



N120 PORT SYSTEM FOR NIKON F-MOUNT CAMERA SYSTEM

(DX & FX Format Lens)

	CAMERA LENS	GEAR	PORT BASE / PORT ADAPTOR	EXTENSION RING	PORT	MOUNT CONVERTER	WET LENS	OPTICAL PERFORMANCE	
MACRO FX	Nikon AF-S Micro NIKKOR 60mm f/2.8G ED	19121 N60G-F			18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging) SMC/CMC Option 2 - Bayonet Mount M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81301 CMC - 1 81302 CMC - 2 81501 MFO-1	Max. Magnification 1.4X Working Distance 4-73mm Max. Magnification 1.2X Working Distance 11-123mm Max. Magnification 1.1X Working Distance 12-1120mm	
	Nikon AF-S Micro NIKKOR 60mm f/2.8G ED with HOYA +4 Diopter	19121 N60G-F			18701 Macro Port 60	83250 M67 to Bayonet Mount Converter II	86201 MWL - 1	On DX Sensor Lens FOV 26.5° Converted FOV 60°/100°/130°/160°	
	<i>* This setup can only be used on DX sensor camera</i>								
	Nikon AF-S VR Micro-NIKKOR 105mm f/2.8G IF-ED	19122 N105VR-F			18702 Macro Port 87	SMC/CMC Option 1 - M67 Thread M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging) SMC/CMC Option 2 - Bayonet Mount M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81202 SMC - 2 81203 SMC - 3 81501 MFO-1 87301 EMWL Set #1	Max. Magnification 4.2X Working Distance 24-38mm Max. Magnification 2.4X Working Distance 51-103mm Max. Magnification 1.2X Working Distance 125-1080mm Lens FOV 23.3° Converted FOV 60°/100°/130°/160°	
Laowa 24mm f/14 2X Macro Probe	19155 Laowa24 Gear Set		22170 + 22171 N120 Extension Ring 70 II + Focus Knob	16336 N120 Port Adaptor for Laowa 24mm f/14 2X Macro Probe					
STANDARD ZOOM DX	Sigma 18-35mm F1.8 DC HSM I A	19146 SN1835F1.8-Z		22180 N120 Extension Ring 80 II	18802 8.5" Acrylic Dome Port 18809 180mm Optical Glass Wide Angle Port * 18812 230mm Optical Glass Wide Angle Port II				
				22150 + 22150 N120 Extension Ring 50 II + N120 Extension Ring 50 II	18815 290mm Optical Glass Wide Angle Port II				
STANDARD ZOOM FX	Nikon AF-S NIKKOR 24-85mm f/3.5-4.5G ED VR	19139 N2485-Z		22150 N120 Extension Ring 50 II	18802 8.5" Acrylic Dome Port				
	Nikon AF-S Nikkor 28mm f/1.8 G			21320 N120 to N100 20mm Port Adaptor	22120 N120 Extension Ring 20 II	* 85206 N120/N100 WACP - 1B 85201 N120 WACP - 1 85205 N100 WACP - C		Lens FOV 75° Converted FOV 130°	
	Nikon AF Nikkor 28mm f/2.8D				22135 N120 Extension Ring 35 II	85207 N120/N100 FCP - 1		Lens FOV 75° Converted FOV 170°	
	Nikon AF Nikkor 28-70mm f/3.5-4.5D	19148 N2870F3.5D-Z		21320 N120 to N100 29.3mm Port Adaptor	22135 N120 Extension Ring 35 II	* 85206 N120/N100 WACP - 1B 85201 N120 WACP - 1 85205 N100 WACP - C <i>* slight vignetting when focus distance from port to subject is less than 10cm at 28mm</i>		Lens FOV 75-34° Converted FOV 130-59°	
				22120 + 22125 N120 Extension Ring 20 II + N120 Extension Ring 25 II	85207 N120/N100 FCP - 1 <i>* slight vignetting at 28mm ~ 31mm</i>		Lens FOV 75-34° Converted FOV 170-62°		
WIDE ANGLE DX	Nikon AF-S DX NIKKOR 10-24mm f/3.5-4.5G ED	19135 N1024-Z		22150 N120 Extension Ring 50 II	18802 8.5" Acrylic Dome Port				
	Sigma 10-20mm F4-5.6 EX DC HSM	19126 SN1020-Z		22140 N120 Extension Ring 40 II	18809 180mm Optical Glass Wide Angle Port				
				22150 N120 Extension Ring 50 II	18802 8.5" Acrylic Dome Port * 18812 230mm Optical Glass Wide Angle Port II 18815 290mm Optical Glass Wide Angle Port II				
	Takina AT-X 116 PRO DX AF 11-16mm f/2.8	19128 TN1116-Z		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 18815 290mm Optical Glass Wide Angle Port II				
WIDE ANGLE FX	Nikon AF-S NIKKOR 14-24mm f/2.8G ED	19131 N1424-Z		22170 N120 Extension Ring 70 II	18802 8.5" Acrylic Dome Port				
				22180 N120 Extension Ring 80 II	* 18812 230mm Optical Glass Wide Angle Port II 18815 290mm Optical Glass Wide Angle Port II				
