N85 MICRO FOUR THIRDS SYSTEM FOR MICRO FOUR THIRD CAMERA SYSTEMS

Columns: CAMERA LENS | GEAR | PORT ADAPTOR | EXTENSION RING | PORT | MOUNT CONVERTER | WET LENS | OPTICAL PERFORMANCE

MACRO (FOUR THIRDS)

Olympus M.Zuiko Digital ED 30mm f3.5 Macro
- 36135 N85 Macro Port 45 → 83250 M67 to Bayonet Mount Converter II *(included in all MWL-1 packaging)* → 86201 MWL - 1 → Lens FOV 39°, Converted FOV 150°

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)*
    - SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC
      - 81301 CMC - 1 → Max. Magnification 2.0X, Working Distance 22-70mm
      - 81302 CMC - 2 → Max. Magnification 1.7X, Working Distance 33-122mm
      - 81203 SMC-3 → Max. Magnification 1.6X, Working Distance 30-93mm
      - 81501 MFO-1 → Max. Magnification 1.1X, Working Distance 58-1120mm
      - 81503 MFO-3 → Max. Magnification 0.5X, Working Distance 0-1500mm, Lens FOV 20°, Converted FOV 33°
  - 36620 N85 Extension Ring 20 → 36135 N85 Macro Port 45 → 83250 M67 to Bayonet Mount Converter II → 87301 EMWL Set #1 → Lens FOV 20°, Converted FOV 60°/100°/130°/160°

Panasonic Lumix G Macro 30mm f/2.8 Asph. Mega O.I.S.
- 36135 N85 Macro Port 45 → 83250 M67 to Bayonet Mount Converter II *(included in all MWL-1 packaging)* → 86201 MWL - 1 → Lens FOV 39°, Converted FOV 150°

Panasonic LEICA DG MACRO-ELMARIT 45mm F2.8 ASPH. MEGA O.I.S.
- 36145 P45-F → 36135 N85 Macro Port 45
  - SMC/CMC Option 1 - M67 Thread: 81228 M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)*
  - SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC
    - 81301 CMC - 1 → Max. Magnification 1.6X, Working Distance 17-73mm
    - 81302 CMC - 2 → Max. Magnification 1.4X, Working Distance 23-124mm
    - 81203 SMC - 3 → Max. Magnification 1.5X, Working Distance 20-101mm
    - 81501 MFO-1 → Max. Magnification 1.1X, Working Distance 37-1120mm
    - 81503 MFO-3 → Max. Magnification 0.4X, Working Distance 0-1500mm, Lens FOV 27°, Converted FOV 45°
  - 83250 M67 to Bayonet Mount Converter II → 87303 EMWL Set #3 → Lens FOV 20°, Converted FOV 60°/100°/130°/160°

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)
  - Max. Magnification 1.1X, Working Distance 103mm-∞
  - 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
    - 81503 MFO-3 → Max. Magnification 0.7X, Working Distance 0-1480mm, Lens FOV 14°, Converted FOV 23°
  - SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC
    - 81203 SMC - 3 → Max. Magnification 1.8X, Working Distance 32-100mm
    - 81302 CMC - 2 → Max. Magnification 1.4X, Working Distance 50-120mm
    - 81301 CMC - 1 → Max. Magnification 1.6X, Working Distance 40-68mm

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)
  - Max. Magnification 2.2X, Working Distance 73-500mm
  - SMC/CMC Option 1 - M67 Thread: 81228 M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)*
    - 81501 MFO-1 → Max. Magnification 2.1X, Working Distance 39-300mm
  - SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC
    - 81203 SMC - 3 → Max. Magnification 2.9X, Working Distance 20-74mm
    - 81302 CMC - 2 → Max. Magnification 1.9X, Working Distance 30-86mm
    - 81301 CMC - 1 → Max. Magnification 2.2X, Working Distance 20-52mm

OM System M.Zuiko Digital ED 90mm f/3.5 Macro IS PRO with M.Zuiko Digital MC-20 2.0x Teleconverter
- 36072 O90-F (* Focus Knob is included in packaging) → 36626 N85 Extention Ring 26 → 36169 N85 Macro Port 120 with Focus Limit Switch Selector
  - Max. Magnification 2.2X, Working Distance 103mm-∞ (* optical performance at Normal Macro mode)
  - Max. Magnification 4.3X, Working Distance 73-500mm (* optical performance at S-Macro mode)

