



EXTENDED MACRO WIDE LENS EMWL WATER CONTACT MODULAR DESIGN RELAY LENS SYSTEM

| | CAMERA LENS | GEAR | EXTENSION RING | PORT | MOUNT CONVERTER | EMWL | OPTICAL PERFORMANCE | |
|----------------------------|-------------------------------|--|--|---|-------------------------------|---|--|--|
| N120 CINEMA SYSTEM | MACRO FULL FRAME | Canon EF 100mm f/2.8L Macro IS USM | 19523 C100IS-F | | 18703 Macro Port 94 | 83250 M67 to Bayonet Mount Converter II | 87302 On Full Frame Sensor EMWL Set #2 <i>(incl. focusing unit #2, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | 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 | 83250 M67 to Bayonet Mount Converter II | 87302 On Full Frame Sensor EMWL Set #2 <i>(incl. focusing unit #2, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 24° Converted FOV 60°/100°/130°/160° |
| N120 NIKON F-MOUNT | MACRO FX | Nikon AF-S Micro NIKKOR 60mm f-2.8G ED with HOYA +4 Diopter <i>* This setup can only be use on DX sensor camera</i> | 19121 N60G-F | | 18701 Macro Port 60 | 83250 M67 to Bayonet Mount Converter II | 87303 On DX Sensor EMWL Set #3 <i>(incl. focusing unit #3, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 26.5° Converted FOV 60°/100°/130°/160° |
| | | Nikon AF-S VR Micro-NIKKOR 105mm f/2.8G IF-ED | 19122 N105VR-F | | 18702 Macro Port 87 | 83250 M67 to Bayonet Mount Converter II | 87301 EMWL Set #1 <i>(incl. focusing unit #1, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 23.3° Converted FOV 60°/100°/130°/160° |
| | | Sigma 105mm F2.8 EX DG OS HSM Macro | 19147 SN105-F | 22135 N120 Extension Ring 35 II | 18701 Macro Port 60 | 83250 M67 to Bayonet Mount Converter II | 87302 EMWL Set #2 <i>(incl. focusing unit #2, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 23° Converted FOV 60°/100°/130°/160° |
| N120 NIKON Z-MOUNT | MACRO FX | Nikkor Z MC 105mm f/2.8 VR S Macro | 19161 NZ105VR-F | | 18708 Macro Port 80 | 83250 M67 to Bayonet Mount Converter II | 87302 EMWL Set #2 <i>(incl. focusing unit #2, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 23° Converted FOV 60°/100°/130°/160° |
| | | | | 22120 N120 Extension Ring 20 II | 18701 Macro port 60 | 83250 M67 to Bayonet Mount Converter II | 87302 EMWL Set #2 <i>(incl. focusing unit #2, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 23° Converted FOV 60°/100°/130°/160° |
| N120 CANON EF-MOUNT | MACRO APS-C FULL FRAME | Canon EF-S 60mm f2.8 Macro USM | 19521 C60-F | | 18704 Macro Port 41 | 83250 M67 to Bayonet Mount Converter II | 87302 EMWL Set #2 <i>(incl. focusing unit #2, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 24.5° Converted FOV 60°/100°/130°/160° |
| | | Canon EF 100mm f2.8 Macro USM | 19522 C100-F | | 18702 Macro Port 87 | 83250 M67 to Bayonet Mount Converter II | 87301 EMWL Set #1 <i>(incl. focusing unit #1, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 24° Converted FOV 60°/100°/130°/160° |
| | | Canon EF 100mm f/2.8L Macro IS USM | 19523 C100IS-F | | 18703 Macro Port 94 | 83250 M67 to Bayonet Mount Converter II | 87302 EMWL Set #2 <i>(incl. focusing unit #2, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 23.4° Converted FOV 60°/100°/130°/160° |
| N120 CANON RF-MOUNT | MACRO FULL FRAME | Sigma 105mm F2.8 EX DG OS HSM Macro | 19553 SC105-F | 22130 N120 Extension Ring 30 II | 18701 Macro Port 60 | 83250 M67 to Bayonet Mount Converter II | 87301 EMWL Set #1 <i>(incl. focusing unit #1, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 24° Converted FOV 60°/100°/130°/160° |
| | | Canon RF 100mm f/2.8L Macro IS USM | 19575 + 19576 CRF100-F + SA Control Ring | | 18703 Macro Port 94 | 83250 M67 to Bayonet Mount Converter II | 87302 EMWL Set #2 <i>(incl. focusing unit #2, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 24° Converted FOV 60°/100°/130°/160° |
| N120 CANON RF-MOUNT | MACRO FULL FRAME | | | | | | 87303 EMWL Set #3 <i>(incl. focusing unit #3, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 24° Converted FOV 60°/100°/130°/160° |
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| | CAMERA LENS | GEAR | EXTENSION RING | PORT | MOUNT CONVERTER | EMWL | OPTICAL PERFORMANCE |
|--|---|------------------|------------------------------------|------------------------------|--|--|--|
| N120 FUJIFILM G-MOUNT MACRO MEDIUM FORMAT | Fujifilm GF 120mm f/4 Macro R LM OIS WR with HOYA +2 Close Up Diopter | 19823 GF120-F | 22170 N120 Extension Ring 70 II | 18701 Macro Port 60 | 83250 M67 to Bayonet Mount Converter II | 87302 EMWL Set #2 <i>(incl. focusing unit #2, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 25.7° Converted FOV 60°/100°/130°/160° |
| | | | | | | | |
| N120 PANASONIC L-MOUNT MACRO FULL FRAME | Sigma 105mm F2.8 DG DN Macro Art | | 22120 N120 Extension Ring 20 II | 18708 Macro Port 80 | 83250 M67 to Bayonet Mount Converter II | 87301 EMWL Set #1 <i>(incl. focusing unit #1, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 23.3° Converted FOV 60°/100°/130°/160° |
| | | | | 18701 Macro Port 60 | 83250 M67 to Bayonet Mount Converter II | 87301 EMWL Set #1 <i>(incl. focusing unit #1, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 23.3° Converted FOV 60°/100°/130°/160° |
| N100 SONY E-MOUNT MACRO FULL FRAME | Sony SEL90M28G FE 90mm F2.8 Macro G OSS | 37147 SE90-F | | 37126 N100 Macro Port 105 | 83250 M67 to Bayonet Mount Converter II | 87303 EMWL Set #3 <i>(incl. focusing unit #3, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 27° Converted FOV 60°/100°/130°/160° |
| N85 MICRO FOUR THIRDS MACRO FOUR THIRDS | Olympus M.Zuiko Digital ED 60mm f2.8 Macro | 36149 O60-F | 36620 N85 Extension Ring 20 | 36163 N85 Macro Port 65 | 83250 M67 to Bayonet Mount Converter II | 87301 EMWL Set #1 <i>(incl. focusing unit #1, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 20° Converted FOV 60°/100°/130°/160° |
| | | | | 36135 N85 Macro Port 45 | 83250 M67 to Bayonet Mount Converter II | 87301 EMWL Set #1 <i>(incl. focusing unit #1, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 20° Converted FOV 60°/100°/130°/160° |
| | Panasonic LEICA DG MACRO-ELMARIT 45mm F2.8 ASPH. MEGA O.I.S. | 36145 P45-F | | 36135 N85 Macro Port 45 | 83250 M67 to Bayonet Mount Converter II | 87303 EMWL Set #3 <i>(incl. focusing unit #3, 150mm relay lens & 3 objective lenses - 60°,100° & 130°)</i> | Lens FOV 20° Converted FOV 60°/100°/130°/160° |

