

LiDAR Cover Window

LiDAR Cover Window for Automotive and Consumer Electronics

Materion Balzers Optics' LiDAR cover window products will provide excellent protection for LiDAR sensors. Our coating technology and integration solution enables your projects to achieve great optical and durability performances. We provide customized color solutions, best transmittance solutions for large AOI application, with integrated anti-fog and easy-to-clean solutions. Materion Balzers Optics technology platform is flexible in handling various substrate geometries and materials, enabling window designs to fulfill vehicle stylish design demand.



Benefits

- Low temp AR coating technology specific for LiDAR window
- Covering NIR from 840+nm to 1600+nm
- Neutral color or black color solution
- Full area coating solution
- Topflex™ (Easy-to-clean) integrated
- Heating solution integrated
- Excellent environmental durability for automotive application

Applications

- Automotive
- Aircraft
- Consumer Electronics

Technical Data

Coating Spectrum

AR

T > 99 % in the laser band at normal angle incident
 Ts > 94 %, Tp > 94% in the laser band at AOI = 60°
 T < 2% in the visible range
 R < 0.25% in the laser band for normal angle incident

TopFlex™ (Easy-to-clean)

AR coating with TopFlex™ coating

Wetting angle = 120°

Fluids and dirt do not adhere on the surface

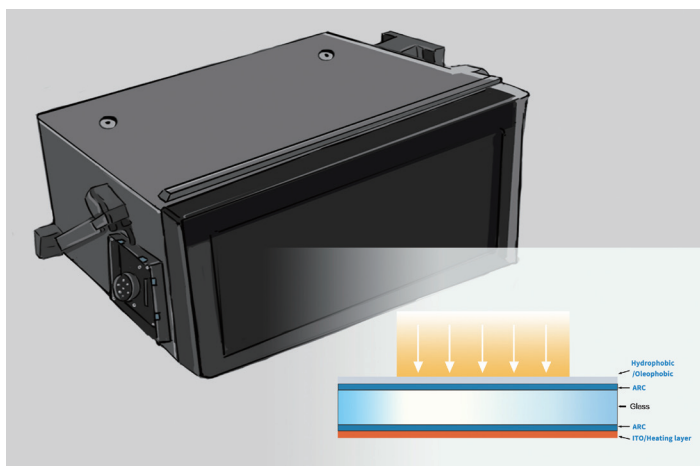
Size

Can be customized, up to 300mm x 300mm

Heating Solution (Optional)

ITO or heating wire, etc

Schematic of LiDAR Cover Window for LiDAR Sensor

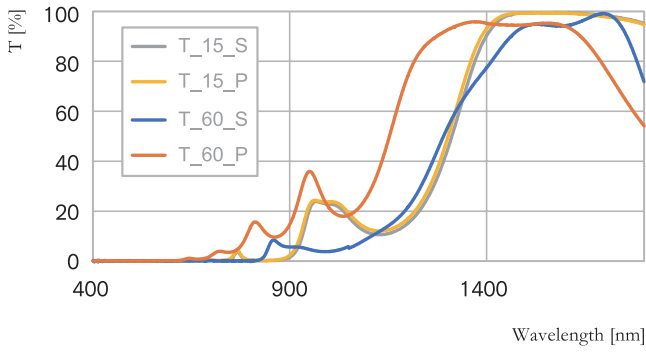


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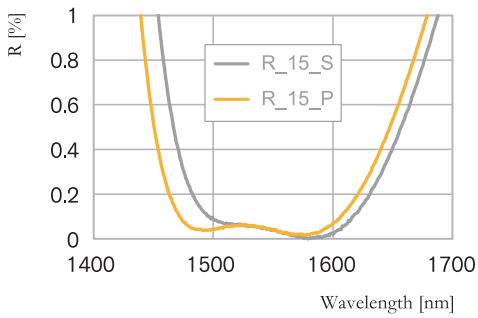
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1550nm LiDAR Window Spectrum Data

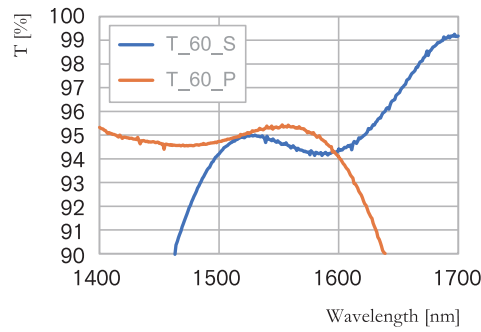
LiDAR cover window Transmittance



LiDAR cover window R_AOI = 15



LiDAR cover window T_AOI = 60



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