# N120 CINEMA PORT SYSTEM FOR EF & RF-MOUNT CAMERA SYSTEM

**( RED, CANON, PANASONIC, Z-CAM, BLACKMAGIC )**

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

## MACRO – APS-C

**Canon EF-S 60mm f2.8 Macro USM** — 19521 C60-F — 18704 Macro Port 41
- SMC/CMC Option 1 - M67 Thread: 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging) — 81302 CMC - 2 — On APS-C Sensor: Max. Magnification 1.6X; Working Distance 38-120mm
- SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC — 81201 SMC - 1 — On APS-C Sensor: Max. Magnification 1.6X; Working Distance 28-94mm

## MACRO – FULL FRAME

**Canon EF 100mm f/2.8L Macro IS USM** — 19523 C100IS-F — 18703 Macro Port 94
- SMC/CMC Option 1 - M67 Thread: 81228 M67 Spacer Ring for SMC/CMC (included in all SMC/CMC packaging) — 81201 SMC - 1 — On APS-C Sensor: Max. Magnification 2.1X; Working Distance 45-95mm
- SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC — 81202 SMC - 2 — On APS-C Sensor: Max. Magnification 3.4X; Working Distance 23-39mm
- 83250 M67 to Bayonet Mount Converter II — 87302 EMWL Set #2 — On Full Frame Sensor: Lens FOV 23.4°; Converted FOV 60°/100°/130°/160°

**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)
  - 81201 SMC - 1 — On APS-C Sensor: Max. Magnification 2.3X; Working Distance 29-80mm
  - 81202 SMC - 2 — On APS-C Sensor: Max. Magnification 3.3X; Working Distance 16-35mm
  - 81301 CMC - 1 — On APS-C Sensor: Max. Magnification 2.8X; Working Distance 18-85mm
- SMC/CMC Option 2 - Bayonet Mount: 83250 + 83214 M67 to Bayonet Mount Converter II + Bayonet Mount Adaptor for SMC/CMC — 81302 CMC - 2 — On APS-C Sensor: Max. Magnification 2.4X; Working Distance 34-121mm
- 83250 M67 to Bayonet Mount Converter II — 87302 EMWL Set #2; 87303 EMWL Set #3 — On Full Frame Sensor: Lens FOV 24°; Converted FOV 60°/100°/130°/160°

**Laowa 24mm f/14 2X Macro Probe** — 16335 Laowa24 Gear Set — 22170 N120 Extension Ring 70 II (* This setup is not compatible with Extension Rings I before SN:A201966 09/2016) — 16336 N120 Port Adaptor for Laowa 24mm f/14 2X Macro Probe

## STANDARD ZOOM – APS-C

**Canon EF-S 18-55mm f/3.5-5.6 IS STM** — 16330 RC1855STM Gear Set
- 22125 N120 Extension Ring 25 II — * 85206 N120/N100 WACP - 1B; 85201 N120 WACP - 1
- 21325 N120 to N100 25mm Port Adaptor — 85205 N100 WACP - C
  - (85206 / 85201 / 85205) On APS-C Sensor: Lens FOV 71-29°; Converted FOV 123-50°; Zoom Range 20-55mm
- 22140 N120 Extension Ring 40 II — 85207 N120/N100 FCP - 1 — On APS-C Sensor: Lens FOV 68-27.5°; Converted FOV 142-54°; Zoom Range 20-55mm

**Sigma 17-70mm F2.8-4 DC Macro OS HSM|C** — 16331 RSC1770OSC Gear Set — 22140 N120 Extension Ring 40 II
- 18802 8.5" Acrylic Dome Port
- * 18812 230mm Optical Glass Wide Angle Port II

