

computar®

RUGGEDIZED
FOR MACHINE VISION

MPX SERIES

MACHINE VISION LENSES

2/3" 16 MP



THE NEW STANDARD IN HIGH RESOLUTION MACHINE VISION LENSES

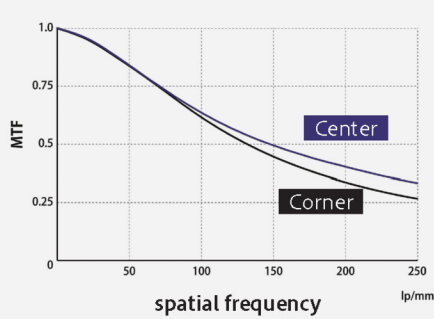
- ✓ 10G anti-vibration & shock-resistant design for harsh inspection environments
- ✓ Fully compatible with 2µm pixel size or less
- ✓ The floating mechanism enables high performance from close-up to long-distance
- ✓ Focus rotation angle is 3x wider than conventional lenses for precise focus adjustments
- ✓ Adoption of click-type iris mechanism
- ✓ Ruggedized mechanical design minimizes image aberrations from shock and vibration

computar

computar.com/mpx

- Anti-vibration (10G) and shock resistance design (10G) to adapt to harsh inspection environments
- High-resolution lens 2 μ m or less pixel size supported
- Floating mechanism enables high performance from close-up to long distance
- Precise focus adjustment with a focus rotation angle 3 times greater than usual lenses
- Adoption of click-type iris mechanism
- Wide lineup of f=8mm/12mm/16mm/25mm/35mm/50mm/75mm

2/3" 16MP MANUAL FIX FLOATING



Existing Lens
Focus ring rotation angle: 200°



3x wider rotation angle!
Easy focus adjustment



MPX
Focus ring rotation angle: 610°



| | M2528-MPX | M3528-MPX | M5028-MPX | M7538-MPX | M0828-MPX | M1228-MPX | M1628-MPX |
|------------------------------|---|--|---|--|---|---|---|
| Focal Length | 25mm | 35mm | 50mm | 75mm | 8mm | 12mm | 16mm |
| Max. Aperture Ratio | 1:2.8 | 1:2.8 | 1:2.8 | 1:3.8 | 1:2.8 | 1:2.8 | 1:2.8 |
| Max. Image Format | ϕ 11.8mm | ϕ 11.8mm | ϕ 11.8mm | ϕ 11.8mm | ϕ 11.8mm | ϕ 11.8mm | ϕ 11.8mm |
| Operation Range | Iris: F2.8 - F16.0 Focus: 0.1m - Inf | Iris: F2.8 - F16.0 Focus: 0.15m - Inf | Iris: F2.8 - F16.0 Focus: 0.2m - Inf | Iris: F3.8 - F16.0 Focus: 0.25m - Inf | Iris: F2.8 - F16.0 Focus: 0.1m - Inf | Iris: F2.8 - F16.0 Focus: 0.1m - Inf | Iris: F2.8 - F16.0 Focus: 0.1m - Inf |
| Control | Iris: Manual Focus: Manual | Iris: Manual Focus: Manual | Iris: Manual Focus: Manual | Iris: Manual Focus: Manual | Iris: Manual Focus: Manual | Iris: Manual Focus: Manual | Iris: Manual Focus: Manual |
| Angle of View | D: 24.8° H: 20.0° V: 15.1° | D: 18.2° H: 14.3° V: 11.0° | D: 13.7° H: 10.8° V: 8.3° | D: 9.8° H: 7.8° V: 5.9° | D: 12.6° H: 10.1° V: 7.5° | D: 9.1° H: 7.3° V: 5.5° | D: 6.9° H: 5.5° V: 4.1° |
| Operating Temperature | -10°C - +50°C | -10°C - +50°C | -10°C - +50°C | -10°C - +50°C | -10°C - +50°C | -10°C - +50°C | -10°C - +50°C |
| Optical Distortion | 2/3° +0.06% 1/2° 0.00% 1/3° -0.01% | 2/3° +0.10% 1/2° +0.10% 1/3° -0.04% | 2/3° +0.04% 1/2° +0.07% 1/3° +0.05% | 2/3° +0.00% 1/2° +0.14% 1/3° -0.11% | 2/3° +0.06% 1/2° -0.39% 1/3° -0.38% | 2/3° +0.13% 1/2° -0.03% 1/3° -0.05% | 2/3° 0.24% 1/2° 0.00% 1/3° -0.03% |
| Back Focal Length | 9.5mm | 10.9mm | 13.2mm | 11.9mm | 10.2mm | 10.2mm | 10.3mm |
| Flange Back Length | 17.526mm | 17.526mm | 17.526mm | 17.526mm | 17.526mm | 17.526mm | 17.526mm |
| Mount | C-Mount | C-Mount | C-Mount | C-Mount | C-Mount | C-Mount | C-Mount |
| Filter Size | M30.5 P=0.5mm | M30.5 P=0.5mm | M30.5 P=0.5mm | M30.5 P=0.5mm | - | M30.5 P=0.5mm | M30.5 P=0.5mm |
| Dimensions | ϕ 31.8mm × 46mm | ϕ 31.8mm × 46mm | ϕ 31.8mm × 46mm | ϕ 31.8mm × 46mm | ϕ 31.8mm × 39.45mm | ϕ 31.8mm × 35.9mm | ϕ 31.8mm × 35.45mm |
| Weight | 83g | 82g | 85g | 89g | 89g | 78g | 74g |

