



## N120 PORT SYSTEM FOR PANASONIC L-MOUNT CAMERA SYSTEM ( Full Frame Format Lens )

	CAMERA LENS	GEAR	PORT ADAPTOR	EXTENSION RING	PORT	MOUNT CONVERTER	WET LENS	OPTICAL PERFORMANCE
MACRO FULL FRAME	Sigma 105mm F2.8 DG DN Macro Art			22120 N120 Extension Ring 20 II	18708 Macro Port 80	SMC/CMC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/CMC <i>(included in all SMC/CMC packaging)</i>	81201 SMC - 1	Max. Magnification 2.4X Working Distance 46-78mm
							81202 SMC - 2	Max. Magnification 3.7X Working Distance 23-33mm
						SMC/CMC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81201 SMC - 1	Max. Magnification 2.4X Working Distance 46-78mm
							81202 SMC - 2	Max. Magnification 3.7X Working Distance 23-33mm
						<b>83250</b> M67 to Bayonet Mount Converter II	87301 EMWL Set #1	Lens FOV 23.3° Converted FOV 60°/100°/130°/160°
					18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/CMC <i>(included in all SMC/CMC packaging)</i>	81201 SMC - 1	Max. Magnification 2.4X Working Distance 46-78mm
							81202 SMC - 2	Max. Magnification 3.7X Working Distance 23-33mm
						SMC/CMC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81201 SMC - 1	Max. Magnification 2.4X Working Distance 46-78mm
		81202 SMC - 2	Max. Magnification 3.7X Working Distance 23-33mm					
		<b>83250</b> M67 to Bayonet Mount Converter II	87301 EMWL Set #1	Lens FOV 23.3° Converted FOV 60°/100°/130°/160°				
STANDARD ZOOM FULL FRAME	Panasonic Lumix S 20-60mm f/3.5-5.6	19731 PL2060-Z		22130 N120 Extension Ring 30 II	18802 8.5" Acrylic Dome Port			
					* 18809 180mm Optical Glass Wide Angle Port			
					18812 230mm Optical Glass Wide Angle Port II			
	Panasonic Lumix S PRO 24-70mm f/2.8	19730 PL2470-Z		22170 N120 Extension Ring 70 II	18802 8.5" Acrylic Dome Port			
					* 18809 180mm Optical Glass Wide Angle Port			
					18812 230mm Optical Glass Wide Angle Port II			
				22190 N120 Extension Ring 90 II	18815 250mm Optical Glass Wide Angle Port II			
	Panasonic Lumix S 24-105mm f/4	19721 PS24105-Z		22135 N120 Extension Ring 35 II	85201 N120 WACP - 1		Lens FOV 75-65° Converted FOV 130-112° Zoom Range 28-33mm	
			21335 N120 to N100 35mm Port Adaptor		85205 N100 WACP - C		Lens FOV 75-63° Converted FOV 130-109° Zoom Range 28-35mm	
				22150 N120 Extension Ring 50 II	18802 8.5" Acrylic Dome Port			
				* 18809 180mm Optical Glass Wide Angle Port				
				18812 230mm Optical Glass Wide Angle Port II				

Max. Magnification is the maximum ratio that a subject can be reproduced on a camera's image sensor (APS-C - 22.3 x 15mm, Full Frame - 36 x 24mm) at the closest working distance. Working distance operates from the distance between the subject and the front element of the close-up lens.

\* Recommended port system based on best optical performance  
\* Secondary setup recommendation based on optical performance



## N120 PORT SYSTEM FOR PANASONIC L-MOUNT CAMERA SYSTEM ( Full Frame & EF-Mount with Sigma Mount Converter MC-21 Format Lens )

