



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 DX	Nikon AF-S DX Micro NIKKOR 40mm f/2.8G DX	19152 N40G-F			18705 Macro Port 45	83250 M67 to Bayonet Mount Converter II <i>(included in all MWL-1 packaging)</i>	86201 MWL - 1	Lens FOV 39° Converted FOV 150° Working Distance 40mm	
	Nikon AF-S DX Micro NIKKOR 85mm f/3.5G ED VR	19129 N85VR-F	18211 Compact Port Base			18305 Compact Port 30 with M67 Thread	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC <i>(included in all SMC/CMC packaging)</i>	81201 SMC - 1	Max. Magnification 2.5X Working Distance 51-96mm
								81202 SMC - 2	Max. Magnification 3.9X Working Distance 23-37mm
								81302 CMC - 2	Max. Magnification 2.1X Working Distance 57-125mm
							SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81201 SMC - 1	Max. Magnification 2.5X Working Distance 51-96mm
								81202 SMC - 2	Max. Magnification 3.9X Working Distance 23-37mm
								81302 CMC - 2	Max. Magnification 2.1X Working Distance 57-125mm
			21120 Extension Ring 20 with Lock	18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC <i>(included in all SMC/CMC packaging)</i>	81201 SMC - 1	Max. Magnification 2.5X Working Distance 51-96mm		
							81202 SMC - 2	Max. Magnification 3.9X Working Distance 23-37mm	
							81302 CMC - 2	Max. Magnification 2.1X Working Distance 57-125mm	
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81201 SMC - 1	Max. Magnification 2.5X Working Distance 51-96mm	
							81202 SMC - 2	Max. Magnification 3.9X Working Distance 23-37mm	
							81302 CMC - 2	Max. Magnification 2.1X Working Distance 57-125mm	
MACRO FX	Nikon AF Micro-NIKKOR 60mm f/2.8D		18211 Compact Port Base		18301 Compact Port 30				
	Nikon AF-S Micro NIKKOR 60mm f/2.8G ED	19121 N60G-F			18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC <i>(included in all SMC/CMC packaging)</i>	81301 CMC - 1	Max. Magnification 1.4X Working Distance 4-73mm	
							81302 CMC - 2	Max. Magnification 1.2X Working Distance 11-123mm	
							81201 SMC - 1	Max. Magnification 1.1X Working Distance 1-92mm	
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81301 CMC - 1	Max. Magnification 1.4X Working Distance 4-73mm	
							81302 CMC - 2	Max. Magnification 1.2X Working Distance 11-123mm	
						81201 SMC - 1	Max. Magnification 1.1X Working Distance 1-92mm		

*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



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	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	18211 Compact Port Base		18701 Macro Port 60	83250 M67 to Bayonet Mount Converter II <i>(included in all MWL-1 packaging)</i>	86201 MWL - 1		Lens FOV	39°	
									Converted FOV	150°	
									Working Distance	40mm	
									Max. Magnification	1.4X	
									Working Distance	4-73mm	
									Max. Magnification	1.2X	
									Working Distance	11-123mm	
									Max. Magnification	1.1X	
									Working Distance	1-92mm	
									Max. Magnification	1.4X	
	Working Distance	4-73mm									
	Max. Magnification	1.2X									
	Working Distance	11-123mm									
	Max. Magnification	1.1X									
	Working Distance	1-92mm									
	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		87303 EMWL Set #3	On DX Sensor	Lens FOV	26.5°
										Converted FOV	60°/100°/130°
	Nikon AF Micro 105mm f/2.8D		18211 Compact Port Base	18520 Compact Port Extension 20	18302 Compact Port 50						
				18540 Compact Port Extension 40	18301 Compact Port 30						
	Nikon AF-S VR Micro-NIKKOR 105mm f/2.8G IF-ED	19122 N105VR-F		21130 Extension Ring 30 with Lock	18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC <i>(included in all SMC/CMC packaging)</i>	81201 SMC - 1		Max. Magnification	2.5X	
							81202 SMC - 2		Working Distance	53-95mm	
									Max. Magnification	4.2X	
									Working Distance	24-38mm	
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81201 SMC - 1		Max. Magnification	2.5X	
							81202 SMC - 2		Working Distance	53-95mm	
									Max. Magnification	4.2X	
									Working Distance	24-38mm	
					18702 Macro Port 87	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC <i>(included in all SMC/CMC packaging)</i>	81201 SMC - 1		Max. Magnification	2.5X	
							81202 SMC - 2		Working Distance	53-95mm	
									Max. Magnification	4.2X	
									Working Distance	24-38mm	
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81201 SMC - 1		Max. Magnification	2.5X	
							81202 SMC - 2		Working Distance	53-95mm	
									Max. Magnification	4.2X	
									Working Distance	24-38mm	
						83250 M67 to Bayonet Mount Converter II	87301 EMWL Set #1		Lens FOV	23.3°	
									Converted FOV	60°/100°/130°	

