



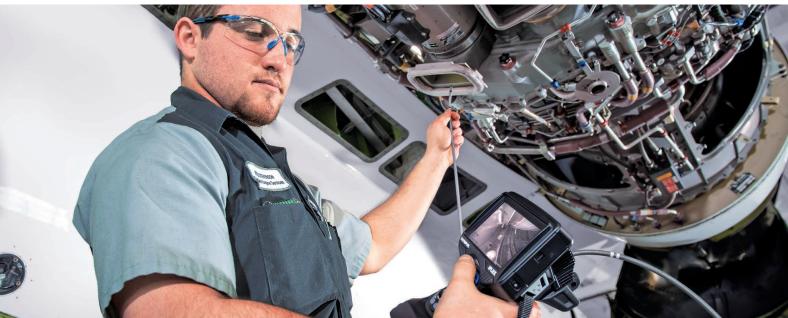
## The Portable, Powerful Videoscope



### Small and Tough Enough to Use Almost Anywhere

The IPLEX G Lite industrial videoscope packs powerful imaging capabilities into a small, rugged body. Lightweight and able to go almost anywhere, the IPLEX G Lite videoscope provides users working in challenging environments with a remote visual inspection tool that has the image quality and ease of use to get the job done.







### Get More, Do More

### **Go Anywhere**

- Lightweight and easy to carry
- Rugged and durable

# True to Your Image

- Twice as bright as its predecessor (IPLEX UltraLite)
- High frame rate for smooth videos

### **Fast and Easy**

- Responsive joystick and precise movements
- Images that show fine details
- Interchangeable UV and IR light modules



### Go Anywhere

#### Fits comfortably in your hand

Ergonomically designed and weighing only 1.15 kg (2.5 pounds), the IPLEX G Lite videoscope can be carried to almost any job site and used comfortably.



#### Made to travel

The videoscope and its accessories fit neatly in a lightweight travel case small enough to fit under an airplane seat.



#### **Durable**

Designed to meet IP65 standards for protection against dust and water, and built to pass U.S. Department of Defense testing (MIL-STD), IPLEX G Lite videoscopes can be used in harsh conditions, including rain, high humidity, salt fog, dust, freezing rain, electromagnetic environments, and even









### True to Your Image

#### Better Images through Innovation

#### Dynamic image optimization

The PulsarPic image processor constantly optimizes your images by reducing halation, balancing exposure, and optimizing gain quality.

#### **Bright illumination**

The IPLEX G Lite videoscope's LED light source is twice as bright as its predecessor (IPLEX UltraLite), helping you locate problems and defects in dark areas and lighting up large spaces.

#### 60 frames per second (fps) video

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

#### Contrast matching

WiDER image processing increases the contrast of dark areas in your images to match that of bright areas, enabling you to see fine details throughout the entire image.

#### True colors and reduced noise

A noise reduction algorithm minimizes noise in dark videos and helps ensure accurate color reproduction.





Bright illumination, even in large and deep areas

IPLEX G Lite

Predecessor (IPLEX UltraLite)



Smooth videos at 60 fps

#### Powerful measurement tools

IPLEX G Lite videoscopes are equipped with a scaler measurement tool that enables you to size objects using a reference defect. For more advanced functionality, add optional stereo measurement to size objects using precise three-dimensional coordinates.



#### Flexible UV and IR lighting options

Interchangeable ultraviolet (UV) and infrared (IR) lighting options are available to expand the videoscope's capabilities. UV is used to detect fine scratches that are hard to see with the naked eye while IR illumination works well for capturing images in the dark.



Visit our website for more information.



### Fast and Easy

### Responsive joystick, precise movements

The IPLEX G Lite videoscope's ergonomic design is complemented by TrueFeel articulation, making the joystick incredibly responsive. A light touch produces an immediate response and precise movement from the insertion tube so that it is easier to maneuver the scope.



#### **Image Capture Made Easy**

#### **Smooth videos**

The 60 fps recording speed renders smooth videos, even if the object is moving.

#### Take still images while recording video

With the push of a button, take a still image while you're recording a video.

#### Constant video recording

Ever forget to hit record at the start of your inspection? No problem—the videoscope automatically records the last 30 minutes of your inspection, even between startups and battery changes.

#### Add bookmarks to your videos

When you're recording a video, it's simple to add a bookmark so you can find the location again quickly.



