



## N120 CINEMA PORT SYSTEM FOR EF & RF-MOUNT CAMERA SYSTEM ( RED, CANON, PANASONIC, Z-CAM, BLACKMAGIC )

	CAMERA LENS	GEAR	EXTENSION RING	PORT	MOUNT CONVERTER	WET LENS	OPTICAL PERFORMANCE			
MACRO APSC	Canon EF-S 60mm f2.8 Macro USM	19521 C60-F		18704 Macro Port 41	SMC/CMC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/CMC <i>(included in all SMC/CMC packaging)</i>	81302 CMC - 2	On APS-C Sensor	Max. Magnification 1.6X Working Distance 38-120mm		
						81201 SMC - 1	On APS-C Sensor	Max. Magnification 1.6X Working Distance 28-94mm		
						SMC/CMC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81302 CMC - 2	On APS-C Sensor	Max. Magnification 1.6X Working Distance 38-120mm	
							81201 SMC - 1	On APS-C Sensor	Max. Magnification 1.6X Working Distance 28-94mm	
							83250 M67 to Bayonet Mount Converter II	87302 EMWL Set #2	On Full Frame Sensor	Lens FOV 23.4° Converted FOV 60°/100°/130°/160°
MACRO FULL FRAME	Canon EF 100mm f/2.8L Macro IS USM	19523 C100IS-F		18703 Macro Port 94	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	On APS-C Sensor	Max. Magnification 2.1X Working Distance 45-95mm		
						81202 SMC - 2	On APS-C Sensor	Max. Magnification 3.4X Working Distance 23-39mm		
						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	On APS-C Sensor	Max. Magnification 2.1X Working Distance 45-95mm	
							81202 SMC - 2	On APS-C Sensor	Max. Magnification 3.4X Working Distance 23-39mm	
							83250 M67 to Bayonet Mount Converter II	87302 EMWL Set #2	On Full Frame Sensor	Lens FOV 23.4° Converted FOV 60°/100°/130°/160°
	Canon RF 100mm f/2.8L Macro IS USM	19575 CRF100-F <i>* please contact us if SA control is needed</i>			18703 Macro Port 94	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	On APS-C Sensor	Max. Magnification 2.3X Working Distance 29-80mm	
							81202 SMC - 2	On APS-C Sensor	Max. Magnification 3.3X Working Distance 16-35mm	
							81301 CMC - 1	On APS-C Sensor	Max. Magnification 2.8X Working Distance 18-85mm	
							81302 CMC - 2	On APS-C Sensor	Max. Magnification 2.4X Working Distance 34-121mm	
							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	On APS-C Sensor	Max. Magnification 2.3X Working Distance 29-80mm
								81202 SMC - 2	On APS-C Sensor	Max. Magnification 3.3X Working Distance 16-35mm
81301 CMC - 1	On APS-C Sensor	Max. Magnification 2.8X Working Distance 18-85mm								
81302 CMC - 2	On APS-C Sensor	Max. Magnification 2.4X Working Distance 34-121mm								
83250 M67 to Bayonet Mount Converter II	87302 EMWL Set #2	On Full Frame Sensor	Lens FOV 24° Converted FOV 60°/100°/130°/160°							
	87303 EMWL Set #3	On Full Frame Sensor	Lens FOV 24° Converted FOV 60°/100°/130°/160°							
Laowa 24mm f/14 2X Macro Probe	16335 Laowa24 Gear Set	22170 N120 Extension Ring 70 II	16336 N120 Port Adaptor for Laowa 24mm f/14 2X Macro Probe	<i>* This setup is not compatible with Extension Rings I SN:A201966 before 09/2016</i>						

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 CINEMA PORT SYSTEM FOR EF & RF-MOUNT CAMERA SYSTEM ( RED, CANON, PANASONIC, Z-CAM, BLACKMAGIC )