OM System M.Zuiko Digital ED 90mm f/3.5 Macro IS PRO with M.Zuiko Digital MC-14 1.4x Teleconverter
- 36617 N85 Extension Ring 17 → 36169 N85 Macro Port 120 with Focus Limit Switch Selector (* manual focus is not supported)
  - Max. Magnification 1.5X, Working Distance 103mm-∞ (* optical performance at Normal Macro mode)
  - Max. Magnification 2.9X, Working Distance 73-500mm (* optical performance at S-Macro mode)

STANDARD ZOOM (FOUR THIRDS)

Olympus M.ZUIKO DIGITAL ED 12-40mm f/2.8 PRO
- 36045 O1240-Z
  - 36129 N85 7" Acrylic Dome Port
  - 36052 N85 to N120 47mm Port Adaptor with Zoom Knob (* SN297188 onwards for NA-EM1X)
    - * 85206 N120/N100 WACP - 1B → Lens FOV 75-45°, Converted FOV 130-68°, Zoom Range 14-26mm
    - 22120 N120 Extension Ring 20 II → * 18809 180mm Optical Glass Wide Angle Port
- 36045 + 36065 O1240-Z + O1240-F → 36401 N85 to N120 55mm Port Adaptor with Lens Control Knob (* SN393297 onwards for NA-EM1X; * This setup is only compatible with 36401 SN:A427960 onwards, older version 36401 can be upgraded using lock mechanism 95851)
  - * 85206 N120/N100 WACP - 1B → Lens FOV 75-38°, Converted FOV 130-57°, Zoom Range 14-32mm
  - 18809 180mm Optical Glass Wide Angle Port

Olympus M.ZUIKO DIGITAL ED 12-45mm f/4 PRO
- 36069 O1245-Z
  - 36129 N85 7" Acrylic Dome Port
  - 36630 N85 Extension Ring 30 → 36135 N85 Macro Port 45
    - SMC/CMC Option 1 - M67 Thread: 81228 M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)* → 81301 CMC - 1 → Max. Magnification 0.7X, Working Distance 24-74mm
    - SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC → 81302 CMC - 2 → Max. Magnification 0.5X, Working Distance 39-130mm
  - 36401 N85 to N120 55mm Port Adaptor with Lens Control Knob (* SN393297 onwards for NA-EM1X; * This setup is only compatible with with 36401 SN:A427960 onwards, older version 36401 can be upgraded using lock mechanism 95851) → * 18809 180mm Optical Glass Wide Angle Port
  - 36064 N85 to N120 34.7mm Port Adaptor (* these setups are not compatible with NA-EM1X; * This setup is only compatible with with 36064 SN:A329817 onwards, older version 36064 can be upgraded using lock mechanism 95851) → * 85206 N120/N100 WACP - 1B → Lens FOV 75-45°, Converted FOV 130-58°, Zoom Range 14-29mm
- 36069 + 36070 O1240-Z + O1240-F → 36052 N85 to N120 47mm Port Adaptor with Zoom Knob (* SN297188 onwards for NA-EM1X) → 18809 180mm Optical Glass Wide Angle Port

Olympus M.Zuiko Digital ED 12-50mm f/3.5-6.3 EZ
- 36137 N85 4" Acrylic Wide Angle Port
- 36147 O1250-Z → 36161 N85 Macro Port with M77 Thread (* 36167 Gear Set for NA-OM1)
  - 83251 M77 to Bayonet Mount Converter II
    - 86201 MWL - 1 → Lens FOV 39-34°, Converted FOV 150-71°, Zoom Range 30-50mm
    - * 83203 WWL-C → Lens FOV 72-24°, Converted FOV 110-37°, Zoom Range 14-50mm
  - 83251 + 83214 M77 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC
    - 81301 CMC - 1 → Max. Magnification 0.8X, Working Distance 14-61mm
    - 81302 CMC - 2 → Max. Magnification 0.7X, Working Distance 24-95mm

Olympus M.Zuiko Digital 14-42mm f/3.5-5.6 II R
- 36143 O1442-Z
  - 36137 N85 4" Acrylic Wide Angle Port
  - 36136 N85 Macro Port 56
    - SMC/CMC Option 1 - M67 Thread: 81228 M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)* → 81301 CMC - 1 → Max. Magnification 0.8X, Working Distance 41-76mm
    - SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC → 81302 CMC - 2 → Max. Magnification 0.6X, Working Distance 63-130mm
    - 83250 M67 to Bayonet Mount Converter II → 83202 WWL - 1B → Lens FOV 75-29°, Converted FOV 130-50°