#### See clearly in oily environments

When inspecting in oily environments, such as the gearbox of a wind turbine, getting oil on the scope's lens can make it difficult to see. The oil clearing tip adaptor uses capillary action to draw oil away from the lens so that you get clearer images without having to stop, withdraw the insertion tube, clean the lens, and resume the inspection.

#### Convenient controls

All the videoscope's functions can be controlled using the responsive touch screen or with the conveniently located guick access buttons.

#### Screen sharing

Wirelessly send live inspection images and video to smartphones and tablets.

Note: Only iOS is supported. Using the new Olympus Image Share App available on the App Store.



Visit our website for more information.







### Accessories

#### 1 Carry case

The hard-walled carry case is lightweight and small enough to fit under an airplane seat while protecting the videoscope against the rigors of travel.



#### 2 Memory card



#### 3 AC power adaptor

The instrument can be powered either by the battery or with the AC power adaptor.



#### 4 Lithium-ion battery BLH-1(MAJ-2340)

The battery powers the videoscope for up to 90 minutes of continuous use.



#### **5** Rigid sleeve sets

MAJ-1253 (for 6.0 mm insertion tube) MAJ-1737 (for 4.0 mm insertion tube)

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.

Note: The carry case can only accommodate the 250 mm and 340 mm sleeves.

#### 6 Interchangeable light sources

MAJ-2336 (White light) MAJ-2337 (UV light) MAJ-2338 (IR light)

Ultraviolet (UV) and infrared (IR) lighting

options are available to expand the videoscope's capabilities.

#### Optical adaptors

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



#### IPLEX G Lite videoscope dimensions



#### Carry case dimensions



#### IPLEX G Lite Specifications

#### BASIC FUNCTIONS

BASIC FUNCTIONS										
Model No.		IV942		IV9435GL		V9620GL	IV9635GL	ľ	V96100GL	
	Scope diameter		ø 4.0 r				ø 6.0 mm			
Insertion tube	Scope length	2.0	) m	3.5 m		2.0 m	3.5 m		10.0 m	
	Exterior				High dura	oility tungsten braid				
	Tube flexibility		Uniform s	tiffness		Tapered Flex tube with flexibility that gradually increases toward the distal end				
	Temperature sensor				2-stage indicator for	or high temperature war	ning			
Articulation section	Articulation angle up/down/right/left		130	•		150	) <sub>0</sub>		110°	
	Articulation operation				TrueFeel electro	nic scope tip articulatio	n			
Approx. system weight	(with battery)	1.15	5 kg	1.21 kg		1.23 kg	1.34 kg		1.83 kg	
Dimensions (W x D x H)	)				128 mm × 203 mm ×	110 mm (5 in. × 8 in. ×	4.3 in.)			
Dimensions of carrying	case			455 mm × 33	0 mm × 185 mm (18 in.	< 13 in. × 7.2 in.) Carry	on size on most airlines	3		
llumination					LEI	) illumination				
Display					4.3-inch WVGA LCD	with capacity-type touc	h panel			
	AC power					Hz (with supplied AC a				
Power supply	Battery		7.4 V nominal, a	approx. (with supplied ba	attery); Battery operation	time: approx. 90 minute	es (use ECO mode to ex	tend the life of the battery	/)	
Video output standard	HDMI				Туре	C HDMI 1.4				
Headset terminal (micro	phone input / audio output)				ø 3.5 m	m mini plug CTIA				
ive image streaming				Attach the re	ecommended USB wirele	ss LAN adaptor to the	Type A USB connector			
OFTWARE MANIPUL	LATIONS					·				
Image manipulations		5X digital zoom,	16 step brightness of	control						
Gain control				al, Auto, Wider 1, Wider	2)					
Dynamic noise reductio	n	Available								
Display text options		30-character title	display							
Note text options		30-character title	display, mark, free	drawing						
mage display functions	3	Live image can be displayed right-to-left or left-to-right, inverted up-and-down, or rotated 180 degrees								
	EMENT FUNCTIONS	, ,	. , ,							
	Standard recording	SDHC (with supp	olied SDHC)							
Recording media	Constant video recording	micro SDHC (mic	cro SD card required	to use the constant vide	eo function)					
nternal memory		Available (only sti	ill image recording)							
Overlay		Selectable 30 ch	aracter title with dat	e, time, optical tip, logo,	title, and system setting	s; Olympus logo, title, a	nd system settings			
Thumbnail image displa	зу	Recorded image:	s can be displayed a	as thumbnails						
Datill income and an addition	Resolution	H768 x V576 (Pix	xel)							
Still image recording	Recording format	Compressed JPE	EG format							
	Resolution	H768 x V576 (Pix	xel)							
/ideo recording	Recording format	MPEG 4 AVC/H.:	264 conforms to Ba	seline Profile: compatible	e with Windows Media P	ayer 12				
	Frame rate	60 fps / 30 fps								
IEASUREMENT FUN	ICTIONS									
Scaler measurement		Using a reference	e length to measure	an object's length						
TEREO MEASUREM	ENT FUNCTIONS — UF	GRADE FOR O	PTIONAL FUNC	TIONALITY						
Distance		Distance betwee	n two points							
Point-to-line		Perpendicular dis	stance between a po	oint and a user-defined li	ne					
Depth		Orthogonal depth	h/height distance be	tween a point and a use	er-defined plane					
Area/Lines			cumference and area							
PERATING ENVIRON	NMENT									
	Insertion tube	In air: -25 °C to 1	100 °C (-13 °F to 21	2 °F); in water: 10 °C to	30 °C (50 °F to 86 °F)					
Operating temperature	Other parts	In air: -10 °C to 40 °C (14 °F to 104 °F) (with battery) In air: 0 °C to 40 °C (32 °F to 104 °F) (with AC power adaptor/when charging battery)								
			°C (32 °F to 104 °F)	(with AC power adapto	r/when charging battery)					
Relative humidity	All parts	15 to 90%								
telative humidity	All parts	Operable when exposed to machine oil, light oil, or 5% saline solution								
Oust proofing and Waterproofing	Insertion tube	Operable under water with viewing tip adaptor attached; Not operable underwater with stereo measurement tip adaptors IV94 series — Up to an equivalent to 3.5 m (1.1.5 ft) in depth IV96 series — Up to an equivalent to 10 m (32.9 ft) in depth								
	Other parts			be closed); Not operable	e under water					
MIL-STD COMPLIANO	CE					f damaga us des	nditions Dis!	Ohimpun mpt-ti (	or dotails	
ivirorimental performance	confirmed using MIL-STD-81	ua anu MIL-STD-4	ora testing. No wai	ranty is given that ensur	es trie devices are free c	uarriage under any co	i unioris. Piease ask an (	Jiyiripus representative to		
Type	Vibration	Shock	Water Decistance	Humidity	Salt Foo	Sand and Duet	Icina/Eroozina Pain	Evolosivo Atmosphoro	Electromagne	