	CAMERA LENS	GEAR	PORT ADAPTOR	EXTENSION RING/ PORT ADAPTOR	PORT	OPTICAL PERFORMANCE	
<b>STANDARD ZOOM</b> APSC-C	Canon EF-S 18-55mm f/3.5-5.6 IS STM	16330 RC1855STM Gear Set	21325 N120 to N100 25mm Port Adaptor	22125 N120 Extension Ring 25 II	85201 N120 WACP - 1 <small>On APS-C Sensor</small>	Lens FOV 71-29° Converted FOV 123-50° Zoom Range 20-55mm	
					85205 N100 WACP - C <small>On APS-C Sensor</small>	Lens FOV 71-29° Converted FOV 123-50° Zoom Range 20-55mm	
	Sigma 17-70mm F2.8-4 DC Macro OS HSM C	16331 RSC1770OSC Gear Set		22140 N120 Extension Ring 40 II	18802 8.5" Acrylic Dome Port		
					* 18812 230mm Optical Glass Wide Angle Port II		
	Sigma 18-35mm F1.8 DC HSM A	16326 RSC1835f1.8 Gear Set		22180 N120 Extension Ring 80 II	* 85202 N120 WACP-1 for Sigma 18-35mm F1.8 <small>On APS-C Sensor</small>		Lens FOV 71-46° Converted FOV 123-79.5° Zoom Range 20-35mm
					18802 8.5" Acrylic Dome Port		
					18809 180mm Optical Glass Wide Angle Port		
					* 18812 230mm Optical Glass Wide Angle Port II		
					22130 + 22135 N120 Extension Ring 30 II + 35 II	85201 N120 WACP - 1 <small>On APS-C Sensor</small>	Lens FOV 71-46° Converted FOV 123-79.5° Zoom Range 20-35mm
					22140 + 21325 N120 Extension Ring 40 II + N120 to N100 25mm Port Adaptor	85205 N100 WACP - C <small>On APS-C Sensor</small>	Lens FOV 71-46° Converted FOV 123-79.5° Zoom Range 20-35mm
			22150 + 22150 N120 Extension Ring 50 II + 50 II	18815 250mm Optical Glass Wide Angle Port II			
<b>STANDARD ZOOM</b> FULL FRAME	Canon EF 24-70mm f/2.8L II USM	16313 + 16314 RC2470II-Z + RC2470II-F		22170 N120 Extension Ring 70 II	18802 8.5" Acrylic Dome Port		
					* 18812 230mm Optical Glass Wide Angle Port II		
	Canon RF 24-70mm f/2.8L IS USM	16346 RF2470 Gear Set		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		
				22125 + 22150 N120 Extension Ring 25 II + 50 II	* 18815 250mm Optical Glass Wide Angle Port II		
Canon EF 24-105mm f/4L IS USM	16337 RC24105 Gear Set		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			