**Sigma 18-35mm F1.8 DC HSM|A** — 16326 RSC1835f1.8 Gear Set
- * 85202 N120 WACP-1 for Sigma 18-35mm F1.8 — On APS-C Sensor: Lens FOV 71-46°; Converted FOV 123-79.5°; Zoom Range 20-35mm
- 22180 N120 Extension Ring 80 II
  - 18802 8.5" Acrylic Dome Port
  - 18809 180mm Optical Glass Wide Angle Port
  - * 18812 230mm Optical Glass Wide Angle Port II
  - 85207 N120/N100 FCP - 1 — On APS-C Sensor: Lens FOV 75-42°; Converted FOV 170-78°
- 22130 + 22135 N120 Extension Ring 30 II + N120 Extension Ring 35 II — 85206 N120/N100 WACP - 1B; 85201 N120 WACP - 1
- 22140 + 21325 N120 Extension Ring 40 II + N120 to N100 25mm Port Adaptor — 85205 N100 WACP - C
  - (85206 / 85201 / 85205) On APS-C Sensor: Lens FOV 71-46°; Converted FOV 123-79.5°; Zoom Range 20-35mm
- 22150 + 22150 N120 Extension Ring 50 II + N120 Extension Ring 50 II — 18815 250mm Optical Glass Wide Angle Port II

**Canon RF 24-50mm f/4.5-6.3 IS STM** — 16347 RF2450 Gear Set
- 18709 N120 Flat Port 27 with Bayonet Mount
  - 81301 CMC - 1 — Max. Magnification 0.9X; Working Distance 48-75mm
  - 81302 CMC - 2 — Max. Magnification 0.7X; Working Distance 74-128mm
  - 83203 WWL-C — Lens FOV 84-46.8°; Converted FOV 130-72°
- 21315 N120 to N100 15mm Port Adaptor — 85205 N100 WACP - C — Lens FOV 84-46.8°; Converted FOV 130-81°; Zoom Range 28-50mm
- 22110 N120 Extension Ring 10 II — * 85206 N120/N100 WACP - 1B; 85201 N120 WACP - 1 — Lens FOV 84-46.8°; Converted FOV 130-81°; Zoom Range 28-50mm
- 22120 N120 Extension Ring 20 II — 85207 N120/N100 FCP - 1
  - On APS-C Sensor: Lens FOV 59-30°; Converted FOV 114-57°
  - On Full Frame Sensor: Lens FOV 75-46°; Converted FOV 170-87°; Zoom Range 28-50mm

## STANDARD ZOOM – FULL FRAME

**Canon EF 24-70mm f/2.8L II USM** — 16313 + 16314 RC2470II-Z + RC2470II-F — 22170 N120 Extension Ring 70 II
- 18802 8.5" Acrylic Dome Port
- * 18812 230mm Optical Glass Wide Angle Port II

**Canon RF 24-70mm f/2.8L IS USM** — 16346 RF2470 Gear Set
- 22160 N120 Extension Ring 60 II
  - 18802 8.5" Acrylic Dome Port
  - 18809 180mm Optical Glass Wide Angle Port
  - * 18812 230mm Optical Glass Wide Angle Port II
- 22125 + 22150 N120 Extension Ring 25 II + 50 II — 18815 250mm Optical Glass Wide Angle Port II

**Canon EF 24-105mm f/4L IS USM** — 16337 RC24105 Gear Set — 22170 N120 Extension Ring 70 II
- 18802 8.5" Acrylic Dome Port
- 18809 180mm Optical Glass Wide Angle Port
- * 18812 230mm Optical Glass Wide Angle Port II

**Canon EF 24-105mm f/4L IS II USM** — 16339 RC24105II Gear Set
- 22170 N120 Extension Ring 70 II
  - 18802 8.5" Acrylic Dome Port
  - 18809 180mm Optical Glass Wide Angle Port
  - * 18812 230mm Optical Glass Wide Angle Port II
- 22190 N120 Extension Ring 90 II — 18815 250mm Optical Glass Wide Angle Port II

