

1/1.8" Mega-Pixel Fixed-Focal Industrial Lenses

Fixed-Focal Industrial Lens Series



An improved series of ultra-high performance Fixed-Focal Industrial Lenses optimized for 1/1.8" and 1/2" image processing cameras. In addition to the outstanding center performance as a matter of course, the peripheral optical performance has been dramatically improved. Best for FA (Factory Automation) and Machine Vision applications.

/// Reduced Minimum Object Distance

/// Ultra High Resolution

/// Enhanced Performance in Close Focusing

/// Distortion Minimized

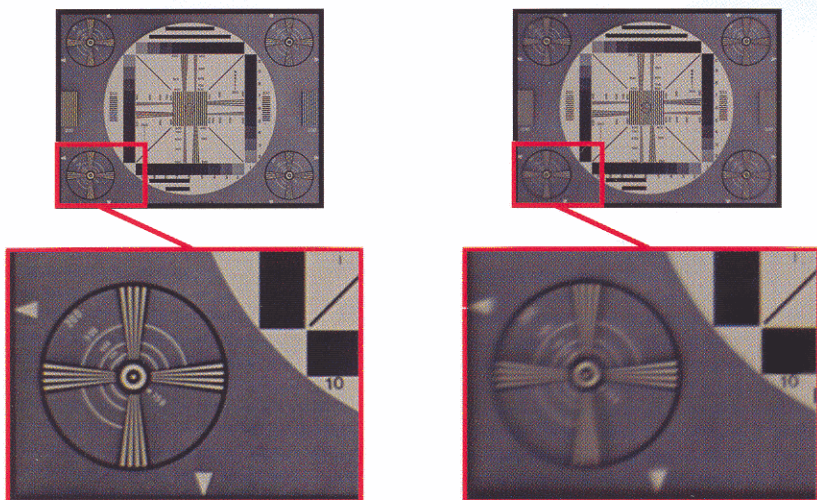
/// Anti-Vibration Construction

/// Compact Design

Resolution enhanced over the entire image field

[Tamron Mega-Pixel Lens]

[Normal Lens]



Performance at close distances, the usual condition for FA/Machine Vision applications, is enhanced to a great degree. In order to be compatible with mega-pixel cameras, high optical performance is secured from center all the way to the image corners.

In addition, the close focusing capability, an important factor for FA/Machine Vision lenses, is improved. Compared to a normal lens, the minimum object distance is improved due to a new design. (The closest focusing distance of the 16mm lens is shortened from 0.3 meter to 0.1 meter; the 25mm lens is shortened from 0.25 meter to 0.1 meter; and that of the 50mm lens is reduced from 0.5 meter to 0.2 meter.)

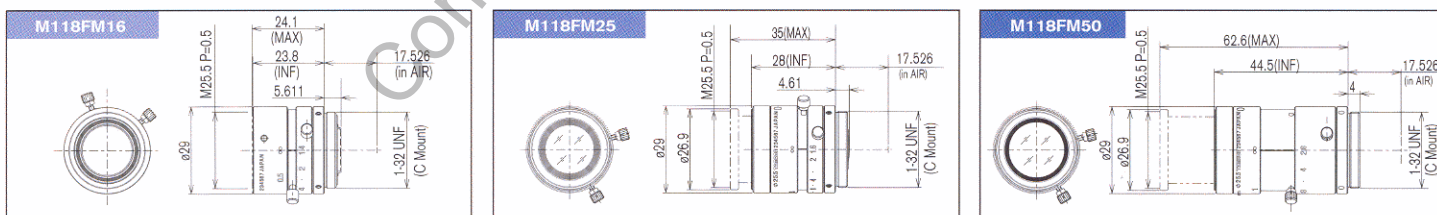
* EIAJ Test Chart A (H:11mm × W:15mm)

SPECIFICATION

| Model | | M118FM16 | M118FM25 | M118FM50 |
|--|--------|-----------------|-----------------|-----------------|
| Imager Size | | 1/1.8 | 1/1.8 | 1/1.8 |
| Focal Length | | 16mm | 25mm | 50mm |
| Aperture Range | | 1.4-16 | 1.6-16 | 2.8-22 |
| Mount Type | | C | C | C |
| Angle of View (Horizontal X Vertical) | 1/1.8 | 25.9° × 19.5° | 16.6° × 12.5° | 8.3° × 6.2° |
| | 1/2 | 22.8° × 17.1° | 14.6° × 11.0° | 7.3° × 5.5° |
| TV Distortion | | | -0.2% or less | -0.1% or less |
| Operation | Focus | Manual w/Lock ★ | Manual w/Lock ★ | Manual w/Lock ★ |
| | Manual | Manual w/Lock ★ | Manual w/Lock ★ | Manual w/Lock ★ |
| Filter Size | | M25.5 P=0.5mm | M25.5 P=0.5mm | M25.5 P=0.5mm |
| Minimum Object Distance | | 0.1m | 0.1m | 0.2m |
| Weight | | | 39g | 52g |

★ Lock screw can be set from three different direction.

DIMENSION



Caution : Please read the instruction manual carefully before using the lens.

TAMRON®

Manufacturer of precise and sophisticated optical products for a broad range of industries.



Quality Assurance Activities: At Tamron, quality management activities are performed in compliance with ISO9001:2000 not only to assure product quality but to enhance customer satisfaction.

Environmental Protection: We recognize the significance of our social responsibilities. Tamron promotes corporate activities that protect the earth's environment through the establishment of a quality assurance system that is compliant with ISO14001.

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Specifications subject to change without notice 2007,6