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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 VR Micro-NIKKOR 105mm f/2.8G IF-ED	19122 N105VR-F	18211 Compact Port Base		18306 Compact Port 50 with M67 Thread	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC <i>(included in all SMC/CMC packaging)</i>	81201 SMC - 1	Max. Magnification 2.5X Working Distance 53-95mm		
							81202 SMC - 2	Max. Magnification 4.2X Working Distance 24-38mm		
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81201 SMC - 1	Max. Magnification 2.5X Working Distance 53-95mm		
							81202 SMC - 2	Max. Magnification 4.2X Working Distance 24-38mm		
MACRO FX	Sigma 50mm F2.8 EX DG Macro		18211 Compact Port Base		18520 Compact Port Extension 20	18303 Compact Port 15				
	Sigma 70mm F2.8 EX DG Macro		18211 Compact Port Base		18550 Compact Port Extension 50	18301 Compact Port 30				
	Sigma 105mm F2.8 EX DG OS HSM Macro			18211 Compact Port Base		21135 Extension Ring 35 with Lock	18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC <i>(included in all SMC/CMC packaging)</i>	81201 SMC - 1	Max. Magnification 2.3X Working Distance 46-93mm
								SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81201 SMC - 1	Max. Magnification 2.3X Working Distance 46-93mm
Sigma 150mm F2.8 EX DG OS HSM Macro	19147 SN105-F			21130 Extension Ring 30 with Lock		18701 Macro Port 60				
Laowa 24mm f/14 2X Macro Probe	19155 Laowa24 Gear Set			21271 Extension Ring 70 with Focus Knob		16336 N120 Port Adaptor for Laowa 24mm f/14 2X Macro Probe				
STANDARD ZOOM DX	Nikon AF-S DX NIKKOR 18-55mm f/3.5-5.6G VR	19123 N1855VR-Z	18211 Compact Port Base			18301 Compact Port 30				
	Nikon AF-S DX NIKKOR 18-55mm f/3.5-5.6G ED II	19124 N1855II-Z	18211 Compact Port Base			18301 Compact Port 30				
	Nikon AF-S DX Micro NIKKOR 18-55mm f/3.5-5.6G VR II	19144 N1855VRII-Z		21135 Extension Ring 35 with Lock		85201 WACP - 1		Lens FOV 76-29° Converted FOV 130-50°		
			18211 Compact Port Base		18304 Compact Port 15 with M67 Thread	83250 M67 to Bayonet Mount Converter II <i>(included in all MWL-1 packaging)</i>	86201 MWL - 1	Lens FOV 40-29° Converted FOV 150-109° Working Distance 40-55mm		
Sigma 17-70mm F2.8-4.5 DC Macro HSM	19132 SN1770-Z			21150 Extension Ring 50 with Lock		18802 8.5" Acrylic Dome Port				