**Canon EF 28-70mm f/3.5-4.5 II** — 16334 RC2870II Gear Set
** This lens is not supported by R5C camera in video mode*
- 22125 N120 Extension Ring 25 II — * 85206 N120/N100 WACP - 1B; 85201 N120 WACP - 1
- 21325 N120 to N100 25mm Port Adaptor — 85205 N100 WACP - C (* slight vignetting when focus distance from port to subject is less than 10cm at 28mm)
  - (85206 / 85201 / 85205) On APS-C Sensor: Lens FOV 52-22°; Converted FOV 90-38°
  - On Full Frame Sensor: Lens FOV 75-34°; Converted FOV 130-59°
- 22135 N120 Extension Ring 35 II — 85207 N120/N100 FCP - 1 (* slight vignetting at 28mm to 31mm) — On Full Frame Sensor: Lens FOV 75-34°; Converted FOV 170-62°

**Canon RF 28-70mm f2L USM** — 16343 RC2870f2 Gear Set
- 22140 N120 Extension Ring 40 II — 85204 N120 WACP - 2 (* This setup is only compatible with WACP-2 after SN:A526311; * slight vignetting when focus distance from port to subject is less than 10cm at 28mm) — On Full Frame Sensor: Lens FOV 75-63°; Converted FOV 85-72°; Zoom Range 28-35mm
- 22160 N120 Extension Ring 60 II
  - 18812 230mm Optical Glass Wide Angle Port II
  - 18802 8.5" Acrylic Dome Port (* This setup is only compatible with 18802 after SN:A491459)
- 22180 N120 Extension Ring 80 II
  - * 18809 180mm Optical Glass Wide Angle Port (* This setup is only compatible with 18809 after SN:A512606)
  - 18815 250mm Optical Glass Wide Angle Port II

**Canon EF 28-80mm f/3.5-5.6 V USM** — 16344 C2880VUSM Gear Set
- 22130 N120 Extension Ring 30 II — * 85206 N120/N100 WACP - 1B; 85201 N120 WACP - 1
  - On APS-C Sensor: Lens FOV 51-19°; Converted FOV 88-33°
  - On Full Frame Sensor: Lens FOV 75-30°; Converted FOV 130-52°
- 22110 + 22130 N120 Extension Ring 10 II + N120 Extension Ring 30 II — 85207 N120/N100 FCP - 1 (* slight vignetting at 28mm to 31mm) — On Full Frame Sensor: Lens FOV 75-30°; Converted FOV 170-57°
- 21325 N120 to N100 25mm Port Adaptor — 85205 N100 WACP - C
  - On APS-C Sensor: Lens FOV 51-23°; Converted FOV 88-40°
  - On Full Frame Sensor: Lens FOV 75-31°; Converted FOV 130-54°; Zoom Range 28-77mm

## WIDE ANGLE – APS-C

**Canon EF-S 10-18mm f/4.5-5.6 IS STM** — 16340 RC1018 Gear Set — 85204 N120 WACP - 2 — On APS-C Sensor: Lens FOV 108-75°; Converted FOV 128-85°

**Canon EF-S 10-22mm f/3.5-4.5 IS USM** — 16303 + 16304 RC1022-Z + RC1022-F
- 21110 N120 Extension Ring 10 — 85204 N120 WACP - 2 (* This setup is only compatible with WACP-2 before SN:A526311) — On APS-C Sensor: Lens FOV 108-63°; Converted FOV 128-72°
- 22110 N120 Extension Ring 10 II — 85204 N120 WACP - 2 (* This setup is only compatible with WACP-2 after SN:A526311) — On APS-C Sensor: Lens FOV 108-63°; Converted FOV 128-72°
- 22120 N120 Extension Ring 20 II — 23211 8.5" white balance acrylic dome port
- 22160 N120 Extension Ring 60 II
  - 18802 8.5" Acrylic Dome Port
  - * 18812 230mm Optical Glass Wide Angle Port II
  - 18815 250mm Optical Glass Wide Angle Port II