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



## N120 CINEMA PORT SYSTEM FOR EF & RF-MOUNT CAMERA SYSTEM ( RED, CANON, PANASONIC, Z-CAM, BLACKMAGIC )

	CAMERA LENS	GEAR	PORT ADAPTOR	EXTENSION RING	PORT	OPTICAL PERFORMANCE	
STANDARD ZOOM FULL FRAME	Canon EF 24-105mm f/4L IS II USM	16339 RC24105II Gear Set		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 18815 250mm Optical Glass Wide Angle Port II		
	Canon EF 28-70mm f/3.5-4.5 II <i>* This lens is not supported by R5C camera in video mode</i>	16334 RC2870II Gear Set		22125 N120 Extension Ring 25 II	85201 N120 WACP - 1 On APS-C Sensor On Full Frame Sensor	Lens FOV 52-22° Converted FOV 90-38°	
			21325 N120 to N100 25mm Port Adaptor		85205 N100 WACP - C On APS-C Sensor On Full Frame Sensor	Lens FOV 52-22° Converted FOV 90-38° Lens FOV 75-34° Converted FOV 130-59°	
						<i>* slight vignetting when focus distance from port to subject is less than 10cm at 28mm</i>	
	Canon RF 28-70mm f2L USM	16343 RC2870f2 Gear Set		22140 N120 Extension Ring 40 II 22160 N120 Extension Ring 60 II 22180 N120 Extension Ring 80 II	85204 N120 WACP - 2 18812 230mm Optical Glass Wide Angle Port II 18802 8.5" Acrylic Dome Port * 18809 180mm Optical Glass Wide Angle Port 18815 250mm Optical Glass Wide Angle Port II	On Full Frame Sensor <i>* This setup is only compatible with WACP-2 SN:A526311 onwards</i> <i>* This setup is only compatible with 18802 SN:A491459 onwards</i> <i>* This setup is only compatible with 18809 SN:A512606 onwards</i>	Lens FOV 75-63° Converted FOV 85-72° Zoom Range 28-35mm
	Canon EF 28-80mm f/3.5-5.6 V USM	16344 C2880VUSM Gear Set		22130 N120 Extension Ring 30 II	85201 N120 WACP - 1 On APS-C Sensor On Full Frame Sensor	Lens FOV 51-19° Converted FOV 88-33°	
			21325 N120 to N100 25mm Port Adaptor		85205 N100 WACP - C On APS-C Sensor On Full Frame Sensor	Lens FOV 75-30° Converted FOV 130-52° Lens FOV 51-23° Converted FOV 88-40° Lens FOV 75-31° Converted FOV 130-54° Zoom Range 28-77mm	
WIDE ANGLE APSC	Canon EF-S 10-18mm f/4.5-5.6 IS STM	16340 RC1018 Gear Set			85204 N120 WACP - 2 On APS-C Sensor	Lens FOV 108-75° Converted FOV 128-85°	
	Canon EF-S 10-22mm f/3.5-4.5 IS USM <i>* Please refer to the following page for more setup options</i>	16303 + 16304 RC1022-Z + RC1022-F		21110 N120 Extension Ring 10 22110 N120 Extension Ring 10 II	85204 N120 WACP - 2 On APS-C Sensor 85204 N120 WACP - 2 On APS-C Sensor	Lens FOV 108-63° Converted FOV 128-72° <i>* This setup is only compatible with WACP-2 before SN:A526311</i> Lens FOV 108-63° Converted FOV 128-72° <i>* This setup is only compatible with WACP-2 SN:A526311 onwards</i>	

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\* Secondary setup recommendation based on optical performance



## N120 CINEMA PORT SYSTEM FOR EF & RF-MOUNT CAMERA SYSTEM ( RED, CANON, PANASONIC, Z-CAM, BLACKMAGIC )

	CAMERA LENS	GEAR	EXTENSION RING	PORT	OPTICAL PERFORMANCE
WIDE ANGLE APS-C	Canon EF-S 10-22mm f/3.5-4.5 IS USM	16303 + 16304 RC1022-Z + RC1022-F	22120 N120 Extension Ring 20 II	23211 8.5" white balance acrylic dome port	
			22160 N120 Extension Ring 60 II	18802 8.5" Acrylic Dome Port	
				* 18812 230mm Optical Glass Wide Angle Port II	
				18815 250mm Optical Glass Wide Angle Port II	
	Sigma 8-16mm F4.5-5.6 DC HSM	16305 + 16306 RSC816-Z + RSC816-F	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 250mm Optical Glass Wide Angle Port II	
	Sigma 12-24mm F2.4 DG HSM   Art	16327 RSC1224A  Gear Set	22150 N120 Extension Ring 50 II	18815 250mm Optical Glass Wide Angle Port II	<i>* This setup is not compatible with Extension Rings I SN:A213191 before 09/2016</i>
			22160 N120 Extension Ring 60 II	* 18812 230mm Optical Glass Wide Angle Port II	<i>* This setup is not compatible with Extension Rings I SN:A143566 before 09/2016</i>
	Tokina AT-X 11-20mm F2.8 PRO DX	16328 RTC1120 Gear Set	22120 N120 Extension Ring 20 II	85204 N120 WACP - 2	On APS-C Sensor Lens FOV 100-68° Converted FOV 118-78°
			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 250mm Optical Glass Wide Angle Port II	
	Tokina AT-X 116 PRO DX AF 11-16mm f/2.8	16309 + 16310 RSC1116-Z + RSC1116-F	21110 N120 Extension Ring 10	85204 N120 WACP - 2	On APS-C Sensor Lens FOV 110-81° Converted FOV 118-92°
			22110 N120 Extension Ring 10 II		<i>* This setup is only compatible with WACP-2 before SN:A526311</i>
	22160 N120 Extension Ring 60 II	85204 N120 WACP - 2	On APS-C Sensor Lens FOV 110-81° Converted FOV 118-92°		
				<i>* This setup is only compatible with WACP-2 SN:A526311 onwards</i>	
				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		