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	CAMERA LENS	GEAR	EXTENSION RING	PORT	OPTICAL PERFORMANCE	
STANDARD ZOOM DX	Sigma 17-70mm F2.8-4 DC Macro OS HSM	19133 SN17700S-Z	21150 Extension Ring 50 with Lock	18802 8.5" Acrylic Dome Port		
	Sigma 17-70mm F2.8-4 DC Macro OS HSM C	19140 SN17700SC-Z	21140 Extension Ring 40 with Lock	18802 8.5" Acrylic Dome Port		
	Sigma 18-35mm F1.8 DC HSM A	19146 SN1835f1.8-Z	21180 Extension Ring 80 with Lock	18802 8.5" Acrylic Dome Port 18809 180mm Optical Glass Wide Angle Port * 18812 230mm Optical Glass Wide Angle Port II		
			21150 + 21150 Extension Ring 50 with Lock + 50	18815 250mm 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	21150 Extension Ring 50 with Lock	18802 8.5" Acrylic Dome Port		
	Nikon AF-S Nikkor 28mm f/1.8 G		21120 N120 Extension Ring 20 with Lock	85201 WACP - 1	Lens FOV Converted FOV	75° 130°
	Nikon AF Nikkor 28mm f/2.8D			85201 WACP - 1	Lens FOV Converted FOV	75° 130°
	Nikon AF Nikkor 28-70mm f/3.5-4.5D	19148 N2870f3.5D-Z	21135 Extension Ring 35 with Lock	85201 WACP - 1	Lens FOV Converted FOV	75-34° 130-59°
WIDE ANGLE DX	Nikon AF-S DX NIKKOR 10-24mm f/3.5-4.5G ED	19135 N1024-Z	21150 Extension Ring 50 with Lock	18802 8.5" Acrylic Dome Port		
	Nikon AF-S DX NIKKOR 12-24mm f/4G IF-ED	19125 N1224-Z	21160 Extension Ring 60 with Lock	18802 8.5" Acrylic Dome Port		
	Sigma 8-16mm F4.5-5.6 DC HSM	19136 SN816-Z	21140 Extension Ring 30 with Lock	18809 180mm Optical Glass Wide Angle Port		
			21150 Extension Ring 50 with Lock	18802 8.5" Acrylic Dome Port * 18812 230mm Optical Glass Wide Angle Port II 18815 250mm Optical Glass Wide Angle Port II		
	Sigma 10-20mm F4-5.6 EX DC HSM	19126 SN1020-Z	21140 Extension Ring 30 with Lock	18809 180mm Optical Glass Wide Angle Port		
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WIDE ANGLE DX	Sigma 10-20mm F4-5.6 EX DC HSM	19126 SN1020-Z	21150 Extension Ring 50 with Lock	18802 8.5" Acrylic Dome Port * 18812 230mm Optical Glass Wide Angle Port II 18815 250mm Optical Glass Wide Angle Port II	
	Tokina AT-X 116 PRO DX AF 11-16mm f/2.8	19128 TN1116-Z	21150 Extension Ring 50 with Lock 21160 Extension Ring 60 with Lock	18802 8.5" Acrylic Dome Port 18809 180mm Optical Glass Wide Angle Port * 18812 230mm Optical Glass Wide Angle Port II 18815 250mm Optical Glass Wide Angle Port II	
	Tokina AT-X 124 AF PRO DX AF 12-24mm f/4	19134 TN1224-Z	21150 Extension Ring 50 with Lock 21160 Extension Ring 60 with Lock	18802 8.5" Acrylic Dome Port 18809 180mm Optical Glass Wide Angle Port * 18812 230mm Optical Glass Wide Angle Port II 18815 250mm Optical Glass Wide Angle Port II	
WIDE ANGLE FX	Nikon AF-S NIKKOR 14-24mm f/2.8G ED	19131 N1424-Z	21170 Extension Ring 70 with Lock 21180 Extension Ring 80 with Lock	18802 8.5" Acrylic Dome Port * 18812 230mm Optical Glass Wide Angle Port II 18815 250mm Optical Glass Wide Angle Port II	
	Nikon AF-S NIKKOR 16-35mm f/4G ED VR <i>*Please refer to the following page for more setup options</i>	19138 N1635-Z	21150 Extension Ring 50 with Lock 21170 Extension Ring 70 with Lock 21180 Extension Ring 80 with Lock	* 85204 WACP - 2 18802 8.5" Acrylic Dome Port 85201 WACP - 1 On DX Sensor On Full Frame Sensor	Lens FOV 105-63° Converted FOV 128-72° Lens FOV 75-45° Converted FOV 130-78° Zoom Range 18-35mm Lens FOV 75-63° Converted FOV 130-109° Zoom Range 28-35mm

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WIDE ANGLE FX	Nikon AF-S NIKKOR 16-35mm f/4G ED VR	19138 N1635-Z	21190 Extension Ring 90 with Lock	* 18812 230mm Optical Glass Wide Angle Port II								
							18815 250mm Optical Glass Wide Angle Port II					
		19138 + 19142 N1635-Z + N1635-F	21240 Extension Ring 40 with Focus Knob	85204 WACP - 2		Lens FOV Converted FOV	105-63° 128-72°					
			21270 Extension Ring 70 with Focus Knob	18802 8.5" Acrylic Dome Port								
	Nikon AF-S 17-35mm f/2.8D IF-ED	19130 N1735-Z	21130 Extension Ring 30 with Lock	85204 WACP - 2		Lens FOV Converted FOV	104-63° 123-72°					
								21150 Extension Ring 50 with Lock	85201 WACP - 1	On DX Sensor	Lens FOV Converted FOV Zoom Range	75-45° 130-78° 18-35mm
								21170 Extension Ring 70 with Lock	18802 8.5" Acrylic Dome Port	On Full Frame Sensor	Lens FOV Converted FOV Zoom Range	75-63° 130-109° 28-35mm
	Nikon AF-S 18-35mm f/3.5-4.5G ED	19141 N1835-Z	21140 Extension Ring 40 with Lock	85201 WACP - 1		Lens FOV Converted FOV	77-45° 130-78°					
								21160 Extension Ring 60 with Lock	18802 8.5" Acrylic Dome Port	On Full Frame Sensor	Lens FOV Converted FOV	75-63° 130-109°
					18809 180mm Optical Glass Wide Angle Port							
					* 18812 230mm Optical Glass Wide Angle Port II							
					18815 250mm Optical Glass Wide Angle Port II							
Sigma 12-24mm F4 DG HSM Art	19149 SN1224A-Z	21150 Extension Ring 50 with Lock	18815 250mm Optical Glass Wide Angle Port II		Lens FOV Converted FOV	77-45° 130-78°						
							21160 Extension Ring 60 with Lock	* 18812 230mm Optical Glass Wide Angle Port II				
				18815 250mm Optical Glass Wide Angle Port II								
				* 18812 230mm Optical Glass Wide Angle Port II								
Sigma 14-24mm F2.8 DG HSM Art	19153 SN1424A-Z	21160 Extension Ring 60 with Lock	18809 180mm Optical Glass Wide Angle Port		Lens FOV Converted FOV	75-63° 130-109°						