**Sigma 8-16mm F4.5-5.6 DC HSM** — 16305 + 16306 RSC816-Z + RSC816-F
- 22140 N120 Extension Ring 40 II — 18809 180mm Optical Glass Wide Angle Port
- 22150 N120 Extension Ring 50 II
  - 18802 8.5" Acrylic Dome Port
  - * 18812 230mm Optical Glass Wide Angle Port II
  - 18815 250mm Optical Glass Wide Angle Port II

**Sigma 12-24mm F24 DG HSM | Art** — 16327 RSC1224A Gear Set
- 22150 N120 Extension Ring 50 II (* This setup is not compatible with Extension Rings I before SN:A213191 09/2016) — 18815 250mm Optical Glass Wide Angle Port II
- 22160 N120 Extension Ring 60 II (* This setup is not compatible with Extension Rings I before SN:A143566 09/2016) — * 18812 230mm Optical Glass Wide Angle Port II

**Tokina AT-X 11-20mm F2.8 PRO DX** — 16328 RTC1120 Gear Set
- 22120 N120 Extension Ring 20 II — 85204 N120 WACP - 2 — On APS-C Sensor: Lens FOV 100-68°; Converted FOV 118-78°
- 22160 N120 Extension Ring 60 II
  - 18802 8.5" Acrylic Dome Port
  - 18809 180mm Optical Glass Wide Angle Port
  - * 18812 230mm Optical Glass Wide Angle Port II
  - 18815 250mm Optical Glass Wide Angle Port II

**Tokina AT-X 116 PRO DX AF 11-16mm f/2.8** — 16309 + 16310 RSC1116-Z + RSC1116-F
- 21110 N120 Extension Ring 10 — 85204 N120 WACP - 2 (* This setup is only compatible with WACP-2 before SN:A526311) — On APS-C Sensor: Lens FOV 110-81°; Converted FOV 118-92°
- 22110 N120 Extension Ring 10 II — 85204 N120 WACP - 2 (* This setup is only compatible with WACP-2 after SN:A526311) — On APS-C Sensor: Lens FOV 110-81°; Converted FOV 118-92°
- 22160 N120 Extension Ring 60 II
  - 18802 8.5" Acrylic Dome Port
  - 18809 180mm Optical Glass Wide Angle Port
  - * 18812 230mm Optical Glass Wide Angle Port II
  - 18815 250mm Optical Glass Wide Angle Port II

## WIDE ANGLE – FULL FRAME

**Canon RF 10-20mm f/4 L IS USM** — 16342 Gear Set
- 22120 N120 Extension Ring 20 II
  - 18802 8.5" Acrylic Dome Port
  - * 18812 230mm Optical Glass Wide Angle Port II
- 22110 N120 Extension Ring 10 II — 18815 250mm Optical Glass Wide Angle Port II (* This setup is only compatible with 18815 after SN:A470614)
- 22140 N120 Extension Ring 40 II — 18809 180mm Optical Glass Wide Angle Port

**Canon EF 11-24mm f/4L USM** — 16315 + 16316 RC1124-Z + RC1124-F
- 22150 N120 Extension Ring 50 II (* This setup is not compatible with Extension Rings I before SN:A213191 09/2016) — * 18815 250mm Optical Glass Wide Angle Port II
- 22170 N120 Extension Ring 70 II (* This setup is not compatible with Extension Rings I before SN:A201966 09/2016) — 18812 230mm Optical Glass Wide Angle Port II
- 22170 + 22171 N120 Extension Ring 70 II + Focus Knob — 18812 230mm Optical Glass Wide Angle Port II

