



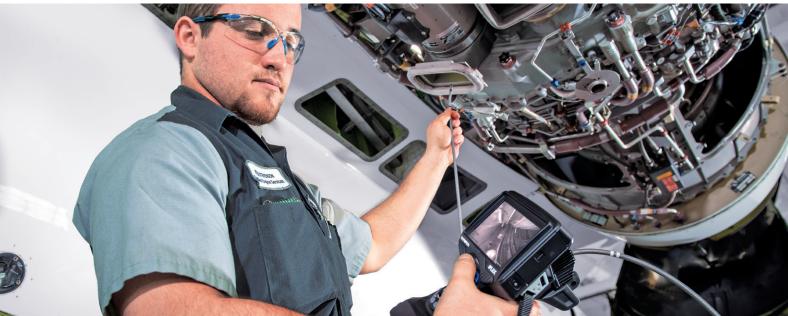
The Portable, Powerful Videoscope



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,









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 quick 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.



Capillary action to draw oil away





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)

5 Rigid sleeve sets

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



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.			V9420GL	IV9435GL		V9620GL	IV9635GL		IV96100GL			
	Scope diameter		ø 4.0) mm			ø 6.0 mm					
	Scope length		2.0 m	3.5 m		2.0 m	3.5 m		10.0 m			
nsertion tube	Exterior				High dura	bility tungsten braid						
	Tube flexibility		Uniform	stiffness		Tapered Flex tube wi	th flexibility that gradually	y increases toward the d	istal end			
	Temperature sens	or			2-stage indicator f	or high temperature war	ning					
	Articulation angle		13	00		15	00		110°			
Articulation section	up/down/right/lef	t	13	.U-		15	U-		110-			
	Articulation opera	tion			TrueFeel electro	onic scope tip articulatio	n					
Approx. system weight	t (with battery)		1.15 kg	1.21 kg		1.23 kg	1.34 kg		1.83 kg			
Dimensions (W x D x H	1)				128 mm × 203 mm ×	110 mm (5 in. × 8 in. ×	4.3 in.)					
Dimensions of carrying	g case			455 mm × 33	0 mm × 185 mm (18 in.	× 13 in. × 7.2 in.) Carry	on size on most airlines	3				
Illumination			LED illumination									
Display					4.3-inch WVGA LCD	with capacity-type touc	h panel					
Power supply	AC power				100 V to 240 V, 50/60	Hz (with supplied AC a	adaptor)					
Power supply	Battery		7.4 V nominal,	approx. (with supplied ba	attery); Battery operation	time: approx. 90 minute	es (use ECO mode to ex	tend the life of the batter	ry)			
Video output standard	HDMI				Туре	C HDMI 1.4						
Headset terminal (micr	rophone input / audio	output)			ø 3.5 m	m mini plug CTIA						
Live image streaming				Attach the re	ecommended USB wirele	ess LAN adaptor to the	Type A USB connector					
SOFTWARE MANIPU	II ATIONS											
)	5V F 7.1	40 1 1 1 1 1									
Image manipulations			om, 16 step brightness		2)							
Gain control			iable gain control (Man	ual, Auto, Wider 1, Wider	۷)							
Dynamic noise reduction	on	Available										
Display text options		30-characte	r title display									
Note text options		30-characte	r title display, mark, free	e drawing								
Image display function	ıs	Live image of	an be displayed right-t	o-left or left-to-right, inver	ted up-and-down, or rota	ated 180 degrees						
RECORDING MANAG	SEMENT FUNCTION	ONS				-						
1LCONDING WANAC												
Recording media	Standard recording		supplied SDHC)									
	Constant video re	-	· · · · · · · · · · · · · · · · · · ·	ed to use the constant vide	eo function)							
Internal memory			ly still image recording)									
Overlay				ate, time, optical tip, logo,	title, and system setting	s; Olympus logo, title, a	nd system settings					
Thumbnail image displ	-		nages can be displayed	as thumbnails								
Still image recording	Resolution	H768 x V57	· ,									
	Recording format		JPEG format									
	Resolution	H768 x V57	· ,									
Video recording	Recording format			laseline Profile: compatible	e with Windows Media P	layer 12						
	Frame rate	60 fps / 30 f	ps									
MEASUREMENT FUN	NCTIONS											
Scaler measurement		Using a refe	rence length to measur	e an object's length								
STEREO MEASUREN	AENT ELINICTIONS											
	VIEINT FUNCTIONS			CHUNALITY								
Distance			tween two points									
Point-to-line			Perpendicular distance between a point and a user-defined line									
Depth			Orthogonal depth/height distance between a point and a user-defined plane									
Area/Lines		Multiple poir	nt circumference and ar	ea measurement								
OPERATING ENVIRO	NMENT											
	Insertion tube	In air -25 °C	to 100 °C (-13 °F to 2	12 °F); in water: 10 °C to	30 °C (50 °F to 86 °F)							
Operating					0 (00 . 10 00 1)							
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)									
Dolotino humidita	All nort-											
Relative humidity	All parts	15 to 90%		0 0-64 -0 - 50/ - "								
Relative humidity	All parts			e oil, light oil, or 5% saline		th -t :	4:					
Duet proofice	Insertion tube		Operable under water with viewing tip adaptor attached; Not operable underwater with stereo measurement tip adaptors									
Dust proofing and	insertion tube		1/94 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 IP65 (Battery cover and others must be closed); Not operable under water									
Waterproofing	Other perte		y cover and others mus	ii be ciosea); Noi operable	e unuer water							
	Other parts	II OO (Dattor										
MIL-STD COMPLIAN	ICE											
MIL-STD COMPLIAN	ICE		TD-461G testing. No w	arranty is given that ensur	res the devices are free c	f damage under any co	nditions. Please ask an	Olympus representative	for details.			
MIL-STD COMPLIAN Environmental performance	ICE se confirmed using MIL	-STD-810G and MIL-S	T -	T				1	Electromagnet			
MIL-STD COMPLIAN Environmental performanc Type	ICE		TD-461G testing. No w Water Resistance	arranty is given that ensur Humidity MIL-STD-810G.	res the devices are free of Salt Fog	f damage under any co Sand and Dust MIL-STD-810G.	nditions. Please ask an Icing/Freezing Rain	Olympus representative Explosive Atmosphere MIL-STD-810G,	for details. Electromagnet Interference (El			

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/N										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	Oil clearing 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	ng		Available		_	_

Stereo Tip Adaptors (4.0 mm AND 6.0 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 o 4.0 mm, o 6.0 mm and o 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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