°
Optical system	Direction of view	Forward Side							Forward	Forward/Side	
System	Depth of field*2	200 to ∞ mm	9 to ∞ mm	35 to ∞ mm	2 to 200 mm	19 to ∞ mm	15 to ∞ mm	1 to 25 mm	3 to ∞ mm	1.6 to ∞ mm	2.0 to ∞ mm
Distal Outer diameter*3					ø 6.0) mm				ø 8.4 mm	ø 6.0 mm
end	Distal end*4	18.4 mm	18.9 mm	18.8 mm	18.9 mm	18.8 mm		24.2 mm		21.1 mm	29.5 mm
Oil clearing				Available							

4.0 mm Viewing Tip Adapters

		AT80D/ FF-IV94G	AT120D/ NF-IV94G	AT120D/ FF-IV94G	AT100S/ NF-IV94G	AT100S/ FF-IV94G	
Optical system	Field of view	80°	120° 120°		100°	100°	
	Direction of view		Forward	Side			
	Depth of field*2	35 to ∞ mm	2 to 200 mm	17 to ∞ mm	2 to 15 mm	8 to ∞ mm	
Distal	Outer diameter*3						
end	Distal end*4	19.0 mm			21.7 mm		
Oil clearing			Available	_			

Stereo Tip Adapters (4.0 mm and 6.0 mm)

		AT50D/ 50D-IV94	AT50S/ 50S-IV94	AT60D/ 60D-IV96	AT60S /60S-IV96	
	Field of view	50°/	/50°	60°/60°		
Optical system	Direction of view	Forward	Side	Forward	Side	
	Depth of field*2	5 to ∞ mm	4 to ∞ mm	5 to ∞ mm	4 to ∞ mm	
Distal	Outer diameter*3	ø 4.0) mm	ø 6.0	mm	
end	Distal end*4	24.3 mm	28.4 mm	24.9 mm	31.3 mm	

^{*1.} Upgrade for optional function. *2. Indicates the viewing distance with optimal focus. *3. The adapter can be inserted into a ø4.0 mm, ø6.0 mm and ø8.4 mm hole when it is mounted on the scope. *4. Indicates the length of the rigid portion at the scope's distal end when mounted.



