



## 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)	Canon EF 100mm f/2.8L Macro IS USM	19523 C100S-F			18703 Macro Port 94	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	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 <i>* please contact us if SA control is needed</i>			18703 Macro Port 94	SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
N120 NIKON F-MOUNT MACRO FX	Nikon AF-S Micro NIKKOR 60mm f/2.8G ED	19121 N60G-F			18701 Macro Port 60	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	On Full Frame / APS-C Sensor Max. Magnification 1.2X Working Distance 103-1072mm
	Nikon AF-S VR Micro-NIKKOR 105mm f/2.8G IF-ED	19122 N105VR-F			18702 Macro Port 87	SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
N120 NIKON Z-MOUNT (Z7II/Z8/Z9)	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/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 1.1X Working Distance 108-1005mm
			22120 N120 Extension Ring 20 II		18701 Macro Port 60	SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
N120 NIKON Z-MOUNT (Z6III)	Nikkor Z MC 105mm f/2.8 VR S Macro	19161 (V1) NZ105VR-F (V1) 19200 (V2) Z105-F (V2)	22225 N120 FTZ Adaptor ER 25 with Knob		18708 Macro Port 80	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 1.1X Working Distance 108-1005mm
			22125 N120 Extension Ring 25 II	22120 N120 Extension Ring 20 II	18701 Macro Port 60	SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
N120 CANON EF-MOUNT MACRO FULL FRAME	Canon EF 100mm f/2.8L Macro IS USM	19523 C100S-F			18703 Macro Port 94	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 1.2X Working Distance 103-1072mm
	Canon RF 100mm f/2.8L Macro IS USM	19575 + 19576 CRF100-F + SA Control Ring			18703 Macro Port 94	SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
N120 CANON RF-MOUNT MACRO FULL FRAME	Canon RF 85mm f/2 Macro IS STM				18701 Macro Port 60	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 0.7X Working Distance 168-982mm <i>* More than 550mm with slight vignetting</i>
	Canon RF 100mm f/2.8L Macro IS USM	19575 + 19576 CRF100-F + SA Control Ring			18703 Macro Port 94	SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
N120 PANASONIC L-MOUNT MACRO FULL FRAME	Sigma 105mm F2.8 DG DN Macro Art				18708 Macro Port 80	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 1.2X Working Distance 123-975mm <i>* More than 430mm with slight vignetting</i>
	Panasonic Lumix S 100mm f2.8 Macro Lens	19732 PL100-F		22120 N120 Extension Ring 20 II	18701 Macro Port 60	SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
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/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 0.7X Working Distance 214-1050mm
						SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
N100 CANON RF-MOUNT STANDARD ZOOM APS-C	Canon RF-S 18-45mm f4.5-6.3 IS STM	19596 CR1845-Z			37181 N100 Flat Port 50	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 0.28X Working Distance 167-1110mm
						SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
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/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	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/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>		
			37305 N100 to N120 35.5mm Port Adaptor II <i>* This setup is only compatible with 37305 SNA54975 onwards, older version 37305 can be upgraded using lock mechanism 95851</i>	22120 N120 Extension Ring 20 II	18701 Macro Port 60	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 1.2X Working Distance 123-975mm <i>* More than 430mm with slight vignetting</i>
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/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 1.1X Working Distance 58-1120mm
				36620 N85 Extension Ring 20	36135 N85 Macro Port 45	SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
	Panasonic LEICA DG MACRO-ELMARIT 45mm F2.8 ASPH. MEGA O.I.S.	36145 P45-F			36135 N85 Macro Port 45	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 1.1X Working Distance 37-1120mm
TELEPHOTO MACRO FOUR THIRDS	OM System M.Zuiko Digital ED 90mm f/3.5 Macro IS PRO	36072 O90-F <i>Focus Knob is included in packaging</i>			36169 N85 Macro Port 120 with Focus Limit Switch Selector <i>* optical performance at Normal Macro mode</i>	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	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 <i>Focus Knob is included in packaging</i>			36169 N85 Macro Port 120 with Focus Limit Switch Selector <i>* optical performance at S-Macro mode</i>	SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
N85SONY E-MOUNT MACRO FULL FRAME	Sony FE 90mm f/2.8 Macro G OSS		36204 N85 to N120 60mm Port Adaptor II <i>* This setup is only compatible with 36204 SNA457812 onwards, older version 36204 can be upgraded using lock mechanism 95851</i>		18701 Macro Port 60	SMC/C/MC Option 1 - M67 Thread <b>81228</b> M67 Spacer Ring for SMC/C/MC <i>(included in all SMC/C/MC packaging)</i>	81501 MFO-1	Max. Magnification 1.1X Working Distance 107-1082mm
		36175 SFE90-F	36205 N85 to N100 65mm Port Adaptor		37123 N100 Macro Port 55 <i>* This setup is only compatible with 37123 SNA175724 onwards</i>	SMC/C/MC Option 2 - Bayonet Mount <b>83250 + 83214</b> M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/C/MC		
N50 & COMPACT SYSTEM CANON	Canon PowerShot V1 Digital Camera (17343 NA-CV1)				38703 N50 Short Port 25 with Bayonet Mount <i>* change port from housing</i>	83214 Bayonet Mount Adaptor for SMC/C/MC	81501 MFO-1	Max. Magnification 0.28X Working Distance 89 x 59.3mm 116-1150mm
	Canon EOS R50 with RF-S 18-45 F4.5-6.3 IS STM Lens (17340 /17340P NA-R50 / Pro Package)					83214 Bayonet Mount Adaptor for SMC/C/MC	81501 MFO-1	Max. Magnification 0.28X Working Distance 167-1110mm

#### 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