



IPLEX G Lite

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

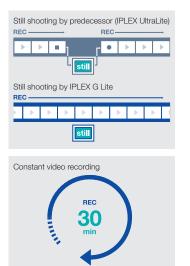
With the push of a button, take a still image while you're recording a video.

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.



6 Interchangeable light sources

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



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.



6 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.

IPLEX G Lite videoscope dimensions



Carry case dimensions



IPLEX G Lite Specifications

Model No.			V9420GL	IV9435GL		IV9620GL	IV9635GL		IV96100GL				
	Scope diameter		ø 4.0 r	nm			ø 6.0 mm						
	Scope length		2.0 m	3.5 m		2.0 m	3.5 m		10.0 m				
Insertion tube	Exterior				High dura	bility tungsten braid							
	Tube flexibility		Uniform s	iffness	i ligit dara		th flevihility that graduall	y increases toward the d	istal and				
	Temperature sens	or	Offilion 173		2 stage indicator f	or high temperature war		y increases toward the d	otal ora				
	Articulation angle	OI .			2-stage indicator i	or night temperature war	TIIIII						
Articulation section	up/down/right/left	.	130			15	0°		110°				
Alticulation section	Articulation opera				TruoFool plactre	onic scope tip articulatio	n						
Ai		uon	1.15 1	1.011	Truereer electro				1.83 kg				
Approx. system weight			1.15 kg	1.21 kg	100 000	1.23 kg	1.34 kg		1.63 Kg				
Dimensions (W x D x H	·					: 110 mm (5 in. × 8 in. ×							
Dimensions of carrying	g case			455 mm × 331	0 mm × 185 mm (18 in.		on size on most airlines	3					
Illumination			LED illumination										
Display	1		4.3-inch WVGA LCD with capacity-type touch panel										
Power supply	AC power					Hz (with supplied AC a							
т онст заррту	Battery		7.4 V nominal, approx. (with supplied battery); Battery operation time: approx. 90 minutes (use ECO mode to extend the life of the battery)										
Video output standard	HDMI				Туре	e C HDMI 1.4							
Headset terminal (micr	ophone input / audio	output)			ø 3.5 m	nm mini plug CTIA							
Live image streaming				Attach the re	ecommended USB wirele	ess LAN adaptor to the	Type A USB connector						
SOFTWARE MANIPU	JLATIONS												
Image manipulations		5X digital zo	om, 16 step brightness of	ontrol									
Gain control			table gain control (Manua		2)								
Dynamic noise reducti	on	Available		,,,	,								
Display text options	···		r titlo display										
Note text options			30-character title display										
			30-character title display, mark, free drawing Live image can be displayed right-to-left or left-to-right, inverted up-and-down, or rotated 180 degrees										
Image display function	IS	Live image of	an be displayed right-to-	left or left-to-right, invert	ted up-and-down, or rot	ated 180 degrees							
RECORDING MANAC	GEMENT FUNCTION	DNS											
D	Standard recordin	g SDHC (with	supplied SDHC)										
Recording media	Constant video re	cording micro SDHC											
Internal memory		Available (or	ly still image recording)										
Overlay		Selectable 3	0 character title with date	e, time, optical tip, logo,	title, and system setting	s; Olympus logo, title, a	nd system settings						
Thumbnail image displ	lav		nages can be displayed a		. , ,		, ,						
	Resolution	H768 x V57											
Still image recording	Recording format		Compressed JPEG format										
	Resolution												
Video recordina	Recording format		H768 x V576 (Pixel) MPEG 4 AVC/H.264 conforms to Baseline Profile: compatible with Windows Media Player 12										
video recording	Frame rate	60 fps / 30 f		sellile i Tollie. Compatible	5 WILL WILLOWS MEGIA I	layer 12							
4540UD5145UT 5U		60 lps / 30 l	ps										
MEASUREMENT FUI	NCTIONS												
Scaler measurement			rence length to measure										
STEREO MEASUREN	MENT FUNCTIONS	 UPGRADE FO 	R OPTIONAL FUNC	TIONALITY									
Distance		Distance be	ween two points										
Point-to-line		Perpendicula	ar distance between a po	int and a user-defined li	ne								
Depth			Perpendicular distance between a point and a user-defined line Orthogonal depth/height distance between a point and a user-defined plane										
Area/Lines			Multiple point circumference and area measurement										
OPERATING ENVIRO	NINACNIT	Wattpie poil	it circumicronec and arci	Thousardment									
JPERATING ENVIRO													
Operating	Insertion tube		to 100 °C (-13 °F to 21		30 °C (50 °F to 86 °F)								
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)										
Relative humidity	All parts	15 to 90%											
Relative humidity	All parts	Operable wh	Operable when exposed to machine oil, light oil, or 5% saline solution										
Dust proofing and	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 (11.5 ft) in depth										
Waterproofing			N96 series — Up to an equivalent to 10 m (32,9 ft) in depth										
	Other parts		1956 (Battery cover and others must be closed); Not operable under water										
ANII CTD COMBULAN		, co (Editor)	Iroo (batter) cover and others must be closed); Not operable under water										
MIL-STD COMPLIAN Environmental performanc		STD 810G and MIL O	FD 461G tosting No	ranty is given that ac	on the devices are free	of damago updor op:	nditions Diseases ask	Olympus raprocesteti :-	for datails				
zi iviroi imentai periormano	e confirmed using MIL-	-21D-910G and MIL-S	1D-401G testing. NO Wal	ranty is given that ensur I	es ine devices are free c	л uarriage under any co Т	nunuons. Piease ask an	Olympus representative					
Туре	Vibration	Shock	Water Resistance	Humidity	Salt Fog	Sand and Dust	Icing/Freezing Rain	Explosive Atmosphere	Electromagnet Interference (El				
	MIL-STD-810G,	MIL-STD-810G,	MIL-STD-810G,	MIL-STD-810G,	MIL-STD-810G,	MIL-STD-810G,	MIL-STD-810G,	MIL-STD-810G,	MIL-STD-461G,				
	METHOD 514.7	METHOD 516.7	METHOD 506 6	METHOD 507 6	METHOD 509 6	METHOD 510 6	METHOD 521 /	METHOD 511 6	RS103 All Shine				

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 Vie	wing 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
0-4:1	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 clearii	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
Optical system	Field of view	80°	120°	120°	100°	100°
	Direction of view		Forward	Side		
	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		19.0 mm	21.7 mm		
Oil cleari	ing		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	
Optical system	Field of view	50°/	/50°	60°/	/ 60°	
	Direction of view	Forward	Side	Forward	Side	
	Depth of field*1	5 to ∞ mm	4 to ∞ mm	5 to ∞ mm	4 to ∞ mm	
Distal end	Outer diameter*2	ø 4.0) mm	ø 6.0	mm	
	Distal end*3	24.3 mm	28.4 mm	24.9 mm	31.3 mm	

- *1. 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.
- OLYMPUS CORPORATION is ISO14001 certified.

- OLYMPUS CORPORATION is ISO14001 certified.

 OLYMPUS CORPORATION is ISO9001 certified.

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 Using it in a residential environment may affect other equipment in the environment.

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