	Nikon AF-S NIKKOR 16-35mm f/4G ED VR	19138 N1635-Z		22150 N120 Extension Ring 50 II	* 85204 N120 WACP - 2		Lens FOV 105-63° Converted FOV 128-72°		
				22170 N120 Extension Ring 70 II	18802 8.5" Acrylic Dome Port 85206 N120/N100 WACP - 1B 85201 N120 WACP - 1		On DX Sensor Lens FOV 75-45° Converted FOV 130-78° Zoom Range 18-35mm On Full Frame Sensor Lens FOV 75-63° Converted FOV 130-109° Zoom Range 28-35mm		
				22180 N120 Extension Ring 80 II	18809 180mm Optical Glass Wide Angle Port 85207 N120/N100 FCP - 1		On DX Sensor Lens FOV 75-44° Converted FOV 158-83° Zoom Range 20-35mm On Full Frame Sensor Lens FOV 75-63° Converted FOV 170-122° Zoom Range 28-35mm <i>* slight vignetting at 28mm</i>		
				22190 N120 Extension Ring 90 II	* 18812 230mm Optical Glass Wide Angle Port II 18815 290mm Optical Glass Wide Angle Port II				
	Nikon AF-S 17-35mm f/2.8D IF-ED	19130 N1735-Z		22130 N120 Extension Ring 30 II	85204 N120 WACP - 2		Lens FOV 104-63° Converted FOV 123-72°		
				22150 N120 Extension Ring 50 II	85206 N120/N100 WACP - 1B 85201 N120 WACP - 1		On DX Sensor Lens FOV 75-45° Converted FOV 130-78° Zoom Range 18-35mm On Full Frame Sensor Lens FOV 75-63° Converted FOV 130-109° Zoom Range 28-35mm		
				22160 N120 Extension Ring 60 II	85207 N120/N100 FCP - 1		On DX Sensor Lens FOV 75-44° Converted FOV 170-83° Zoom Range 18-35mm On Full Frame Sensor Lens FOV 75-63° Converted FOV 170-122° Zoom Range 28-35mm		
				22170 N120 Extension Ring 70 II	18802 8.5" Acrylic Dome Port 18812 230mm Optical Glass Wide Angle Port II 18815 290mm Optical Glass Wide Angle Port II				
	Nikon AF-S 18-35mm f/3.5-4.5G ED	19141 N1835-Z		22140 N120 Extension Ring 40 II	* 85206 N120/N100 WACP - 1B 85201 N120 WACP - 1		On DX Sensor Lens FOV 77-45° Converted FOV 130-78° On Full Frame Sensor Lens FOV 75-63° Converted FOV 130-109°		
			22160 N120 Extension Ring 60 II	18802 8.5" Acrylic Dome Port 18809 180mm Optical Glass Wide Angle Port * 18812 230mm Optical Glass Wide Angle Port II 18815 290mm Optical Glass Wide Angle Port II					
	Sigma 14-24mm F2.8 DG HSM I Art	19153 SN1424A-Z		22160 N120 Extension Ring 60 II	18809 180mm Optical Glass Wide Angle Port <i>* This setup is not compatible with Extension Rings before SMA143566</i>				
			22170 N120 Extension Ring 70 II	18802 8.5" Acrylic Dome Port * 18812 230mm Optical Glass Wide Angle Port II 18815 290mm Optical Glass Wide Angle Port II					
	Sigma 20mm F4 DG HSM I A		22160 N120 Extension Ring 60 II	18809 180mm Optical Glass Wide Angle Port					
			22170 N120 Extension Ring 70 II	18802 8.5" Acrylic Dome Port * 18812 230mm Optical Glass Wide Angle Port II 18815 290mm Optical Glass Wide Angle Port II					
FISHEYE DX	Sigma 10mm F2.8 EX DC HSM Fisheye				18802 8.5" Acrylic Dome Port				
FISHEYE FX	Nikon AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED	19150 N815-Z		22120 N120 Extension Ring 20 II	18802 8.5" Acrylic Dome Port <i>* Shade can be removed for circular Fisheye effect at 8mm</i> * 18811 140mm Optical Glass Fisheye Dome Port with Removable Shade <i>* Shade can be removed for circular Fisheye effect at 8mm</i> 18812 230mm Optical Glass Wide Angle Port II <i>* Shade can be removed for circular Fisheye effect at 8mm</i>				
				22130 N120 Extension Ring 30 II	18803 4.33" Acrylic dome port				
	Nikon AF-S Fisheye 8-15mm f/3.5-4.5E ED with Kenko 1.4x Teleplus Pro 300 DDX	19151 N815-Z+1.4		22140 N120 Extension Ring 40 II	18802 8.5" Acrylic Dome Port 140mm Optical Glass Fisheye Dome Port with Removable Shade 18812 230mm Optical Glass Wide Angle Port II				
				22150 N120 Extension Ring 50 II	18803 4.33" Acrylic dome port				
	Nikon AF Fisheye 16mm f/2.8D				18802 8.5" Acrylic Dome Port 18810 140mm Optical Glass Fisheye 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 Nauticam underwater optics based on best underwater optical performance
- * Recommended Port System