

Polarized CMOS Cameras with Sony IMX250MZR

Ideal for Inspection of High Reflection or Low Contrast Surfaces

The PL-D755MU-POL polarization machine vision camera, based on the Sony IMX250MZR image sensor, offers broader visual detection and characterization of material properties and improved performance over conventional sensors.

Sony's IMX250MZR 3rd generation Pregius CMOS global shutter sensor features an innovative pixel-level quad polarization filter technology, where four polarizer positions, one per pixel, are angled at 0°, 45°, 90° and 135°, to enable greater detection of both the amount and angles of polarized light across an image. This allows on-camera calculation of the angle, degree and strength of the polarization.

By filtering unwanted reflections and reducing glare, imaging previously undetectable defects, such as scratches or stress on transparent, reflective or low contrast surfaces, is now possible.



PL-D755MU-T-POL

PL-D755MU-T-POL		SONY IMX250MZR	2/3" Sensor	2448 x 2048	5MP
3.45 µm	36 fps	ENCLOSED	GLOBAL SHUTTER		
17.6 mm	MONO	BOARD LEVEL	TRIGGER		

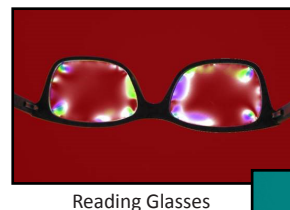
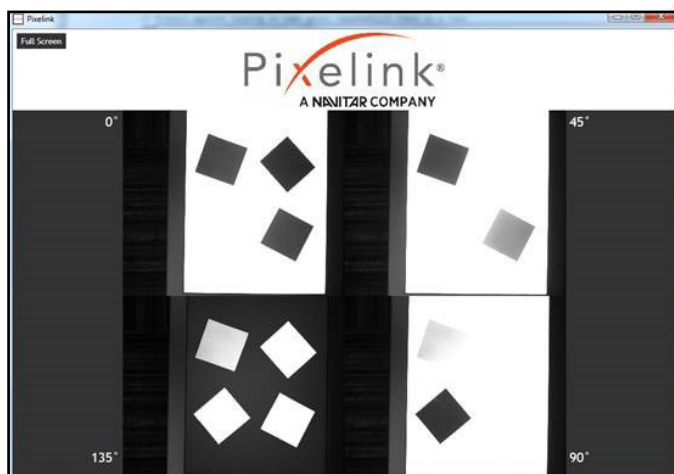
Quad-View with Pixelink Capture

As with all Pixelink cameras, polarized models are compatible with Pixelink Capture, our free, real-time, interactive, multi-camera software application.

Pixelink Capture adds the ability to simultaneously view and analyze all four polarization angles (0°, 45°, 90°, 135°).

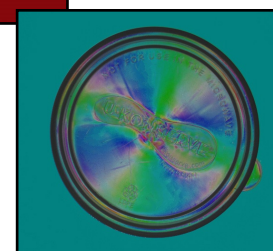
Typical Applications

- Parts Inspection
- Strength/Stress Testing
- Scratch Inspection
- Biometrics



Reading Glasses

HSV Representations



Semi-Transparent Plastic