



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 E&F-RF-MOUNT (RED-CANON-PANASONIC-Z-CANON-BLACKMAGIC)	Canon EF 100mm f/2.8L Macro IS USM	19523 C1005-F			18703 Macro Port 94	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	On both APS-C & Full Frame 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 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N120 CINEMA SYSTEM Z-MOUNT (RED-KOMODO-X-RAPIROR(X))	Nikon AF-S Micro NIKKOR 60mm f/2.8G ED with Nikon F702 mount adaptor	TBD Gear set			18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	On both APS-C & Full Frame Sensor Max. Magnification 1.1X Working Distance 12-1120mm
	Nikkor Z MC 105mm f/2.8 VR S Macro	TBD Gear set			18708 Macro Port 80	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)		
N120 NIKON F-MOUNT	Nikon AF-S Micro NIKKOR 60mm f/2.8G ED	19121 N605-F			18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 1.1X Working Distance 12-1120mm
	Nikon AF-S VR Micro-NIKKOR 105mm f/2.8G IF-ED	19122 N105MR-F			18702 Macro Port 87	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)		
N120 NIKON Z-MOUNT (Z7II / Z8 / Z9)	Nikkor Z MC 105mm f/2.8 VR S Macro	19161 (V1) NZ105VR-F (V1)			18708 Macro Port 80	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 1.1X Working Distance 108-1005mm
						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 / Z5III)	Nikkor Z MC 105mm f/2.8 VR S Macro	19231 (V3) Z105-F0 (V3)			18711 N120 Macro port 105	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 1.1X Working Distance 108-1005mm
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N120 CANON EF-MOUNT	Canon EF 100mm f/2.8L Macro IS USM	19523 C1005-F			18703 Macro Port 94	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 1.2X Working Distance 103-1072mm
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N120 CANON RF-MOUNT	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)	B1501 MFO-1	Max. Magnification 0.7X Working Distance 168-982mm + slight vignetting appearing at 50mm
	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)		
N120 CANON STANDARD ZOOM	Canon RF 20-50 mm f/4 L IS USM CZ	19602 C2050-Z			18704 Macro Port 41	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 0.4X Working Distance 108-1130mm
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N120 CANON RF-MOUNT (C50 / F60II / F60V)	Canon RF 100mm f/2.8L Macro IS USM	19630 + 19640 RF100-F + SA Control Ring II * 19640 is not compatible with R6III			18712 Macro Port 115	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 1.6X Working Distance 56-1072mm
	Canon RF 20-50 mm f/4 L IS USM FZ	19641 RF2050-Z			18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)		
N120 PANASONIC L-MOUNT	Sigma 105mm F2.8 DG DN Macro Art			22120 N120 Extension Ring 20 II	18708 Macro Port 80	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 1.2X Working Distance 123-975mm + slight vignetting appearing at 80mm
	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	Fujifilm GF 120mm f/4 Macro R LM OIS WR	19823 GF120-F		21160 / 22160 N120 Extension Ring 60 I / II	18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 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		
N120 HASSELBLAD XCD-MOUNT	Hasseblad XCD 90mm f/2.5 V Lens	19865 XC205-C Control Ring			18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 0.3X Working Distance 400-940mm
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N100 CANON RF-MOUNT	Canon RF 100mm f/2.8L Macro IS USM		37430 N100 Extension Ring 30 II		37126 N100 Macro Port 105	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 1.6X Working Distance 56-1072mm
		19575 CRF100-F	37305 N100 to N120		18703 Macro Port 94	SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N100 CANON RF-MOUNT	Canon RF-S 18-45mm f4.5-6.3 IS STM	19596 CR1845-Z			37181 N100 Fluo Port 50	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 0.28X Working Distance 167-1110mm
						SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N100 SONY E-MOUNT	Sony SELP0428G 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)	B1501 MFO-1	Max. Magnification 1.2X Working Distance 106-1082mm
	Sony FE 100mm f/2.8 Macro GM	37182 SE100-F			37180 N100 Macro Port 125	SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
N100 SONY E-MOUNT	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)	B1501 MFO-1	Max. Magnification 1.3X Working Distance 123-1002mm + slight vignetting appearing at 80mm
			37305 N100 to N120 35.5mm Port Adaptor II * This setup is only compatible with 37305 SN:A44975 onwards, older version 37305 can be upgraded using lock mechanism 15851	22120 N120 Extension Ring 20 II	18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)		
N85 MICRO FOUR THIRDS SYSTEM	Olympus M.Zuiko Digital ED 60mm f2.8 Macro	36149 O60-F		36620 N85 Extension Ring 20	26163 N85 Macro Port 65	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 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		
TELEPHOTO MACRO FOUR THIRDS	OM System M.Zuiko Digital ED 90mm f3.5 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)	B1501 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		
NBSSONY E-MOUNT	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:A45781 onwards, older version 36204 can be upgraded using lock mechanism 15851		18701 Macro Port 60	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 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 SN:A179724 onwards	SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
NS0.8 COMPACT SYSTEM	Canon PowerShot V1 Digital Camera (1734S NA-CV1) * 16-50mm (35mm equivalent) * Port is exchangeable for this housing				18703 Macro Port 94	SMC/CMC Option 1 - M67 Thread 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging)	B1501 MFO-1	Max. Magnification 1.5X Working Distance 62-1020mm
	Canon EOS R50 with RF-S 18-45 f4.5-6.3 IS STM Lens (17340 /17340P NA-R50 / Pro Package) * Port is exchangeable for this housing					SMC/CMC Option 2 - Bayonet Mount 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC		
PANASONIC	Panasonic Lumix DC-L10 (17723 NA-L10) * 24-75mm (35mm equivalent) * Port is exchangeable for this housing					32107 M67 Flip Dooper Holder	B1501 MFO-1	Smallest Subject Size Working Distance 100 + 81.2mm 210-1200 mm

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Mid-range Focus Optimizer 1

Specifications

Dimension (mm)	:	OD 70x 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 : 2026-07-24

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