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 *(included in all MWL-1 packaging)*	**86201** MWL - 1	Lens FOV 39° / Converted FOV 150°
	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 *(included in all SMC/CMC packaging)*	**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 *(included in all SMC/CMC packaging)*	**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 *(included in all SMC/CMC packaging)*	**81301** CMC - 1	Max. Magnification 1.4X / Working Distance 4-73mm
							81302 CMC - 2	Max. Magnification 1.2X / Working Distance 11-123mm
						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
						83250 M67 to Bayonet Mount Converter II *(included in all MWL-1 packaging)*	**86201** MWL - 1	Lens FOV 39° / Converted FOV 150°
			18211 Compact Port Base		**18305** Compact Port 30 with M67 Thread	SMC/CMC Option 1 - M67 Thread **81228** M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)*	**81301** CMC - 1	Max. Magnification 1.4X / Working Distance 4-73mm
							81302 CMC - 2	Max. Magnification 1.2X / Working Distance 11-123mm
						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

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* Recommanded port system based on best optical performance

* Secondary setup recommandation based on optical performance

N120 PORT SYSTEM FOR NIKON F-MOUNT CAMERA SYSTEM

(DX & FX Format Lens)

MACRO
FX

CAMERA LENS	GEAR	PORT BASE / PORT ADAPTOR	EXTENSION RING	PORT	MOUNT CONVERTER	WET LENS	OPTICAL PERFORMANCE
Nikon AF-S Micro NIKKOR 60mm f-2.8G ED with HOYA +4 Diopter ** This setup can only be used on DX sensor camera*	**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 *(included in all SMC/CMC packaging)*	**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
				18702 Macro Port 87	SMC/CMC Option 1 - M67 Thread **81228** M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)*	**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
					83250 M67 to Bayonet Mount Converter II	**87301** EMWL Set #1	Lens FOV 23.3° Converted FOV 60°/100°/130°
		18211 Compact Port Base		**18306** Compact Port 50 with M67 Thread	SMC/CMC Option 1 - M67 Thread **81228** M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)*	**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
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			
		18211 Compact Port Base	**18530** Compact Port Extension 30	**18302** Compact Port 50			
Sigma 105mm F2.8 EX DG OS HSM Macro **Please refer to the following page for more setup options*	**19147** SN105-F		**21135** Extension Ring 35 with Lock	**18701** Macro Port 60	SMC/CMC Option 1 - M67 Thread **81228** M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)*	**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
					83250 M67 to Bayonet Mount Converter II	**87302** EMWL Set #2	Lens FOV 23° Converted FOV 60°/100°/130°

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* Recommanded port system based on best optical performance
* Secondary setup recommandation based on optical performance

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	**Sigma 105mm F2.8 EX DG OS HSM Macro**	**19147** SN105-F		**21130** Extension Ring 30 with Lock	**18701** Macro Port 60	SMC/CMC Option 1 - M67 Thread **81228** M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)*	**81201** SMC - 1	Max. Magnification 2.3X Working Distance 50-93mm
						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 50-93mm
	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 *(included in all MWL-1 packaging)*	**86201** MWL - 1	Lens FOV 40-29° Converted FOV 150-109° Zoom Range 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			
	Sigma 17-70mm F2.8-4 DC Macro OS HSM	**19133** SN1770OS-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** SN1770OSC-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 75° Converted FOV 130°
	Nikon AF Nikkor 28mm f/2.8D				**85201** WACP - 1			Lens FOV 75° Converted FOV 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 75-34° Converted FOV 130-59°

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N120 PORT SYSTEM FOR NIKON F-MOUNT CAMERA SYSTEM

(DX & FX Format Lens)

	CAMERA LENS	GEAR	EXTENSION RING	PORT
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
			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	**18802** 8.5" Acrylic Dome Port
				18809 180mm Optical Glass Wide Angle Port
			21160 Extension Ring 60 with Lock	* **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	**18802** 8.5" Acrylic Dome Port
			21160 Extension Ring 60 with Lock	**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	**18802** 8.5" Acrylic Dome Port
			21180 Extension Ring 80 with Lock	* **18812** 230mm Optical Glass Wide Angle Port II
				18815 250mm Optical Glass Wide Angle Port II

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N120 PORT SYSTEM FOR NIKON F-MOUNT CAMERA SYSTEM

(DX & FX Format Lens)