* This setup is not compatible with Extension Rings SN:A213191 before 09/2016

* This setup is not compatible with Extension Rings SN:A143566 before 09/2016

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WIDE ANGLE FX	Sigma 14-24mm F2.8 DG HSM Art	19153 SN1424A-Z	21170 Extension Ring 70 with Lock	18802 8.5" Acrylic Dome Port * 18812 230mm Optical Glass Wide Angle Port II 18815 250mm Optical Glass Wide Angle Port II	* This setup is not compatible with Extension Rings SN:A201966 before 09/2016
	Sigma 20mm F4 DG HSM A		21160 Extension Ring 60 with Lock 21170 Extension Ring 70 with Lock	18809 180mm Optical Glass Wide Angle Port 18802 8.5" Acrylic Dome Port * 18812 230mm Optical Glass Wide Angle Port II 18815 250mm Optical Glass Wide Angle Port II	
	Zeiss Distagon T* 2.8/15 ZF.2	19145 ZN15-F	21155 Extension Ring 55 with Lock	18812 230mm Optical Glass Wide Angle Port II	* This setup is not compatible with Extension Rings SN:A201966 before 12/2016
FISHEYE DX	Nikon AF DX Fisheye 10.5mm f/2.8G ED	19137 N10.5-F		18802 8.5" Acrylic Dome Port * 18810 140mm Optical Glass Fisheye Port 18812 230mm Optical Glass Wide Angle Port II 18803 4.33" Acrylic dome port	
	Sigma 10mm F2.8 EX DC HSM Fisheye		21110 Extension Ring 10 with Screws	18802 8.5" Acrylic Dome Port	
	Tokina AT-X 107 AF DX Fisheye AF 10-17mm f/3.5-4.5	19127 TN1017-Z	21110 Extension Ring 10 with Screws 21120 Extension Ring 20 with Lock	18802 8.5" Acrylic Dome Port * 18810 140mm Optical Glass Fisheye Port 18802 8.5" Acrylic Dome Port 18812 230mm Optical Glass Wide Angle Port II	
	Tokina AT-X 107 AF DX Fisheye with Kenko 1.4x Teleplus Pro 300 DGX	19227 TN1017-Z+1.4	21120 Extension Ring 20 with Lock 21130 Extension Ring 30 with Lock	18804 4.33" Acrylic dome port for Tokina AT-X 107 AF DX Fisheye * 18810 140mm Optical Glass Fisheye Port	
	*Please refer to the following page for more setup options				



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FISHEYE DX	Tokina AT-X 107 AF DX Fisheye with Kenko 1.4x Teleplus Pro 300 DGX	19227 TN1017-Z+1.4	21140 Extension Ring 40 with Lock	18802 8.5" Acrylic Dome Port 18812 230mm Optical Glass Wide Angle Port II
FISHEYE FX	Nikon AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED	19150 N815-Z	21120 Extension Ring 20 with Lock	18802 8.5" Acrylic Dome Port * 18811 140mm Optical Glass Fisheye Dome Port with Removable Shade 18812 230mm Optical Glass Wide Angle Port II
	Nikon AF-S Fisheye 8-15mm f/3.5-4.5E ED with Kenko 1.4x Teleplus Pro 300 DGX	19151 N815-Z+1.4	21130 Extension Ring 30 with Lock	18803 4.33" Acrylic dome port
			21140 Extension Ring 40 with Lock	18802 8.5" Acrylic Dome Port * 18811 140mm Optical Glass Fisheye Dome Port with Removable Shade 18812 230mm Optical Glass Wide Angle Port II
			21150 Extension Ring 50 with Lock	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
	Sigma 15mm F2.8 EX DG Diagonal Fisheye	19143 SN15-F		18802 8.5" Acrylic Dome Port * 18810 140mm Optical Glass Fisheye Port 18812 230mm Optical Glass Wide Angle Port II