

Protective glass windows from SCHOTT ensure high imaging quality and enable reliable 3D scanning of the surroundings. SCHOTT glass windows provide reliable protection to the LiDAR system's sensitive electronics and optics.

SCHOTT protective glass windows are available in black or clear visual appearance combined with highest transmission for your LiDAR wavelength.

RG905, RG1000 and BOROFLOAT® 33 are Cadmium-free glasses ensuring compliance with automotive regulations.

The applied AR coatings enhance transmission, withstand harsh environments and allow you to customize the color appearance to your preference.

#### Laser wavelengths

- 905 nm
- 1320 nm
- 1550 nm

#### **Applications**

- Automotive:
  - ADAS (Advanced Driver Assistance Systems)
  - Robotic cars
- Industrial
- Defense & Space

#### **Optical advantages**

- Optical quality
- · Low wavefront distortion
- Free of birefringence
- · Lowest signal loss for any polarization-state
- Optimized AR for large incident angles
- AR coating with customized reflection color

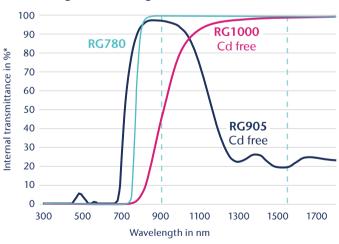
#### Mechanical strength

- Scratch-resistant coating
- · Survives gravel testing
- · High temperature resistant
- UV stability/no solarization
- Temperature-shock resistant
- Suitable for harsh environments

#### **Application support**

SCHOTT is "Your Partner for Excellence in Optics" and an expert to develop, design and choose the right protective glass window solution for your requirements. Please contact us with your specifications.

#### Black filter glasses offer high transmittance from NIR to SWIR



\* The spectral internal transmittance describes the transmittance of the absorbing filter glass without considering reflection losses.



### **Protective Glass Windows for LiDAR**

Protective windows made out of glass offer a longer life-time and a higher optical reliability

# RG filter glasses

- Black visual appearance
- High NIR transmittance and strong absorption in the visible range
- Different thicknesses available 0.3 mm to 6 mm
- Available for 905 nm and 1.300-1.550 nm
- Thermal or chemical **toughening** to increase strength



- Excellent mechanical strength
- Exceptionally high transparency
- High chemical durability
- Outstanding thermal resistance
- Best in class for the gravel test



- AR coating with a hardness close to sapphire
- Outstanding scratch-resistance, ensuring long term performance
- Excellent coating adhesion to surface
- Applied and proven for defense and watch applications
- High transmission in VIS and NIR

## Protective glass windows offer superior long-term optical reliability compared to polymer

