

AZURE 2/3" ULTRAVIOLET (UV) SENSORS

Azure Photonics UV Fixed Focal Length Lenses

AZURE-00202XZMUV-1
2/3", 25mm, C-Mount, UV

- 2/3" Sensor Format
- 25mm, 35mm, 50mm & 75mm Focal Lengths
- C-mount Mount
- 155mm Minimum Working Distance

PRODUCT DESCRIPTION

The Azure 2/3" Ultraviolet (UV) Fixed-Focal Lenses range from Azure Photonics offers C-mount lenses optimised for UV imaging across a broad spectral window (200–1,000 nm) for 2/3" sensors. Available focal lengths include 25 mm, 35 mm, 50 mm, and 75 mm with a manual iris range of F2.8–F22. They support typical working distances from ~155 mm to ~200 mm, featuring high-resolution optical performance suitable for 8 MP sensors (~2.74 µm pixel pitch). These lenses lack IR-cut filters and coaxial illumination options, ensuring full UV throughput, and are housed in robust metal barrels to maintain performance across their high-resolution capability.

In practice, these UV-capable fixed-focal lenses excel in specialised machine-vision tasks like plastic sorting, wafer and solar-cell inspection, authentication marking, UV-fluorescence detection, and forensic analysis. Their precise manual iris control enables depth-of-field tuning and light-level adjustment, critical for high-contrast UV imaging. The 75 mm version, for example, is ideal for tight field, long-distance inspections, while the 25 mm lens suits wider scenes at closer distances ~155 mm. OEM technicians or integrators using UV illumination and matched optical filters can accurately capture subtle UV-visible signatures or fluorescent emissions, making these lenses highly suitable for semiconductor fabs, quality control in manufacturing, security document verification, and scientific UV imaging setups.