



FL (Four Lock) Port System Charts for Panasonic Lumix GH3/GH4 Housings

PORT OPTIONS

Some lenses have more than one port option. The first column is always the recommended option for the best compromise of imaging quality, performance, and handling with any given lens.

PRODUCT(S) REQUIRED

Where multiple lines of products are listed for a given option, all products listed are required to make a complete compatible lens port.

LENSES REFERENCING “+4 DIOPTRER REQUIRED”

A +4 diopter is available for purchase through your local camera store, and is commonly sold in a set with +1 and +2 close-up lenses. Common brands include Tiffen and Hoya. Make sure to purchase the correct size for your lens. The thread diameter is usually referenced on the front of the lens in millimeters (\varnothing 58mm, 67mm, etc.). All photos will be out of focus if a +4 diopter is required but not used.

MEASURING FOR A PORT

Using an accurate method of measurement, preferably digital calipers, measure the lens diameter at its largest point. The lens barrel must be less than 3.3” (83mm) at its largest point to fit in FL system ports. The zoom ring must be 3” diameter or smaller for use with our universal zoom gear system.

Lens specifications posted by the manufacturer generally are not suitable for determining the correct port. If the lens extends when zooming or focusing, extend the lens to the longest point before measuring. Measure the fully extended length of the lens from the mount on the camera body.

A dome is recommended for zoom lenses and all lenses 28mm or wider. A lens must focus to 12” or closer to be used underwater behind a dome. If your lens does not focus to at least 12”, then a +4 diopter must be added to the front of the lens and included in the overall length measurement.

Flat ports are recommended for macro and telephoto lenses. Note that if a port is long enough to accommodate the full length of a 1:1 macro lens, the lens may vignette at infinity behind a flat port.



	OPTION 1 (Recommended)	OPTION 2	OPTION 3
Olympus 7-14 mm f/2.8 M.Zuiko ED PRO	Zoom gear may alternatively be used to manually focus. <u>Product(s) required:</u> 5510.45 Dome 5510.24 Extension 5509.28 Zoom Gear	Zoom gear may alternatively be used to manually focus. <u>Product(s) required:</u> 5510.45 Dome 5510.16 Extension 5509.28 Zoom Gear	
Panasonic 7-14 mm f/4 G Aspherical	Zoom gear may alternatively be used for manual focus. <u>Product(s) required:</u> 5510.45 Dome 5510.16 Extension 5509.27 Zoom Gear		
Olympus 8 mm M.Zuiko f/1.8 Fisheye PRO	AF only. <u>Product(s) required:</u> 5510.45 Dome 5510.11 Extension		
Panasonic 8 mm f/3.5 G	Dome shade must be removed. Vignetting (shadows in the corners of the image) will be present. <u>Product(s) required:</u> 5510.45 Dome 5510.11 Extension		
Panasonic 8-18 mm f/2.8-4.0 DG Vario-Elmarit ASPH	AF only. <u>Product(s) required:</u> 5510.45 Dome 5510.24 Extension 5509.27 Zoom Gear		
Olympus 9-18 mm M.Zuiko f/4-5.6 ED Micro	AF only. <u>Product(s) required:</u> 5510.45 Dome 5510.16 Extension 5509.27 Zoom Gear		

	OPTION 1 (Recommended)	OPTION 2	OPTION 3
Olympus 12 mm M.Zuiko ED	<p>Manual focus with optional focus gear.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.16 Extension</p> <p>Optional accessories:</p> <p>5509.27 Focus Gear</p>		
Panasonic 12-35 mm f/2.8 G X ASPH Power OIS Panasonic 12-35 mm f/2.8 II G X ASPH Power OIS	<p>Zoom gear may alternatively be used for manual focus.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.16 Extension 5509.27 Zoom Gear</p> <p>Optional accessories:</p> <p>0923.51 Anti-Reflection Ring</p>		
Olympus 12-40 mm M.Zuiko f/2.8 PRO	<p>Zoom gear may alternatively be used to manually focus.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.24 Extension 5509.28 Zoom Gear</p>		
Olympus 12-50 mm M.Zuiko f/3.5-6.3 MSC ED	<p>AF only.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.16 Extension 5509.27 Zoom Gear</p>		
Panasonic 12-60 mm f/3.5-5.6 ASPH Power OIS	<p>Zoom gear may alternatively be used for manual focus.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.22 Extension 5509.27 Zoom Gear</p>	<p>Lens must be used between 30-60mm to eliminate vignetting. Zoom gear may alternatively be used for manual focus.</p> <p>Product(s) required:</p> <p>5510.35 Flat Front 5510.28 Extension 5509.27 Zoom Gear</p>	

	OPTION 1 (Recommended)	OPTION 2	OPTION 3
Olympus 12-100 mm f/4.0 M.Zuiko ED IS PRO	<p>Zoom gear may alternatively be used for manual focus.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.28 Extension 5509.28 Zoom Gear</p>		
Panasonic 14-22 mm G VARIO	<p>AF only.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.22 Extension 5509.27 Zoom Gear</p>		
Olympus 14-42 mm f/3.5-5.6 ED Olympus 14-42 mm f/3.5-5.6 ED II Olympus 14-42 mm f/3.5-5.6 ED II R	<p>AF only.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.11 Extension 5509.27 Zoom Gear</p>		
Olympus 14-42 mm f/3.5-5.6 M.Zuiko ED II (R) + Olympus Fisheye Converter FCON-P01	<p>Zoom gear may alternatively be used to manually focus.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.24 Extension 5509.27 Zoom Gear</p>		
Olympus 14-42 mm f/3.5-5.6 ED EZ	<p>Zoom gear may alternatively be used to manually focus.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.16 Extension 5509.27 Zoom Gear</p>		
Panasonic 14-42 mm f/3.5-5.6 II ASPH Mega OIS	<p>Zoom gear may alternatively be used to manually focus.</p> <p>Product(s) required:</p> <p>5510.45 Dome 5510.16 Extension 5509.27 Zoom Gear</p>		

	OPTION 1 (Recommended)	OPTION 2	OPTION 3
Olympus 30 mm f/3.5 M.Zuiko ED Macro	AF only. Product(s) required: 5510.45 Dome 5510.11 Extension		
Panasonic 45 mm f/2.8 DG Macro Aspherical	AF only. Product(s) required: 5510.35 Flat Front 5510.16 Extension	AF only. Product(s) required: 5510.45 Dome 5510.11 Extension	
Olympus 60 mm M.Zuiko Macro	AF only. Product(s) required: 5510.35 Flat Front 5510.16 Extension		