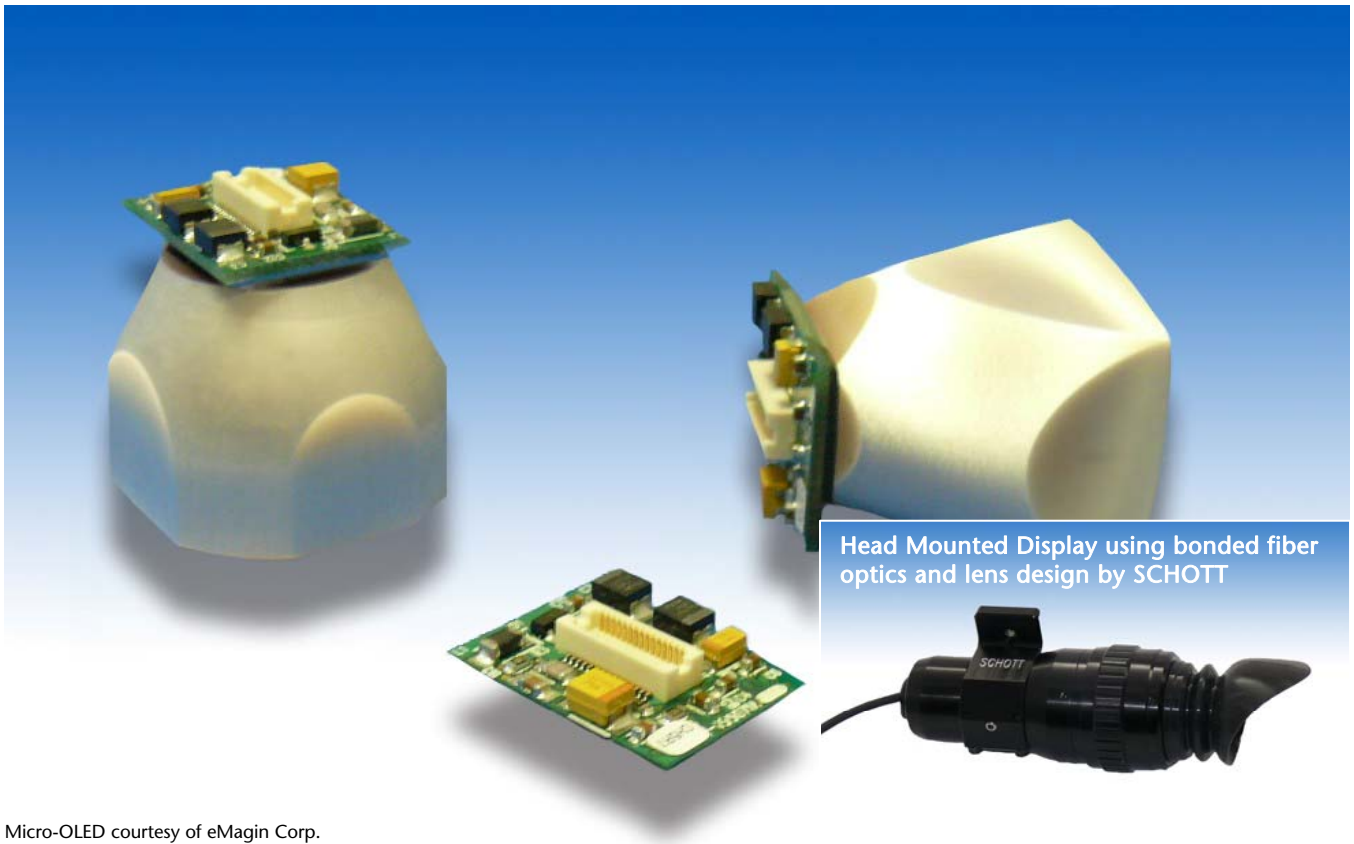


# SCHOTT® Micro-Display Bonding

Components and Sub-Assemblies for Defense Applications



Micro-OLED courtesy of eMagin Corp.

## 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

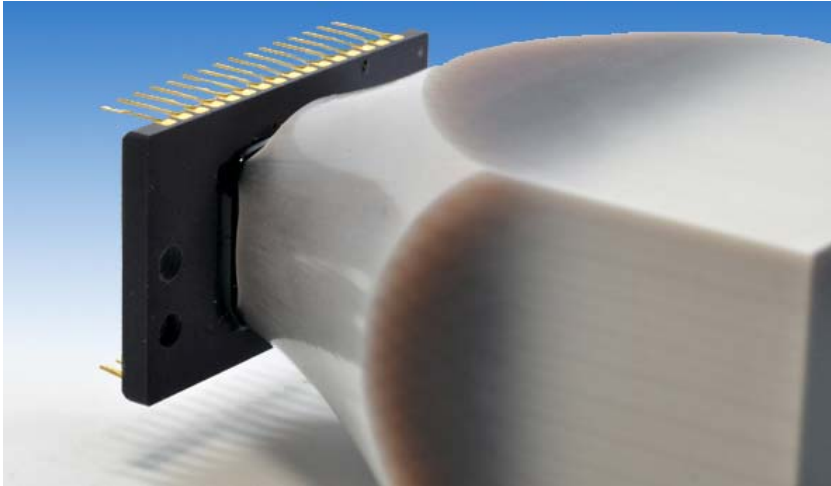
Ruggedized assemblies for demanding environmental applications

Customized sizes, formats and magnification ratios (typical magnification range of >1-3x)

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

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SCHOTT fiber optic taper bonded to a CCD

### Sample Applications (OLED Platform)

HMD (Helmet Mounted Displays)

HUD (Heads Up Displays)

Night Vision Displays

### In Development

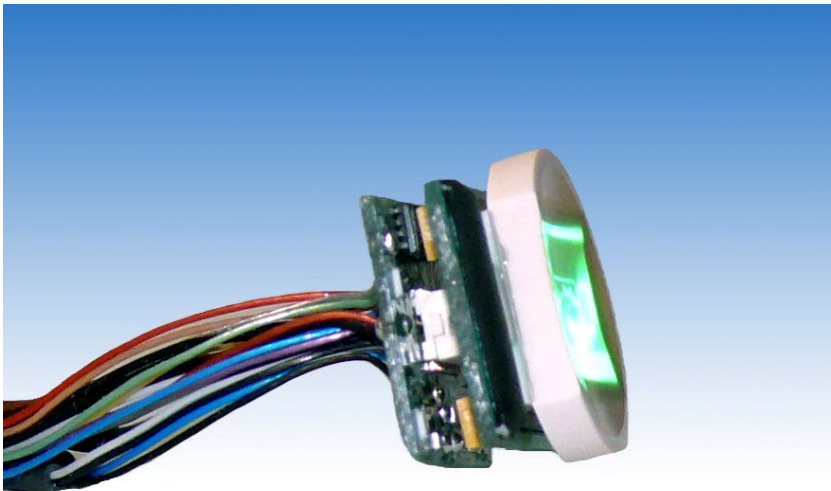
Image Intensifier (I<sup>2</sup>) CMOS Cameras

Digital low-light Surveillance Cameras

Image Intensifier for CMOS Cameras

Vehicle Display

Simulators



SCHOTT fiber optic faceplate with a concave radius bonded to a Micro-OLED



Near-eye imaging from SCHOTT with a Head Mounted Display

#### For more information please contact

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