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

#### OPTICAL TIP ADAPTOR SPECIFICATIONS

	6.0 mm Viewing Tip Adaptors										
		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
0.11.1	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*1	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*2		ø 6.0 mm							ø 8.4 mm	ø 6.0 mm
end	Distal end*3	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 cleari	ng			Available							

		4.0 n	nm Viewing Tip A	daptors			
		AT80D/ FF-IV94G	AT120D/ NF-IV94G	AT120D/ FF-IV94G	AT100S/ NF-IV94G	AT100S/ FF-IV94G	
	Field of view	80°	120°	120°	100°	100°	
Optical	Direction of view		Forward	Side			
system	Depth of field*1	35 to ∞ mm	2 to 200 mm	17 to ∞ mm	2 to 15 mm	8 to ∞ mm	
Distal Outer diameter*2 end Distal end*3		ø 4.0 mm					
			19.0 mm	21.7 mm			
Oil cleari	ng		Available		-	_	

	Ste	ereo Tip Adaptors	(4.0 mm AND 6.0	0 mm)		
		AT50D/ 50D-IV94	AT50S/ 50S-IV94	AT60D/ 60D-IV96	AT60S/ 60S-IV96	
0 11 1	Field of view	50°/	′50°	60°/ 60°		
Optical system	Direction of view	Forward	Side	Forward	Side	
	Depth of field*1	5 to ∞ mm	4 to ∞ mm	5 to ∞ mm	4 to ∞ mm	
Distal	Outer diameter*2	ø 4.0	mm	ø 6.0 mm		
end	Distal end*3	24.3 mm	28.4 mm	24.9 mm	31.3 mm	

- 11. Indicates the viewing distance with optimal focus.
  2. The adaptor can be inserted into a ø 4.0 mm, ø 6.0 mm and ø 8.4 mm hole when it is mounted on the scope.
  3. Indicates the length of the rigid portion at the scope's distal end when mounted.
- EVIDENT CORPORATION is ISO14001 certified.
- EVIDENT CORPORATION is ISO9001 certified.

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