	CAMERA LENS	GEAR	EXTENSION RING	PORT	OPTICAL PERFORMANCE
STANDARD ZOOM FULL FRAME	Panasonic Lumix S 24-105mm f/4	<b>19721 + 19724</b> PS24105-Z + PS24105-F	<b>22150 + 22151</b> N120 Extension Ring 50 II + Focus Knob	<b>18809</b> 180mm Optical Glass Wide Angle Port	
WIDE ANGLE FULL FRAME	Panasonic Lumix S PRO 16-35mm f/4	<b>19728</b> PL1635-Z  <b>19728 + 19729</b> PL1635-Z + PL1635-F	<b>22150 + 22151</b> N120 Extension Ring 50 II + Focus Knob	<b>85204</b> N120 WACP - 2  <b>18812</b> 230mm Optical Glass Wide Angle Port II	Lens FOV 105-63° Converted FOV 128-72°
	Sigma 14-24mm F2.8 DG DN Art	<b>19726</b> SLE1424-Z	<b>22125</b> N120 Extension Ring 25 II  <b>22150</b> N120 Extension Ring 50 II	<b>85204</b> N120 WACP - 2  <b>18809</b> 180mm Optical Glass Wide Angle Port	Lens FOV 94-84° Converted FOV 115-98° Zoom Range 20-24mm
	Leica Super-Vario-Elmar-SL 16-35mm f/3.5-4.5 ASPH	<b>19722</b> LS1635-Z  <b>19722 + 19723</b> LS1635-Z + LS1635-F	<b>22160</b> N120 Extension Ring 60 II  <b>22170</b> N120 Extension Ring 70 II	<b>18809</b> 180mm Optical Glass Wide Angle Port  <b>18802</b> 8.5" Acrylic Dome Port  * <b>18812</b> 230mm Optical Glass Wide Angle Port II  <b>18815</b> 250mm Optical Glass Wide Angle Port II	
			<b>22170 + 22171</b> N120 Extension Ring 70 II + Focus Knob	<b>18812</b> 230mm Optical Glass Wide Angle Port II	
SIGMA EF-MOUNT ( with Sigma Mount Converter MC-21 ) FULL FRAME	Sigma 12-24mm F4 DG HSM   Art	<b>19556</b> SC1224A-Z	<b>22150</b> N120 Extension Ring 50 II  <b>22160</b> N120 Extension Ring 60 II	<b>18815</b> 250mm Optical Glass Wide Angle Port II  * <b>18812</b> 230mm Optical Glass Wide Angle Port II	* This setup is not compatible with Extension Rings I SN:A213191 before 09/2016  * This setup is not compatible with Extension Rings I SN:A143566 before 09/2016
	Sigma 14mm F1.8 DG HSM   Art	<b>19563</b> SC14A-F	<b>22170</b> N120 Extension Ring 70 II	<b>18802</b> 8.5" Acrylic Dome Port  * <b>18812</b> 230mm Optical Glass Wide Angle Port II  <b>18815</b> 250mm Optical Glass Wide Angle Port II	* This setup is not compatible with Extension Rings I SN:A201966 before 09/2016
	Sigma 14-24mm F2.8 DG HSM   Art	<b>19564</b> SC1424A-Z	<b>22160</b> N120 Extension Ring 60 II  <b>22170</b> N120 Extension Ring 70 II	<b>18809</b> 180mm Optical Glass Wide Angle Port  <b>18802</b> 8.5" Acrylic Dome Port  * <b>18812</b> 230mm Optical Glass Wide Angle Port II  <b>18815</b> 250mm Optical Glass Wide Angle Port II	
	* Please refer to the following page for more setup options				

Max. Magnification is the maximum ratio that a subject can be reproduced on a camera's image sensor (APS-C - 22.3 x 15mm, Full Frame - 36 x 24mm) at the closest working distance. Working distance operates from the distance between the subject and the front element of the close-up lens.

\* Recommended port system based on best optical performance  
\* Secondary setup recommendation based on optical performance



## N120 PORT SYSTEM FOR PANASONIC L-MOUNT CAMERA SYSTEM ( EF-Mount with Sigma Mount Converter MC-21 Format Lens )

	CAMERA LENS	GEAR	PORT ADAPTOR	EXTENSION RING	PORT	OPTICAL PERFORMANCE
SIGMA EF-MOUNT ( with Sigma Mount Converter MC-21 ) FULL FRAME	Sigma 14-24mm F2.8 DG DN Art	19726 SLE1424-Z		22160 N120 Extension Ring 60 II	18802 8.5" Acrylic Dome Port	
					18812 230mm Optical Glass Wide Angle Port II	
		19726 + 19727 SLE1424-Z + SLE1424-F		22150 + 22151 N120 Extension Ring 50 II + Focus Knob	* 18815 250mm Optical Glass Wide Angle Port II	
	Sigma 20mm F1.4 DG HSM   Art			22160 N120 Extension Ring 60 II	18809 180mm Optical Glass Wide Angle Port	
			22170 N120 Extension Ring 70 II	18812 230mm Optical Glass Wide Angle Port II		
CANON EF-MOUNT ( with Sigma Mount Converter MC-21 ) FULL FRAME	Canon EF 28-70mm f/3.5-4.5 II with Sigma Mount Converter MC-21	19725 Gear Set for Canon 2870 with MC-21		22130 + 22131 N120 Extension Ring 30 II + Focus Knob	85201 N120 WACP - 1	Lens FOV 72-34° Converted FOV 128-59° Zoom Range 30-70mm
		19557 C2870f3.5II-Z		22125 N120 Extension Ring 25 II	* 85201 N120 WACP - 1	Lens FOV 75-34° Converted FOV 130-59° Zoom Range 28-70mm
		21325 N120 to N100 25mm Port Adaptor			85205 N100 WACP - C	Lens FOV 72-34° Converted FOV 130-59°
	Other Canon EF-mount Lenses with Sigma Mount Converter MC-21				N120 Canon EF-Mount Port System	

Max. Magnification is the maximum ratio that a subject can be reproduced on a camera's image sensor (APS-C - 22.3 x 15mm, Full Frame - 36 x 24mm) at the closest working distance. Working distance operates from the distance between the subject and the front element of the close-up lens.

\* Recommended port system based on best optical performance  
\* Secondary setup recommendation based on optical performance