

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 2 μ m 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

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- Anti-vibration (10G) and shock resistance design (10G) to adapt to harsh inspection environments
- High-resolution lens 2μm 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

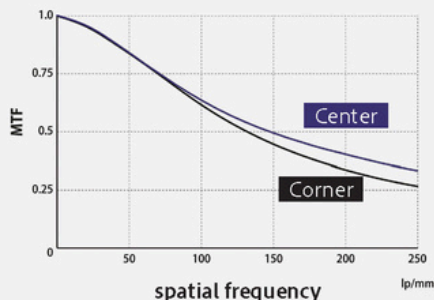
2/3"

16MP

MANUAL

FIX

FLOATING



Existing Lens
Focus ring rotation angle: 200°



3x wider rotation angle!
Easy focus adjustment



MPX
Focus ring rotation angle: 610°



	M0828-MPX	M1228-MPX	M1628-MPX	M2528-MPX	M3528-MPX	M5028-MPX	M7538-MPX									
Focal Length	8mm	12mm	16mm	25mm	35mm	50mm	75mm									
Max. Aperture Ratio	1:2.8	1:2.8	1:2.8	1:2.8	1:2.8	1:2.8	1:3.8									
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 0.1m - 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 0.15m - Inf	Iris F2.8 - F16.0 Focus 0.2m - Inf	Iris F3.8 - F16.0 Focus 0.25m - 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 67.5° H 2/3° 56.4° V 43.9°	D 52.0° H 1/2° 42.6° V 32.6°	D 40.2° H 1/3° 32.6° V 24.7°	D 28.1° H 1/3° 22.7° V 17.1°	D 21.3° H 1/3° 17.1° V 12.9°	D 15.1° H 1/3° 11.0° V 8.3°	D 24.8° H 1/2° 18.2° V 13.7°	D 17.8° H 1/3° 14.3° V 10.8°	D 13.0° H 1/3° 10.4° V 7.8°	D 9.8° H 1/3° 7.8° V 5.9°	D 12.6° H 1/2° 10.1° V 7.5°	D 9.1° H 1/3° 7.3° V 5.5°	D 6.9° H 1/3° 5.5° V 4.1°	D 8.6° H 1/2° 6.9° V 5.2°	D 6.3° H 1/3° 5.0° V 3.8°	D 4.7° H 1/3° 3.8° V 2.8°
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° -0.39% 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%	2/3° -0.08% 1/2° 0.00% 1/3° -0.01%	2/3° -0.10% 1/2° +0.10% 1/3° +0.08%	2/3° -0.04% 1/2° +0.07% 1/3° +0.03%	2/3° -0.00% 1/2° +0.14% 1/3° +0.11%									
Back Focal Length	10.2mm	10.2mm	10.3mm	9.5mm	10.9mm	13.2mm	11.9mm									
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=0.5m	M30.5 P=0.5m	M30.5 P=0.5m	M30.5 P=0.5m	M30.5 P=0.5m	M30.5 P=0.5m									
Dimensions	φ 31.8mm × 39.45mm	φ 31.8mm × 35.9mm	φ 31.8mm × 35.45mm	φ 31.8mm × 46mm	φ 31.8mm × 46mm	φ 31.8mm × 46mm	φ 31.8mm × 46mm									
Weight	89g	78g	74g	83g	82g	85g	89g									