Olympus M.Zuiko Digital 14-42mm f/3.5-5.6 EZ
- 36047 O1442EZ-Z → 36165 N85 Power Zoom Macro Port 29
  - 83250 M67 to Bayonet Mount Converter II → 83202 WWL - 1B → Lens FOV 75-29°, Converted FOV 130-50°
  - SMC/CMC Option 1 - M67 Thread: 81228 M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)* → 81301 CMC - 1 → Max. Magnification 0.8X, Working Distance 41-76mm
  - SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC → 81302 CMC - 2 → Max. Magnification 0.6X, Working Distance 63-130mm

Panasonic LUMIX G VARIO 12-32mm F3.5-5.6 ASPH. ASPH. MEGA O.I.S.
- 36046 P1232-Z → 36165 N85 Power Zoom Macro Port 29 → 83250 M67 to Bayonet Mount Converter II
  - 83202 WWL - 1B → Lens FOV 75-37°, Converted FOV 130-64°, Zoom Range 13-32mm
  - * 83203 WWL-C → Lens FOV 84-37°, Converted FOV 130-57°

Panasonic LUMIX G X Vario 12-35mm F2.8 I/ II ASPH. POWER O.I.S.
- 36148 P1235-Z
  - 36133 N85 6" Acrylic Wide Angle Port
  - 36064 N85 to N120 34.7mm Port Adaptor (* these setups are not compatible with NA-EM1X; * This setup is only compatible with with 36064 SN:A329817 onwards, older version 36064 can be upgraded using lock mechanism 95851) → * 85206 N120/N100 WACP - 1B → Lens FOV 75-52°, Converted FOV 130-90°, Zoom Range 14-22mm
- 36148 + 36042 P1235-Z + P1235-F
  - 36164 N85 6" Acrylic Wide Angle Port with Focus Knob
  - 36052 N85 to N120 47mm Port Adaptor with Zoom Knob (* SN297188 onwards for NA-EM1X)
    - * 85206 N120/N100 WACP - 1B → Lens FOV 75-40°, Converted FOV 130-69°, Zoom Range 14-30mm
    - 22120 N120 Extension Ring 20 II → * 18809 180mm Optical Glass Wide Angle Port

Panasonic LEICA DG VARIO-ELMARIT 12-60mm F2.8-4.0 ASPH. POWER O.I.S.
- 36058 PL1260-Z → 36129 N85 7" Acrylic Dome Port

Panasonic LUMIX G Vario 14-42mm F3.5-5.6 ASPH. MEGA O.I.S.
- 36141 P1442-Z → 36137 N85 4" Acrylic Wide Angle Port

Panasonic LUMIX G Vario 14-42mm F3.5-5.6 II ASPH. MEGA O.I.S.
- 36057 P1442II-Z → 36139 N85 Flat Port 35
  - SMC/CMC Option 1 - M67 Thread: 81228 M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)* → 81301 CMC - 1 → Max. Magnification 0.7X, Working Distance 49-72mm
  - SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC → 81302 CMC - 2 → Max. Magnification 0.6X, Working Distance 77-122mm
  - 83250 M67 to Bayonet Mount Converter II → 83202 WWL - 1B → Lens FOV 75-29°, Converted FOV 130-50°

Panasonic LUMIX G Vario PZ 14-42mm F3.5-5.6 ASPH. POWER O.I.S.
- 36061 P1442X-PZ (* SN353928 onwards only) → 36165 N85 Power Zoom Macro Port 29
  - SMC/CMC Option 1 - M67 Thread: 81228 M67 Spacer Ring for SMC/CMC *(included in all SMC/CMC packaging)* → 81301 CMC - 1 → Max. Magnification 0.7X, Working Distance 49-72mm
  - SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC → 81302 CMC - 2 → Max. Magnification 0.6X, Working Distance 77-122mm
  - 83250 M67 to Bayonet Mount Converter II → 83202 WWL - 1B → Lens FOV 75-29°, Converted FOV 130-50°

Panasonic LUMIX G Vario 14-45mm F3.5-5.6 ASPH. MEGA O.I.S.
- 36053 P1445-Z → 36137 N85 4" Acrylic Wide Angle Port

WIDE ANGLE (FOUR THIRDS)

Olympus M.ZUIKO DIGITAL ED 7-14mm f/2.8 PRO
- 36054 + 36055 O714-Z + O714-F → 36401 N85 to N120 55mm Port Adaptor with Lens Control Knob (* SN393297 onwards for NA-EM1X; * This setup is only compatible with with 36401 SN:A427960 onwards, older version 36401 can be upgraded using lock mechanism 95851) → 18809 180mm Optical Glass Wide Angle Port (* slight vignetting at 7mm when shooting RAW on GH5S)