**Canon RF 14-35mm f/4L IS USM** — 16342 CR1435 Gear Set
- 21110 N120 Extension Ring 10 — 85204 N120 WACP - 2 (* This setup is only compatible with WACP-2 before SN:A526311)
  - On APS-C Sensor: Lens FOV 89-42°; Converted FOV 104-48°
  - On Full Frame Sensor: Lens FOV 114-63°; Converted FOV 140-72°
- 22110 N120 Extension Ring 10 II — 85204 N120 WACP - 2 (* This setup is only compatible with WACP-2 after SN:A526311)
  - On APS-C Sensor: Lens FOV 89-42°; Converted FOV 104-48°
  - On Full Frame Sensor: Lens FOV 114-63°; Converted FOV 140-72°
- 22140 N120 Extension Ring 40 II
  - 18809 180mm Optical Glass Wide Angle Port
  - 85207 N120/N100 FCP - 1
    - On APS-C Sensor: Lens FOV 75-42°; Converted FOV 170-78°; Zoom Range 18-35mm
    - On Full Frame Sensor: Lens FOV 75-63°; Converted FOV 170-122°; Zoom Range 28-35mm (* slight vignetting at 28mm)
    - On Full Frame Sensor: Circular Fisheye ( remove shade ); Converted FOV 180°; Zoom Range at 14mm only
- 22155 N120 Extension Ring 55 II
  - 18802 8.5" Acrylic Dome Port
  - * 18812 230mm Optical Glass Wide Angle Port II
  - 18815 250mm Optical Glass Wide Angle Port II

**Canon RF 15-30mm f/4.5-6.3 IS STM** — 16345 CR1530 Gear Set
- * 85204 N120 WACP - 2
  - On APS-C Sensor: Lens FOV 84-49°; Converted FOV 101-59°
  - On Full Frame Sensor: Lens FOV 110-71°; Converted FOV 133-81°
- 22120 N120 Extension Ring 20 II — 85206 N120/N100 WACP - 1B; 85201 N120 WACP - 1
  - On APS-C Sensor: Lens FOV 75-49°; Converted FOV 130-85°; Zoom Range 18-30mm
  - On Full Frame Sensor: Lens FOV 75-72°; Converted FOV 130-125°; Zoom Range 28-30mm
- 22130 N120 Extension Ring 30 II — * 18809 180mm Optical Glass Wide Angle Port
- 22140 N120 Extension Ring 40 II
  - 18802 8.5" Acrylic Dome Port
  - 18812 230mm Optical Glass Wide Angle Port II
- 22150 N120 Extension Ring 50 II — 18815 250mm Optical Glass Wide Angle Port II
- 21320 N120 to N100 20mm Port Adaptor — 85205 N100 WACP - C — On APS-C Sensor: Lens FOV 75-49°; Converted FOV 130-85°; Zoom Range 18-30mm

**Canon RF 15-35mm f/2.8L IS USM** — 16341 CR1535 Gear Set
- 22135 N120 Extension Ring 35 II — 85204 N120 WACP - 2
  - On APS-C Sensor: Lens FOV 84-42°; Converted FOV 98-48°
  - On Full Frame Sensor: Lens FOV 110-63°; Converted FOV 133-72°
- 22170 N120 Extension Ring 70 II
  - 18802 8.5" Acrylic Dome Port
  - 18809 180mm Optical Glass Wide Angle Port
  - * 18812 230mm Optical Glass Wide Angle Port II
- 22180 N120 Extension Ring 80 II — 18815 250mm Optical Glass Wide Angle Port II

**Canon EF 16-35mm f/2.8 II USM** — 16311 + 16312 RC1635II-Z + RC1635II-F
- 22130 N120 Extension Ring 30 II — 85204 N120 WACP - 2
  - On APS-C Sensor: Lens FOV 84-44°; Converted FOV 98-51°
  - On Full Frame Sensor: Lens FOV 107-63°; Converted FOV 128-72°
- 22170 N120 Extension Ring 70 II
  - 18802 8.5" Acrylic Dome Port
  - 18809 180mm Optical Glass Wide Angle Port
- 22180 N120 Extension Ring 80 II
  - * 18812 230mm Optical Glass Wide Angle Port II
  - 18815 250mm Optical Glass Wide Angle Port II

