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# 5mm FL, f/5.6, Low Distortion M12 Lens

5mm FL, Low Distortion M12 Lens

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## General

**Product Family:**
Ultra Low Distortion Wide Angle Lenses

**Imaging Lens Type:**
M12 Imaging Lens

## Physical & Mechanical Properties

**Iris Option:**
Fixed

**Length (mm):**
29.90

**Maximum Diameter (mm):**
21.5

**Outer Diameter (mm):**
21.5

**Weight (g):**
12

**Maximum Length (mm):**
29.90

## Optical Properties

**Horizontal Field of View @ Max Sensor Format:**
59.8°

**Field of View at Max Sensor Format:**
Horizontal: 59.8°
Vertical: 46.2°
Diagonal: 71.8°

**Maximum Image Circle (mm):**
9.00

**Focal Length FL (mm):**
5.00

**Working Distance (mm):**
100 - ∞

**Aperture (f/#):**
f/5.6

**Maximum Distortion (%):**
-0.51

**Exit Pupil Position (mm):**
-25.4

**Lens Wavelength Range:**
VIS

## Sensor

**Optimized Sensor Format:**
1/1.8"

**Maximum Sensor Format:**
1/1.8"

## Threading & Mounting

**Mount:**
S-Mount (M12 x 0.5)

## Environmental & Durability Factors

**Storage Temperature (°C):**
-20 to +60

## Regulatory Compliance

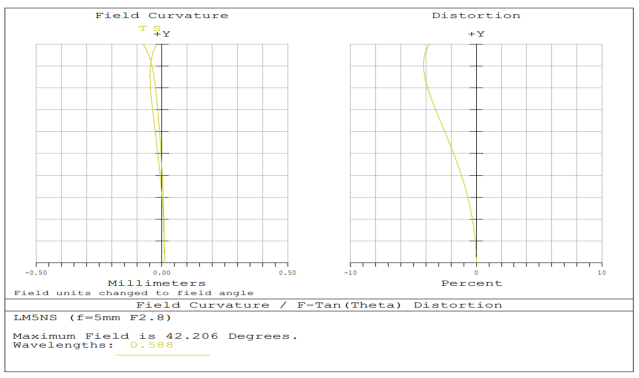
**Certificate of Conformance:**
View

# Product Details

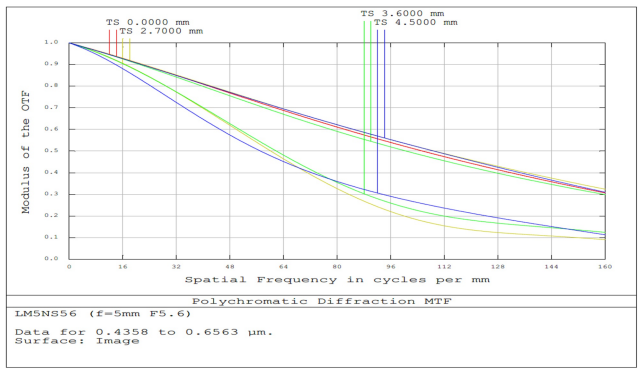
- Distortion as low as -0.02%
- Up to 1/1.8", S-Mount Options
- 1.7mm - 5mm Focal Lengths

Ultra Low Distortion Wide Angle Lenses are designed to achieve less than -0.02% distortion over a 76.9° field of view, less than -0.32% distortion over a 109.1° field of view, or less than -0.51% distortion over a 59.8° field of view. The ultra-low distortion values of these lenses ensure imaging with straight lines and natural object shapes, helping to reduce post-processing requirements. These lenses offer high transmission from the VIS to NIR and are available in focal lengths of 1.70, 3.00, and 5.00mm. Ultra Low Distortion Wide Angle Lenses' low focal lengths allow for capturing more of the scene in a single frame. These lenses are ideal for surveillance, security, robotics, drive assistance systems, and **factory automation applications**.

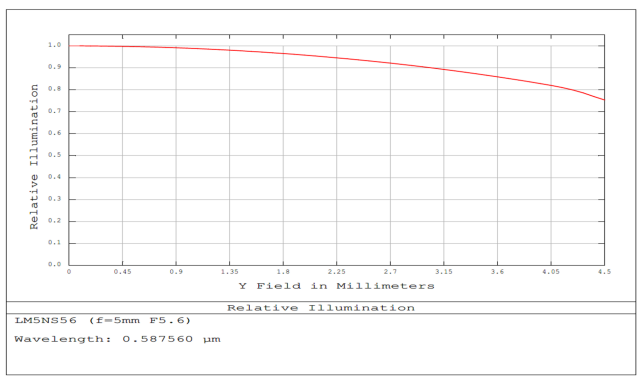
# Technical Information



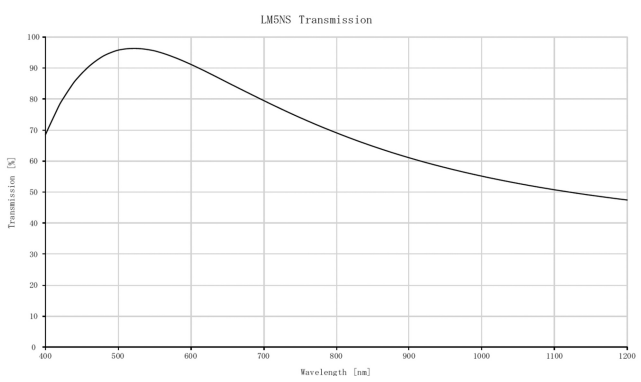
*5mm FL, f/5.6, Low Distortion M12 Lens, Distribution Plot*




*5mm FL, f/5.6, Low Distortion M12 Lens, MTF Plot*




*5mm FL, f/5.6, Low Distortion M12 Lens, Relative Illumination Plot*




*5mm FL, f/5.6, Low Distortion M12 Lens, Transmission Plot*

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