NIR Cutoff Filters / Blue Filter Glass
A product family with two groups that have extraordinary properties

Used in numerous applications, NIR cutoff filters can be found just about everywhere we look in our modern lives. They are equipped to image sensors so that natural colors are produced, and they make digital cameras respond to light as our eyes do. Special NIR cutoff filters are required for any display or operation control when viewed at using a night vision system (NVIS compatible equipment), which are becoming more and more commonly used by police and rescue forces. Depending on the main application, our optical filter glass types are grouped into glasses for mobile applications and glasses for industry applications with high steepness of the NIR cutoff, respectively.

1. Group – Mobile applications

BG60, BG61, BG62, BG66, BG67, BG57
Designed to perform in difficult environments

SCHOTT’s new IR filter glasses have been designed to perform in difficult environments. Equipped with a specified coating, these filters remain completely transparent for more than 1000 hours without any surface corrosion and deliver extraordinary image quality.

Advantages
- Repeatable optical performance due to mass production
- Excellent inner quality, e.g. low striae
- Allows true color imaging
- High NIR absorption at smaller thickness

Applications
- Medical
- Imaging
- Surveillance
- NVIS (night vision) compatible display
- Industrial applications

Forms of Supply
- Matt plates
- Polished filters
- Additional coating, framing and assembly available

<table>
<thead>
<tr>
<th>BG60</th>
<th>BG61</th>
<th>BG62</th>
<th>BG66</th>
<th>BG67</th>
<th>BG57</th>
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<tbody>
<tr>
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<td>cutoff wavelength</td>
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<td>648 nm</td>
<td>644 nm</td>
<td>634 nm</td>
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<td>at thickness</td>
<td>@ 0.3 mm</td>
<td>@ 0.3 mm</td>
<td>@ 0.21 mm</td>
<td>@ 0.21 mm</td>
<td>@ 0.175 mm</td>
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</table>
2. Group – High steepness of NIR cutoff

BG18, BG38 – BG42, BG50, BG55, S8022, S8023, S8612

Designed to perform for high-precision optical applications

For decades, these glasses have been popular because of the excellent optical properties they provide. These optical properties include high transmission in addition to high blocking with a very narrow transition range. Furthermore, these glasses are ideal bandpass filters for visual areas when high absorption in the near infrared (NIR) wavelength range is required. The slope of the IR edge is exceptional, and guarantees a sharp distinction between visible light and NIR radiation.

Advantages

• Extraordinarily high transmittance in the visible range
• High NIR absorption
• Excellent inner quality, e.g. low striae
• Allows true color imaging

Applications

• Medical
• Imaging
• Surveillance
• NVIS (night vision)
• Industrial applications

Forms of Supply

• Polished filters
• Additional coating, framing and assembly available