**Canon EF 16-35mm f/2.8 III USM** — 16325 RC1635III Gear Set
- 22150 N120 Extension Ring 50 II — * 85204 N120 WACP - 2
  - On APS-C Sensor: Lens FOV 84-44°; Converted FOV 98-51°
  - On Full Frame Sensor: Lens FOV 107-63°; Converted FOV 128-72°
- 22170 N120 Extension Ring 70 II — 85206 N120/N100 WACP - 1B; 85201 N120 WACP - 1
  - On APS-C Sensor: Lens FOV 71-45°; Converted FOV 123-78°; Zoom Range 20-35mm
  - On Full Frame Sensor: Lens FOV 75-63°; Converted FOV 130-109°; Zoom Range 28-35mm
- 22180 N120 Extension Ring 80 II — 18809 180mm Optical Glass Wide Angle Port
- 22190 N120 Extension Ring 90 II
  - 18802 8.5" Acrylic Dome Port
  - * 18812 230mm Optical Glass Wide Angle Port II
  - 18815 250mm Optical Glass Wide Angle Port II

**Canon EF 16-35mm f/4L IS USM** — 16317 + 16318 RC1635f4-Z + RC1635f4-F
- 22130 N120 Extension Ring 30 II — * 85204 N120 WACP - 2
  - On APS-C Sensor: Lens FOV 84-44°; Converted FOV 98-51°
  - On Full Frame Sensor: Lens FOV 107-63°; Converted FOV 128-72°
- 22160 N120 Extension Ring 60 II — 85206 N120/N100 WACP - 1B; 85201 N120 WACP - 1
  - On APS-C Sensor: Lens FOV 71-45°; Converted FOV 123-78°; Zoom Range 20-35mm
  - On Full Frame Sensor: Lens FOV 75-63°; Converted FOV 130-109°; Zoom Range 28-35mm
- 22170 N120 Extension Ring 70 II
  - 18802 8.5" Acrylic Dome Port
  - 18809 180mm Optical Glass Wide Angle Port
  - 85207 N120/N100 FCP - 1
    - On APS-C Sensor: Lens FOV 75-42°; Converted FOV 170-78°; Zoom Range 18-35mm
    - On Full Frame Sensor: Lens FOV 75-63°; Converted FOV 170-122°; Zoom Range 28-35mm
- 22180 N120 Extension Ring 80 II
  - * 18812 230mm Optical Glass Wide Angle Port II
  - 18815 250mm Optical Glass Wide Angle Port II

**ZEISS Milvus 18mm f/2.8 ZE** — 16329 ZMC-F — 22150 N120 Extension Ring 50 II
- 18809 180mm Optical Glass Wide Angle Port
- * 18812 230mm Optical Glass Wide Angle Port II

**ZEISS Milvus 21mm f/2.8 ZE** — 16329 ZMC-F — 22150 N120 Extension Ring 50 II
- 18809 180mm Optical Glass Wide Angle Port
- * 18812 230mm Optical Glass Wide Angle Port II

## FISHEYE – APS-C

**Tokina AT-X 107 AF DX Fisheye AF 10-17mm f/3.5-4.5** — 16307 + 16308 RTC1017-Z + RTC1017-F
- 21110 N120 Extension Ring 10 — 18810 140mm Optical Glass Fisheye Port (* This setup is only compatible with 18810 before SN:A490446)
- 22110 N120 Extension Ring 10 II — * 18810 140mm Optical Glass Fisheye Port (* This setup is only compatible with 18810 after SN:A490446)
- 22120 N120 Extension Ring 20 II
  - 18802 8.5" Acrylic Dome Port
  - 18812 230mm Optical Glass Wide Angle Port II

## FISHEYE – FULL FRAME

**Canon EF 8-15mm f/4L Fisheye USM** — 16301 + 16302 RC815-Z + RC815-F — 22130 N120 Extension Ring 30 II
- 18802 8.5" Acrylic Dome Port
- * 18811 140mm Optical Glass Fisheye Port with Removable Shade
- 18812 230mm Optical Glass Wide Angle Port II

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.

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