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	CAMERA LENS	GEAR	PORT ADAPTOR	EXTENSION RING	PORT	OPTICAL PERFORMANCE	
WIDE ANGLE FULL FRAME	Canon EF 11-24mm f/4L USM	16315 + 16316 RC1124-Z + RC1124-F		22150 N120 Extension Ring 50 II	* 18815 250mm Optical Glass Wide Angle Port II	* This setup is not compatible with Extension Rings I SN:A213191 before 09/2016	
				22170 N120 Extension Ring 70 II	18812 230mm Optical Glass Wide Angle Port II	* This setup is not compatible with Extension Rings I SN:A201966 before 09/2016	
				22170 + 22171 N120 Extension Ring 70 II + Focus Knob	18812 230mm Optical Glass Wide Angle Port II		
	Canon RF 14-35mm f/4L IS USM	16342 CR1435 Gear Set		21110 N120 Extension Ring 10	85204 N120 WACP - 2	On APS-C Sensor	Lens FOV 89-42° Converted FOV 104-48°
						On Full Frame Sensor	Lens FOV 114-63° Converted FOV 140-72°
				22110 N120 Extension Ring 10 II	85204 N120 WACP - 2	On APS-C Sensor	Lens FOV 89-42° Converted FOV 104-48°
						On Full Frame Sensor	Lens FOV 114-63° Converted FOV 140-72°
				22140 N120 Extension Ring 40 II	18809 180mm Optical Glass Wide Angle Port		
				22155 N120 Extension Ring 55 II	18802 8.5" Acrylic Dome Port		
						* 18812 230mm Optical Glass Wide Angle Port II	
					18815 250mm Optical Glass Wide Angle Port II		
				Canon RF 15-30mm f/4.5-6.3 IS STM	16345 CR1530 Gear Set		
	On Full Frame Sensor	Lens FOV 110-71° Converted FOV 133-81°					
	22120 N120 Extension Ring 20 II	85201 N120 WACP - 1	On APS-C Sensor				Lens FOV 75-49° Converted FOV 130-85° Zoom Range 18-30mm
			On Full Frame Sensor				Lens FOV 75-72° Converted FOV 130-125° Zoom Range 28-30mm
22130 N120 Extension Ring 30 II	* 18809 180mm Optical Glass Wide Angle Port						
22140 N120 Extension Ring 40 II	18802 8.5" Acrylic Dome Port						
		18812 230mm Optical Glass Wide Angle Port II					
22150 N120 Extension Ring 50 II	18815 250mm Optical Glass Wide Angle Port II						
	21320 N120 to N100 20mm Port Adaptor	85205 N100 WACP - C	On APS-C Sensor	Lens FOV 75-49° Converted FOV 130-85° Zoom Range 18-30mm			

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	CAMERA LENS	GEAR	EXTENSION RING	PORT	OPTICAL PERFORMANCE			
WIDE ANGLE FULL FRAME	Canon RF 15-35mm f/2.8L IS USM	16341 CR1535 Gear Set	22135 N120 Extension Ring 35 II	85204 N120 WACP - 2	On APS-C Sensor	Lens FOV 84-42° Converted FOV 98-48°		
					On Full Frame Sensor	Lens FOV 110-63° Converted FOV 133-72°		
			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	18815 250mm Optical Glass Wide Angle Port II	
			22180 N120 Extension Ring 80 II					
	Canon EF 16-35mm f/2.8 II USM	16311 + 16312 RC1635II-Z + RC1635II-F	22130 N120 Extension Ring 30 II	85204 N120 WACP - 2	On APS-C Sensor	Lens FOV 84-44° Converted FOV 98-51°		
					On Full Frame Sensor	Lens FOV 107-63° Converted FOV 128-72°		
			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	18815 250mm Optical Glass Wide Angle Port II	
22180 N120 Extension Ring 80 II								
Canon EF 16-35mm f/2.8 III USM	16325 RC1635III Gear Set	22150 N120 Extension Ring 50 II	* 85204 N120 WACP - 2	On APS-C Sensor	Lens FOV 84-44° Converted FOV 98-51°			
				On Full Frame Sensor	Lens FOV 107-63° Converted FOV 128-72°			
		22170 N120 Extension Ring 70 II	85201 N120 WACP - 1	On APS-C Sensor	Lens FOV 71-45° Converted FOV 123-78° Zoom Range 20-35mm			
				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	18802 8.5" Acrylic Dome Port	* 18812 230mm Optical Glass Wide Angle Port II	18815 250mm Optical Glass Wide Angle Port II		
22190 N120 Extension Ring 90 II								
Canon EF 16-35mm f/4L IS USM	16317 + 16318 RC1635f4-Z + RC1635f4-F	22130 N120 Extension Ring 30 II	* 85204 N120 WACP - 2	On APS-C Sensor	Lens FOV 84-44° Converted FOV 98-51°			
				On Full Frame Sensor	Lens FOV 107-63° Converted FOV 128-72°			

