

# 5mm FL, f/2.8, Low Distortion M12 Lens



5mm FL, Low Distortion M12 Lens

Stock **#75-214** NEW **1 In Stock**

-

1

+

₹19,575

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | ₹19,575 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Ultra Low Distortion Wide Angle Lenses

Series:

M12 Imaging Lens

Imaging Lens Type:

Physical & Mechanical Properties

Fixed

Iris Option:

29.90

Length (mm):

|       |                        |
|-------|------------------------|
| 21.5  | Maximum Diameter (mm): |
| 21.5  | Outer Diameter (mm):   |
| 12    | Weight (g):            |
| 29.90 | Maximum Length (mm):   |

|                                                                                                |                           |
|------------------------------------------------------------------------------------------------|---------------------------|
| Optical Properties                                                                             |                           |
| Horizontal Field of View @ Max Sensor Format:<br>59.8°                                         |                           |
| Field of View at Max Sensor Format:<br>Horizontal: 59.8°<br>Vertical: 46.2°<br>Diagonal: 71.8° |                           |
| 5.00                                                                                           | Focal Length FL (mm):     |
| 100 - ∞                                                                                        | Working Distance (mm):    |
| f/2.8                                                                                          | Aperture (f/#):           |
| -0.51                                                                                          | Maximum Distortion (%):   |
| -25.4                                                                                          | Exit Pupil Position (mm): |
| VS                                                                                             | Lens Wavelength Range:    |

|        |                          |
|--------|--------------------------|
| Sensor |                          |
| 1/1.8" | Optimized Sensor Format: |
| 1/1.8" | Maximum Sensor Format:   |

|                      |        |
|----------------------|--------|
| Threading & Mounting |        |
| S-Mount (M12 x0.5)   | Mount: |

|                                    |                           |
|------------------------------------|---------------------------|
| Environmental & Durability Factors |                           |
| -20 to +60                         | Storage Temperature (°C): |

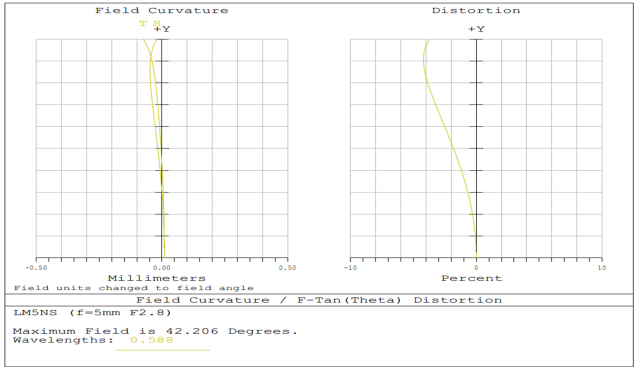
|                                     |                             |
|-------------------------------------|-----------------------------|
| Regulatory Compliance               |                             |
| <a href="#">View</a>                | Certificate of Conformance: |
| Japan                               | Country of Origin:          |
| Edmund Optics India Private Limited | Imported By:                |

## Product Details

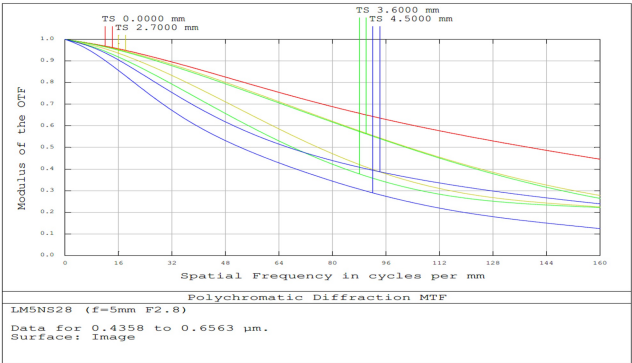
- Distortion as low as -0.02%
- Up to 1/1.8", S-Mbunt Options
- 1.7mm - 5mm Focal Lengths

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 VS 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](#).

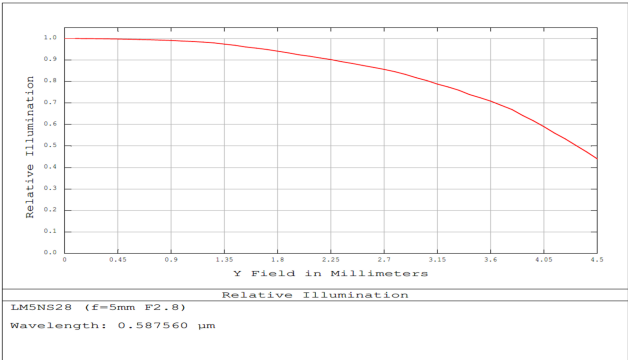
## Technical Information



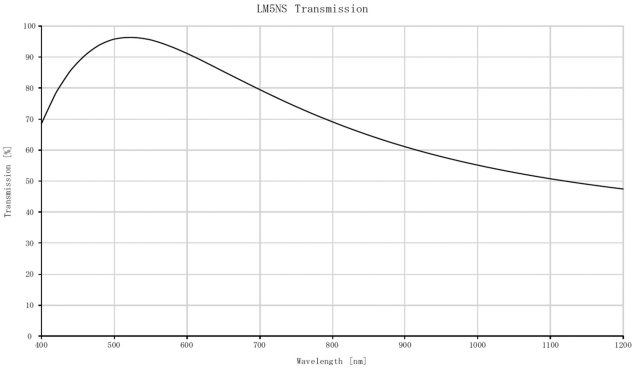
5mm FL, f/2.8, Low Distortion M12 Lens, Distribution Plot



5mm FL, f/2.8, Low Distortion M12 Lens, MTF Plot



5mm FL, f/2.8, Low Distortion M12 Lens, Relative Illumination Plot



5mm FL, f/2.8, Low Distortion M12 Lens, Transmission Plot