

IPLEX G Lite Specifications

BASIC FUNCTIONS

Model No.	IV9420GL	IV9435GL	IV9620GL	IV9635GL	IV96100GL	
Insertion tube	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
	Exterior	High durability tungsten braid				
	Tube flexibility	Uniform stiffness				Tapered Flex tube with flexibility that gradually increases toward the distal end
Articulation section	Temperature sensor	2-stage indicator for high temperature warning				
	Articulation angle up/down/right/left	130°		150°		110°
	Articulation operation	TrueFeel electronic scope tip articulation				
Approx. system weight (with battery)	1.15 kg	1.21 kg	1.23 kg	1.34 kg	1.83 kg	
Dimensions (W x D x H)	128 mm x 203 mm x 110 mm (5 in. x 8 in. x 4.3 in.)					
Dimensions of carrying case	455 mm x 330 mm x 185 mm (18 in. x 13 in. x 7.2 in.) Carry-on size on most airlines					
Display	LED illumination					
Power supply	AC power	100 V to 240 V, 50/60 Hz (with supplied AC adaptor)				
	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	Type C HDMI 1.4					
Headset terminal (microphone input / audio output)	ø 3.5 mm mini plug CTIA					
Live image streaming	Attach the recommended USB wireless LAN adaptor to the Type A USB connector					

SOFTWARE MANIPULATIONS

Image manipulations	5X digital zoom, 16 step brightness control
Gain control	4 step adjustable gain control (Manual, Auto, Wider 1, Wider 2)
Dynamic noise reduction	Available
Display text options	30-character title display
Note text options	30-character title display, mark, free drawing
Image display functions	Live image can be displayed right-to-left or left-to-right, inverted up-and-down, or rotated 180 degrees

RECORDING MANAGEMENT FUNCTIONS

Recording media	Standard recording	SDHC (with supplied SDHC)
	Constant video recording	micro SDHC (micro SD card required to use the constant video function)
Internal memory	Available (only still image recording)	
Overlay	Selectable 30 character title with date, time, optical tip, logo, title, and system settings; Olympus logo, title, and system settings	
Thumbnail image display	Recorded images can be displayed as thumbnails	
Still image recording	Resolution	H768 x V576 (Pixel)
	Recording format	Compressed JPEG format
Video recording	Resolution	H768 x V576 (Pixel)
	Recording format	MPEG 4 AVC/H.264 conforms to Baseline Profile: compatible with Windows Media Player 12
	Frame rate	60 fps / 30 fps

MEASUREMENT FUNCTIONS

Scaler measurement	Using a reference length to measure an object's length
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STEREO MEASUREMENT FUNCTIONS – UPGRADE FOR OPTIONAL FUNCTIONALITY

Distance	Distance between 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 point circumference and area measurement

OPERATING ENVIRONMENT

Operating temperature	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)
	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 when exposed to machine oil, light oil, or 5% saline solution
Dust 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 (11.5 ft) in depth IV96 series – Up to an equivalent to 10 m (32.9 ft) in depth
	Other parts	IP65 (Battery cover and others must be closed); Not operable under water

MIL-STD COMPLIANCE

Environmental performance confirmed using MIL-STD-810G and MIL-STD-461G testing. No warranty is given that ensures the devices are free of damage under any conditions. Please ask an Olympus representative for details.

Type	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											
Optical system	Field of view	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
Optical system	Field of view	40°	80°	80°	120°	120°	80°	120°	120°	220°	100°/100°
	Direction of view	Forward			Side			Forward/Side			
Distal end	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
	Outer diameter*2	ø 6.0 mm									
Oil clearing	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 clearing	Available									

4.0 mm Viewing Tip Adaptors						Stereo Tip Adaptors (4.0 mm AND 6.0 mm)						
Optical system	Field of view	AT80D/FF-IV94G	AT120D/NF-IV94G	AT120D/FF-IV94G	AT100S/NF-IV94G	AT100S/FF-IV94G	Optical system	Field of view	AT50D/50D-IV94	AT50S/50S-IV94	AT60D/60D-IV96	AT60S/60S-IV96
Optical system	Field of view	80°	120°	120°	100°	100°	Optical system	Field of view	50°/50°		60°/60°	
	Direction of view	Forward			Side			Direction of view	Forward	Side	Forward	Side
Distal end	Depth of field*1	35 to ∞ mm	2 to 200 mm	17 to ∞ mm	2 to 15 mm	8 to ∞ mm	Depth of field*1	5 to ∞ mm	4 to ∞ mm	5 to ∞ mm	4 to ∞ mm	
	Outer diameter*2	ø 4.0 mm						Outer diameter*2	ø 4.0 mm		ø 6.0 mm	
Oil clearing	Distal end*3	19.0 mm			21.7 mm			Distal end	24.3 mm	28.4 mm	24.9 mm	31.3 mm
	Oil clearing	Available						Distal end*3	-			

*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.

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