Olympus M.ZUIKO DIGITAL ED 8-25mm f4 PRO
- 36071 O825-Z
  - 36401 N85 to N120 55mm Port Adaptor with Lens Control Knob (* SN393297 onwards for NA-EM1X; * This setup is only compatible with with 36401 SN:A427960 onwards, older version 36401 can be upgraded using lock mechanism 95851)
    - 22140 N120 Extension Ring 40 II → 18809 180mm Optical Glass Wide Angle Port
    - 22120 N120 Extension Ring 20 II → * 85206 N120/N100 WACP - 1B → Lens FOV 75-47°, Converted FOV 130-81°, Zoom Range 14-25mm
  - 36064 N85 to N120 34.7mm Port Adaptor (* This setup is only compatible with 36064 SN:A329817 onwards, older version 36064 can be upgraded using lock mechanism 95851)
    - 22160 N120 Extension Ring 60 II → 18809 180mm Optical Glass Wide Angle Port
    - 22140 N120 Extension Ring 40 II (* these setups are not compatible with NA-EM1X) → * 85206 N120/N100 WACP - 1B → Lens FOV 75-47°, Converted FOV 130-81°, Zoom Range 14-25mm

Olympus M.ZUIKO DIGITAL ED 9-18mm f/4-5.6
- 36143 O918-Z
  - 36137 N85 4" Acrylic Wide Angle Port
  - 36052 N85 to N120 47mm Port Adaptor with Zoom Knob (* SN297188 onwards for NA-EM1X) → 22120 N120 Extension Ring 20 II → * 18809 180mm Optical Glass Wide Angle Port
  - 36401 N85 to N120 55mm Port Adaptor with Lens Control Knob (* SN393297 onwards for NA-EM1X; * This setup is only compatible with with 36401 SN:A427960 onwards, older version 36401 can be upgraded using lock mechanism 95851) → * 18809 180mm Optical Glass Wide Angle Port

Olympus M.ZUIKO DIGITAL ED 12mm f/2.0
- 36132 N85 4.33" Acrylic Fisheye Dome Port (* this setup is not compatible with NA-EM1X)
- 36620 N85 Extension Ring 20 → * 36048 N85 140mm Optical Glass Fisheye Port
- 36168 N85 Pancake Port 24 (* This setup is only compatible with 36168 SN from A579559 to A579561) → 83250 M67 to Bayonet Mount Converter II → 83203 WWL-C → Lens FOV 84°, Converted FOV 130°
- 36168 N85 Pancake Port 24 (* This setup is only compatible with 36168 SN:A617926 onwards) → 83250 M67 to Bayonet Mount Converter II → 83203 WWL-C → Lens FOV 84°, Converted FOV 130°

Panasonic LUMIX G Vario 7-14mm F4.0 ASPH.
- 36044 P714-Z → 36133 N85 6" Acrylic Wide Angle Port
- 36044 + 36043 P714-Z + P714-F
  - 36164 N85 6" Acrylic Wide Angle Port with Focus Knob
  - 36052 N85 to N120 47mm Port Adaptor with Zoom Knob (* SN297188 onwards for NA-EM1X) → * 18809 180mm Optical Glass Wide Angle Port (* slight vignetting at 7mm when shooting RAW on GH5S)

Panasonic LEICA DG VARIO-ELMARIT 8-18mm F2.8-4.0 ASPH.
- 36062 PL818-Z → 36129 N85 7" Acrylic Dome Port
- 36062 + 36063 PL818-Z + PL818-F → 36401 N85 to N120 55mm Port Adaptor with Lens Control Knob (* SN393297 onwards for NA-EM1X; * This setup is only compatible with with 36401 SN:A427960 onwards, older version 36401 can be upgraded using lock mechanism 95851) → 22120 N120 Extension Ring 20 II → * 18809 180mm Optical Glass Wide Angle Port

FISHEYE (FOUR THIRDS)

Olympus M.Zuiko Digital ED 8mm f/1.8 Fisheye PRO
- 36056 O8-F
  - 36617 N85 Extension Ring 17 → * 36048 N85 140mm Optical Glass Fisheye Port
  - 36620 N85 Extension Ring 20 → 36132 N85 4.33" Acrylic Fisheye Dome Port

Panasonic LUMIX G FISHEYE 8mm F3.5
- 36041 P8-F
  - * 36048 N85 140mm Optical Glass Fisheye Port (* slightly vignetting in 4:3 aspect ratio)
  - 36132 N85 4.33" Acrylic Fisheye Dome Port

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.

- * (blue) Recommended Nauticam underwater optics based on best underwater optical performance
- * Recommended Port System

Last Updated : 2026-03-27

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