



MID-RANGE FOCUS OPTIMIZER 1 (MFO-1)
FOCUS RANGE TO 12.5CM-114CM WITH FULL FRAME NIKON 105MM

	CAMERA LENS	GEAR	PORT ADAPTOR / EXTENSION RING	EXTENSION RING / PORT CONVERTER	PORT	MOUNT CONVERTER	WET LENS	OPTICAL PERFORMANCE
N120 CINEMA SYSTEM (RED, CANON, PANASONIC, Z-CAM, BLACKMAGIC)	MACRO FULL FRAME	Canon EF 100mm f/2.8L Macro IS USM	19523 C100S-F		18703 Macro Port 94	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	On Full Frame / APS-C Sensor Max. Magnification 1.2X Working Distance 103-1072mm
		Canon RF 100mm f/2.8L Macro IS USM	19575 CRF100-F * please contact us if SA control is needed		18703 Macro Port 94	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	On Full Frame / APS-C Sensor Max. Magnification 1.6X Working Distance 56-1072mm
N120 NIKON F-MOUNT	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 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81301 CMC-1	Max. Magnification 1.4X Working Distance 4-73mm
		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 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81302 CMC-2	Max. Magnification 1.2X Working Distance 11-123mm
N120 NIKON Z-MOUNT (Z7II/Z8/Z9)	MACRO FX	Nikkor Z MC 105mm f/2.8 VR S Macro	19161 (V1) / 19200 (V2) NZ105VR-F (V1) / Z105VR-F (V2)		18708 Macro Port 80	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 1.1X Working Distance 108-1005mm
				22120 N120 Extension Ring 20 II	18701 Macro Port 60	SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N120 NIKON Z-MOUNT (Z6III)	MACRO FX	Nikkor Z MC 105mm f/2.8 VR S Macro	19161 (V1) NZ105VR-F (V1)	22225 N120 FTZ Adaptor ER 25 with Knob	18708 Macro Port 80	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 1.1X Working Distance 108-1005mm
			19200 (V2) Z105-F (V2)	22125 N120 Extension Ring 25 II	22120 N120 Extension Ring 20 II	SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N120 CANON EF-MOUNT	MACRO FULL FRAME	Canon EF 100mm f/2.8L Macro IS USM	19523 C100S-F		18703 Macro Port 94	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 1.2X Working Distance 103-1072mm
N120 CANON RF-MOUNT	MACRO FULL FRAME	Canon RF 85mm f/2 Macro IS STM			18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 0.7X Working Distance 168-982mm
		Canon RF 100mm f/2.8L Macro IS USM	19575 + 19576 CRF100-F + SA Control Ring		18703 Macro Port 94	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 1.6X Working Distance 56-1072mm
N120 PANASONIC L-MOUNT	MACRO FULL FRAME	Sigma 105mm F2.8 DG DN Macro Art			18708 Macro Port 80	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 1.2X Working Distance 123-975mm
		Panasonic Lumix S 100mm f2.8 Macro Lens	19732 PL100-F		18701 Macro Port 60	SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N120 FUJIFILM G-MOUNT	MACRO MEDIUM FORMAT	Fujifilm GF 120mm f/4 Macro R LM OIS WR	19823 GF120-F	22160 N120 Extension Ring 60 II	18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 0.7X Working Distance 214-1050mm
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N100 SONY E-MOUNT	MACRO FULL FRAME	Sony SEL90M28G FE 90mm f/2.8 Macro G OSS	37147 SE90-F		37126 N100 Macro Port 105	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 1.2X Working Distance 106-1082mm
		Sigma 105mm F2.8 DG DN Macro Art	37166 SGE105-F		37125 N100 Macro Port 110	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 1.3X Working Distance 123-1002mm
N85 MICRO FOUR THIRDS SYSTEM	MACRO FOUR THIRDS	Olympus M.Zuiko Digital ED 60mm f2.8 Macro	36149 O60-F		36163 N85 Macro Port 65	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 1.1X Working Distance 58-1120mm
		Panasonic LEICA DG MACRO-ELMARIT 45mm F2.8 ASPH. MEGA O.I.S.	36145 P45-F		36135 N85 Macro Port 45	SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N85 MICRO FOUR THIRDS SYSTEM	TELEPHOTO MACRO FOUR THIRDS	OM System M.Zuiko Digital ED 90mm f/3.5 Macro IS PRO	36072 O90-F Focus Knob is included in packaging		36169 N85 Macro Port 120 with Focus Limit Switch Selector * optical performance at Normal Macro mode	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 1.2X Working Distance 66-1105mm
		OM System M.Zuiko Digital ED 90mm f/3.5 Macro IS PRO	36072 O90-F Focus Knob is included in packaging		36169 N85 Macro Port 120 with Focus Limit Switch Selector * optical performance at S-Macro mode	SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC	81501 MFO-1	Max. Magnification 2.1X Working Distance 39-300mm
N85 SONY E-MOUNT	MACRO FULL FRAME	Sony FE 90mm f/2.8 Macro G OSS		36204 N85 to N120 60mm Port Adaptor II * This setup is only compatible with 36204 SN-A457812 onwards, older version 36204 can be upgraded using lock mechanism 95851	18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	81501 MFO-1	Max. Magnification 1.1X Working Distance 107-1082mm
			36175 SE90-F	36205 N85 to N100 65mm Port Adaptor	37123 N100 Macro Port 55 * This setup is only compatible with 37123 SNA175724 onwards	SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		

81501
Mid-range Focus Optimizer 1

Specifications

Dimension (mm)	:	OD 70mm x 26mm
Weight in Air	:	218g
Buoyancy in Water	:	Negative 150g
Body Construction	:	Hard-anodized aluminum alloy
Lens Construction	:	3 elements in 2 groups
Lens Coating	:	Anti-reflection Coating
Working Distance	:	12.5-114cm
Magnification	:	2.4x
Mount Thread Diameter	:	M67
Depth Rating	:	100m

Package includes

- MFO-1
- Front hard lens cap
- Rear lens caps
- Neoprene Bag
- Cleaning Cloth
- M67 Spacer ring

Last Updated : 2025-2-20

* This port chart is subject to updating as new information becomes available