SCHOTT® Micro-Display and Sensor Bonding
Components and Sub-Assemblies for Imaging Applications

Micro-OLED courtesy of eMagin Corp. with Fiber Optic taper

Micro-OLED with Fiber Optic taper - beam splitter subassembly with 2x magnification

Performance Characteristics

• Optical bonding of Fiber Optic faceplates or tapers to Micro-OLED displays

• Provides design flexibility in order to magnify images in optical systems for near-eye or direct view applications

• Fiber Optic element size is comparable to OLED pixel size to maintain high-resolution imagery

• Images are brought to the top surface through the zero-depth window characteristics

• Customized sizes, formats and magnification ratios (typical magnification range may be up to a factor of 3)

• Glass materials provide inert and durable surface properties for compatibility with optical coatings and bonding materials

• Tapers and faceplates can be finished with convex or concave output surfaces for coupling into custom lens assemblies.

• Available in green or in color.

SCHOTT offers optical bonding of Fiber Optic faceplates and tapers to CCD or CMOS chips. Please contact us for more information.
Sample Applications

- MRI – Medical
- HUD – Field Technicians
- HUD – Surgeons
- Surgical Simulations