| Focusing Units | #87201 Focusing Unit #1 | #87202 Focusing Unit #2 | #87203 Focusing Unit #3 |
|-----------------------|--------------------------------|--------------------------------|--------------------------------|
| Optical Design | 6 elements in 3 groups | 6 elements in 3 groups | 6 elements in 3 groups |
| Bayonet | Nauticam bayonet mount | Nauticam bayonet mount | Nauticam bayonet mount |
| Largest Diameter | 96mm | 96mm | 96mm |
| Length | 83.4mm | 71.4mm | 66.9mm |
| Weight | In air 740g / In water 480g | In air 627g / In water 400g | In air 616g / In water 410g |
| Depth Rating | 150m | 150m | 150m |
| Lens Body | Hard anodized aluminium alloy | Hard anodized aluminium alloy | Hard anodized aluminium alloy |
| Lens Coating | Anti-reflection | Anti-reflection | Anti-reflection |

| Relay Lens | #87211 Relay Lens 150mm |
|-------------------|--------------------------------|
| Optical Design | 14 elements in 10 groups |
| Bayonet | Nauticam bayonet mount |
| Largest Diameter | 62mm |
| Length | 164.5mm |
| Weight | In air 592g / In water 320g |
| Depth Rating | 150m |
| Lens Body | Hard anodized aluminium alloy |
| Lens Coating | Anti-reflection |

| Objective Lenses | #87221 Objective Lens 60° | #87222 Objective Lens 100° | #87223 Objective Lens 130° | #87226 Objective Lens 160° |
|-------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Optical Design | 9 elements in 6 groups | 9 elements in 6 groups | 9 elements in 6 groups | 9 elements in 6 groups |
| Focus Range | 15 mm to ∞ | 15 mm to ∞ | 10 mm to ∞ | 15 mm to ∞ |
| Bayonet | Nauticam bayonet mount | Nauticam bayonet mount | Nauticam bayonet mount | Nauticam bayonet mount |
| Largest Diameter | 62mm | 62mm | 62mm | 62mm |
| Length | 97.0mm | 88.5mm | 123.2mm | 81.5mm |
| Weight | In air 378g / In water 260g | In air 218g / In water 130g | In air 510g / In water 290g | In air 235g / In water 145g |
| Depth Rating | 150m | 150m | 150m | 150m |
| Lens Body | Hard anodized aluminium alloy | Hard anodized aluminium alloy | Hard anodized aluminium alloy | Hard anodized aluminium alloy |
| Lens Coating | Anti-reflection | Anti-reflection | Anti-reflection | Anti-reflection |

| Accessories | |
|--------------------|--|
| # 87501 | EMWL Flip Holder |
| # 83250 | M67 to Bayonet Converter II |
| # 87512 | Lens Hood for Objective Lens 130° |
| # 87513 | Lens Hood for Objective Lens 100° |
| # 87516 | EMWL Bayonet Holder for Ø70 Float Arm |
| # 87517 | EMWL Bayonet Holder for Ø90 Float Arm |
| # 87518 | Strobe Mounting Brackets for EMWL Relay Lens |