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5mm FL, f/2.1, Low Distortion M12 Lens

5mm FL, Low Distortion M12 Lens

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General

Series:
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°

Focal Length FL (mm):
5.00

Working Distance (mm):
100 - ∞

Aperture (f/#):
f/2.1

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

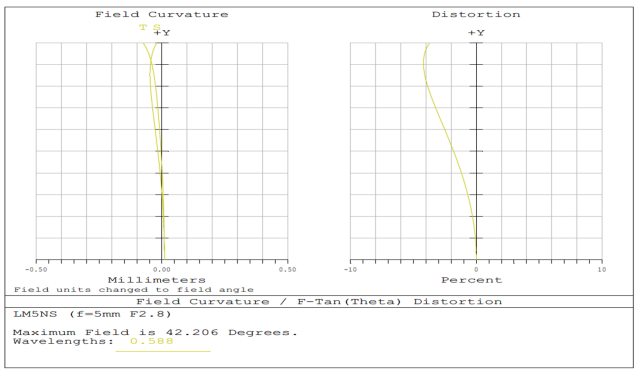
Certificate of Conformance:
View

Product Details

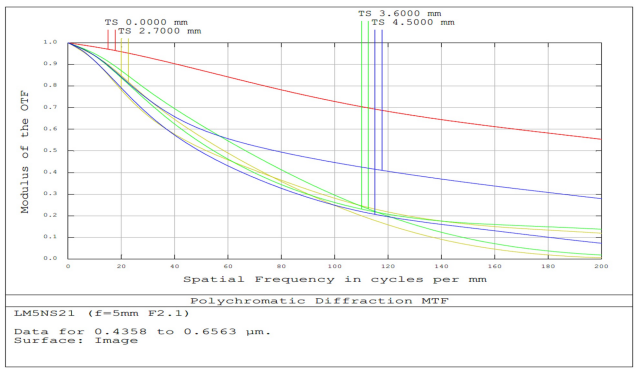
- Distortion as low as -0.02%
- Up to 1/1.8", S-Mount Options
- 1.7mm - 5mm Focal Lengths

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.

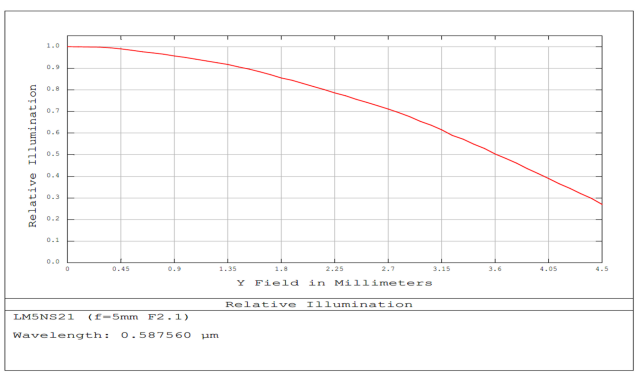
Technical Information



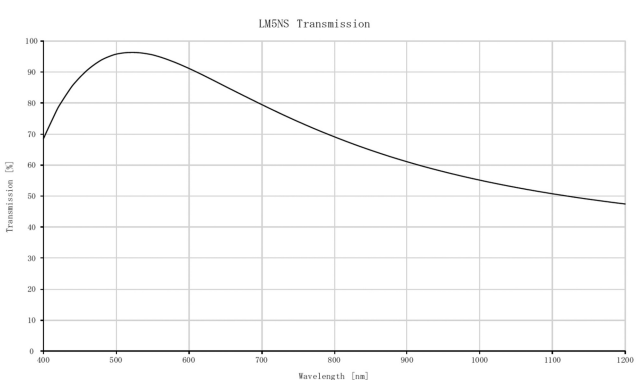
5mm FL, f/2.1, Low Distortion M12 Lens, Distribution Plot



5mm FL, f/2.1, Low Distortion M12 Lens, MTF Plot



5mm FL, f/2.1, Low Distortion M12 Lens, Relative Illumination Plot



5mm FL, f/2.1, Low Distortion M12 Lens, Transmission Plot

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