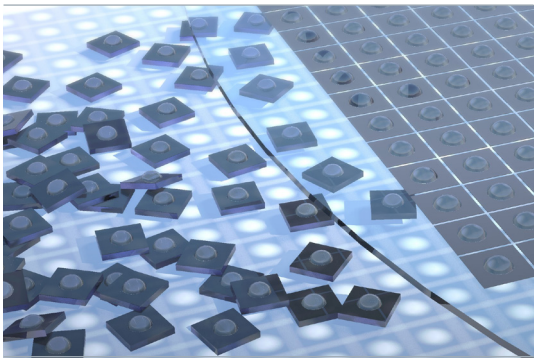
MATERION
// BALZERS OPTICS

Antireflective Coating for Polymer Lenses

Antireflective Coating for imprinted molded Micro Lenses

Optics Balzers has developed highly efficient and environmentally stable multilayer AR coatings dedicated for deposition on UV curable polymers used for lens replication in Wafer Level Optics manufacturing. The multilayer AR designs are optimized for the near infrared and visible range and are partially transparent in UV range to facilitate curing under UV light. All our AR coatings for UV curable polymers have been extensively tested for their environmental stability and durability.



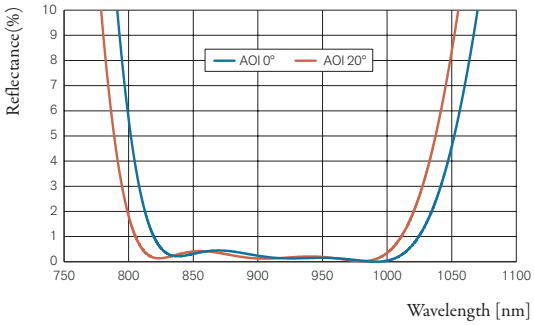
Benefits

- Highly efficient Wafer Level Optics due to elimination of reflected light
- Extensively tested for Consumer Applications

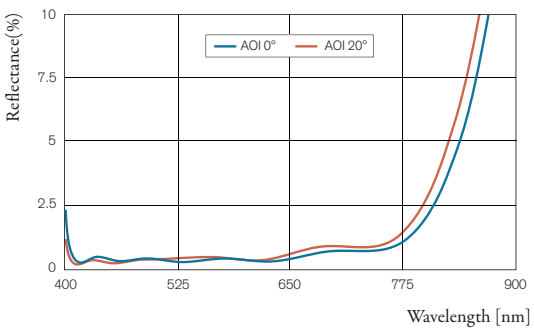
Applications

- Wafer Level Cameras for Mobile Devices and Automotive
- 3D Dot Illuminators
- Microlens Arrays
- Waveguides for Near Eye Displays

Antireflective Coating NIR – Air Side Reflection



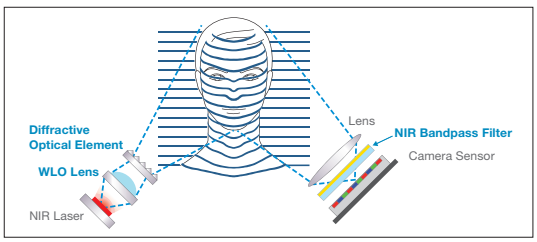
Antireflective Coating VIS – Air Side Reflection



Technical Data

Spectral Specifications NIR	
Rabs < 0,5%, 910–980 nm, AOI = 0–20°	
Spectral Specifications VIS	
Rabs <1,0%, 420–680 nm, AOI = 0–20°	
Supported UV-curable polymers	
Contact us to learn more about the currently supported types of resins	
Substrate Dimensions	
Wafers 150x150 mm or ø150 mm, ø200 mm	
Environmental Tests	
Temp. Cycling	–40 °C...+85 °C
Temp. & Hum. Cycling	–20°...+65 °C / 90% r.H.
High Temp. Soak	+85 °C / 85% r.H.
Heat Soak	+65 °C / 90% r.H.
Cosmetic Specifications	
Scratch / Dig	40/20 (MIL-PRF-13830B)

Structured-Light



Facial Recognition

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