WIDE ANGLE
FX

CAMERA LENS	GEAR	EXTENSION RING	PORT		OPTICAL PERFORMANCE	
Nikon AF-S NIKKOR 16-35mm f/4G ED VR	**19138** N1635-Z	**21150** Extension Ring 50 with Lock	* **85204** WACP - 2		Lens FOV Converted FOV	105-63° 128-72°
		21170 Extension Ring 70 with Lock	**18802** 8.5" Acrylic Dome Port			
			85201 WACP - 1	On DX Sensor	Lens FOV Converted FOV Zoom Range	75-45° 130-78° 18-35mm
				On Full Frame Sensor	Lens FOV Converted FOV Zoom Range	75-63° 130-109° 28-35mm
		21180 Extension Ring 80 with Lock	**18809** 180mm Optical Glass Wide Angle Port			
		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
				On Full Frame Sensor	Lens FOV Converted FOV Zoom Range	75-63° 130-109° 28-35mm
		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			
	19130 + 19159 N1735-Z + N1735-F ** a spacer is required for this setup which is included in the package*	**21235** Extension Ring 30 with Focus Knob	* **85204** WACP - 2		Lens FOV Converted FOV	104-63° 123-72°
	19130 + 19159 N1735-Z + N1735-F ** spacer is not required*	**21250** Extension Ring 50 with Focus Knob	**85201** WACP - 1	On DX Sensor	Lens FOV Converted FOV Zoom Range	75-45° 130-78° 18-35mm
				On Full Frame Sensor	Lens FOV Converted FOV Zoom Range	75-63° 130-109° 28-35mm
		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			

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N120 PORT SYSTEM FOR NIKON F-MOUNT CAMERA SYSTEM

(DX & FX Format Lens)

	CAMERA LENS	GEAR	EXTENSION RING	PORT		OPTICAL PERFORMANCE
WIDE ANGLE FX	**Nikon AF-S 18-35mm f/3.5-4.5G ED**	**19141** N1835-Z	**21140** Extension Ring 40 with Lock	**85201** 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°
			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		
	Sigma 12-24mm F4 DG HSM | Art	**19149** SN1224A-Z	**21150** Extension Ring 50 with Lock	**18815** 250mm Optical Glass Wide Angle Port II	** This setup is not compatible with Extension Rings SN:A213191 before 09/2016*	
			21160 Extension Ring 60 with Lock	* **18812** 230mm Optical Glass Wide Angle Port II	** This setup is not compatible with Extension Rings SN:A143566 before 09/2016*	
	Sigma 14-24mm F2.8 DG HSM | Art	**19153** SN1424A-Z	**21160** Extension Ring 60 with Lock	**18809** 180mm Optical Glass Wide Angle Port	** This setup is not compatible with Extension Rings SN:A143566 before 09/2016*	
			21170 Extension Ring 70 with Lock	**18802** 8.5" Acrylic Dome Port	** This setup is not compatible with Extension Rings SN:A201966 before 09/2016*	
				* **18812** 230mm Optical Glass Wide Angle Port II		
				18815 250mm Optical Glass Wide Angle Port II		
	Sigma 20mm F4 DG HSM | A		**21160** Extension Ring 60 with Lock	**18809** 180mm Optical Glass Wide Angle Port		
			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		
	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		

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N120 PORT SYSTEM FOR NIKON F-MOUNT CAMERA SYSTEM

(DX & FX Format Lens)

	CAMERA LENS	GEAR	EXTENSION RING	PORT
FISHEYE DX	**Sigma 10mm F2.8 EX DC HSM Fisheye**			**18802** 8.5" Acrylic Dome Port
	Tokina AT-X 107 AF DX Fisheye AF 10-17mm f/3.5-4.5	**19127** TN1017-Z		**18804** 4.33" Acrylic dome port
			21110 N120 Extension Ring 10	* **18810** 140mm Optical Glass Fisheye Port ** This setup is only compatible with 18810 before SN:A490446*
			22110 N120 Extension Ring 10 II	* **18810** 140mm Optical Glass Fisheye Port ** This setup is only compatible with 18810 SN:A490446 onwards*
	Tokina AT-X 107 AF DX Fisheye AF 10-17mm f/3.5-4.5	**19127** TN1017-Z	**21120** Extension Ring 20 with Lock	**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	**18804** 4.33" Acrylic dome port for Tokina AT-X 107 AF DX Fisheye
			21130 Extension Ring 30 with Lock	* **18810** 140mm Optical Glass Fisheye Port
			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
			21130 Extension Ring 30 with Lock	**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 DGX	**19151** N815-Z+1.4	**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

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* Secondary setup recommandation based on optical performance

N120 PORT SYSTEM FOR NIKON F-MOUNT CAMERA SYSTEM

(DX & FX Format Lens)

	CAMERA LENS	GEAR	EXTENSION RING	PORT
FISHEYE FX	**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

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* Secondary setup recommandation based on optical performance