TAMRON

Lenses for Machine Vision/Factory Automation

High Resolution







- Super High Resolution 25mm 3-Megapixel Lens
 - 1.3-Megapixel Lens Series
 - Standard High Resolution Lens Series

SUPER HIGH RESOLUTION

Super High Resolution

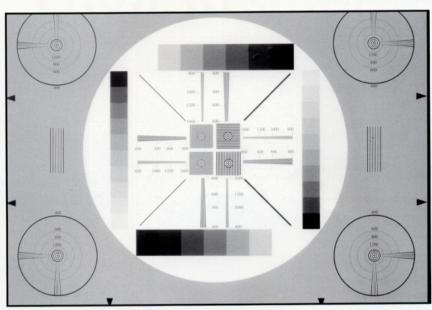
The high resolution achieved by this lens is a direct result of the thorough compensation of aberrations that are successfully lowered by Tamron through the use of advanced optical designs. High resolution of 200 lines at the center and 160 lines at the corners is achieved.

Low Distortion

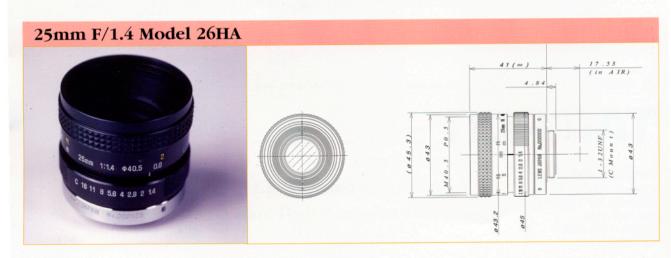
This same technology provides tremendous distortion compensation that ensures high resolution from corner to corner even at the closer minimum focusing distance (M.O.D.) of 0.6m. Less than -0.2% TV distortion at all apertures is the remarkable result.

Maximum Corner Brightness

This lens provides less corner illumination loss and therefore maximum brightness, even at 4.8mm image height (70% brightness).



Test target with Tamron 25mm F/1.4 Super High Resolution Lens.



SPECIFICATIONS

| mager Size | Model | Focal Length (mm) | Aperture Range (c=close) | Angular of View (HxV) | Operation Iris Focus Zoom | Minimum Object Distance (m) | Filter Size (mm) | Max. Diameter (mm) | Overall Length (mm) | Weight (g) | Mount |
|---------------|----------|-------------------------|--------------------------------|-----------------------------|-----------------------------|--------------------------------------|------------------------|--------------------------|---------------------------|---------------|-------|
| MEG | APIXEL 1 | HIGH | RESOI | LUTION | | | | | | | |
| 2/3 | 23FM16SP | 16 | 1.4~0 | 30.9°x23.4° | Manual Manual witook | 0.15 | 30.5 | Ø34 | 38 | 80 | (|
| | 23FM25SP | 25 | 1.4~16 | 20.0°x15.1° | Manual Manual wlock wlock | 0.15 | 30.5 | Ø34 | 52.2 | 103 | (|
| | 23FM50SP | 50 | 2.8~16 | 10.1°x7.6° | Manual Manual w/Lock w/Lock | 0.20 | 30.5 | Ø34 | 77.5 | 117 | (|
| STAN | DARD H | IIGH I | RESOL | UTION | | | | | | | |
| 2/3 | 23FM65 | 6.5 | 1.8~C | 71.6°x55.5° | Manual w/Lock | 0.15 | _ | Ø37 | 31.5 | 60 | (|
| | 23FM08 | 8 | 1.4~16 | 59.3°x45.8° | Manual Manual | 0.26 | 25.5 | Ø29 | 27 | 40 | (|
| | 23FM08L | 8 | 1.4~16 | 59.3°x45.2° | Manual Manual w/lock w/lock | 0.26 | 25.5 | Ø30.5 | 27 | 48 | C |
| | 23FM12 | 12 | 1.8~16 | 40.9°x30.9° | Manual Manual —— | 0.26 | 25.5 | Ø29 | 27 | 40 | (|
| | 23FM12L | 12 | 1.8~16 | 40.9°x30.9° | Manual Manual w/Lock w/Lock | 0.26 | 25.5 | Ø30.5 | 27 | 46 | (|
| | 23FM16 | 16 | 1.4~16 | 30.9°x23.2° | Manual Manual —— | 0.29 | 25.5 | Ø29 | 25 | 50 | (|
| | 23FM16L | 16 | 1.4~16 | 30.9°x23.2° | Manual Manual w/Lock w/Lock | 0.29 | 25.5 | Ø30.5 | 25 | 48 | C |
| | 23FM25 | 25 | 1.6~16 | 20.0°x15.0° | Manual Manual —— | 0.25 | 25.5 | Ø29 | 25.5 | 37 | C |
| | 23FM25L | 25 | 1.6~16 | 20.0°x15.0° | Manual Manual w/Lock w/Lock | 0.25 | 25.5 | Ø30.5 | 25.5 | 40 | C |
| | 23FM35L | 35 | 2.1~22 | 14.3°x10.8° | Manual Manual | 0.3 | 25.5 | Ø30.5 | 32 | 44 | C |
| | 23FM50 | 50 | 2.8~22 | 10.0°x7.5° | Manual Manual —— | 0.44 | 25.5 | Ø29 | 38.5 | 50 | C |
| | 23FM50L | 50 | 2.8~22 | 10.0°x7.5° | Manual Manual | 0.44 | 25.5 | Ø30.5 | 38.5 | 52 | C |
| | 23FM75 | 75 | 3.9~32 | 6.9°x5.2° | Manual Manual —— | 0.5 | 25.5 | Ø27.5 | 65.5 | 64 | C |
| | 23FM75L | 75 | 3.9~32 | 6.9°x5.2° | Manual Manual | 0.5 | 25.5 | Ø27.5 | 65.5 | 68 | (|

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

1.4~C 19.9°x15.0°



Manufacturers of lenses for photographic, industrial, laboratory, video, and scientific applications.

TAMRON USA, INC.

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40.5

Ø45.3

ISO 9001 Certified

Tamron operates a quality management system that has been certified as conforming to ISO9001.

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Tamron operates an environmental management system that has been certified as conforming to ISO14001.