\* Please refer to the following page for more setup options

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	CAMERA LENS	GEAR	EXTENSION RING	PORT	OPTICAL PERFORMANCE			
WIDE ANGLE FULL FRAME	Canon EF 16-35mm f/4L IS USM	16317 + 16318 RC1635f4-Z+ RC1635f4-F	22160 N120 Extension Ring 60 II	85201 N120 WACP - 1	On APS-C Sensor Lens FOV 71-45° Converted FOV 123-78° Zoom Range 20-35mm			
					On Full Frame Sensor Lens FOV 75-63° Converted FOV 130-109° Zoom Range 28-35mm			
	ZEISS Distagon T* 15mm f/2.8 ZM	16319 ZC15-F	22155 N120 Extension Ring 55 II	18802 8.5" Acrylic Dome Port	18809 180mm Optical Glass Wide Angle Port	* This setup is not compatible with Extension Rings I SN:A055053 before 09/2016		
							22180 N120 Extension Ring 80 II	* 18812 230mm Optical Glass Wide Angle Port II
	ZEISS Milvus 18mm f/2.8 ZE	16329 ZMC-F	22150 N120 Extension Ring 50 II	18809 180mm Optical Glass Wide Angle Port	* 18812 230mm Optical Glass Wide Angle Port II			
	ZEISS Milvus 21mm f/2.8 ZE	16329 ZMC-F	22150 N120 Extension Ring 50 II	18809 180mm Optical Glass Wide Angle Port	* 18812 230mm Optical Glass Wide Angle Port II			
	FISHEYE APSC	Tokina AT-X 107 AF DX Fisheye AF 10-17mm f/3.5-4.5	16307 + 16308 RTC1017-Z+ RTC1017-F	21110 N120 Extension Ring 10	18804 4.33" Acrylic Dome Port for Tokina 10-17mm	* 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
					22120 N120 Extension Ring 20 II		18802 8.5" Acrylic Dome Port	18812 230mm Optical Glass Wide Angle Port II
		Tokina AT-X 107 AF DX Fisheye AF with Kenko 1.4x Teleplus Pro 300 DGX	16320 + 16321 RTC1017+1.4-Z+ RTC1017+1.4-F	22120 N120 Extension Ring 20 II	22130 N120 Extension Ring 30 II	18804 4.33" Acrylic Dome Port for Tokina 10-17mm	* 18810 140mm Optical Glass Fisheye Port	
22140 N120 Extension Ring 40 II						18802 8.5" Acrylic Dome Port		18812 230mm Optical Glass Wide Angle Port II

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	CAMERA LENS	GEAR	EXTENSION RING	PORT
FISHEYE FULL FRAME	Canon EF 8-15mm f/4L Fisheye USM	<b>16301 + 16302</b> RC815-Z + RC815-F	<b>22130</b> N120 Extension Ring 30 II	<b>18802</b> 8.5" Acrylic Dome Port  <b>* 18811</b> 140mm Optical Glass Fisheye Port with Removable Shade  <b>18812</b> 230mm Optical Glass Wide Angle Port II
	Canon EF 8-15mm f/4L Fisheye USM with Kenko 1.4x Teleplus Pro 300 DGX	<b>16322 + 16323</b> RC815+1.4-Z + RC815+1.4-F	<b>22150</b> N120 Extension Ring 50 II	<b>18802</b> 8.5" Acrylic Dome Port  <b>* 18811</b> 140mm Optical Glass Fisheye Port with Removable Shade  <b>18812</b> 230mm Optical Glass Wide Angle Port II