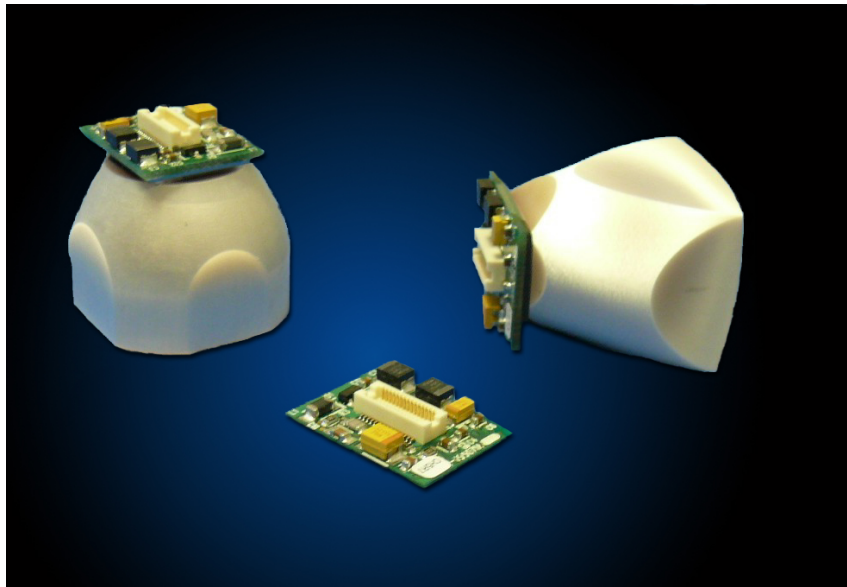


Micro-Display Bonding

Components and Sub-Assemblies for Defense Applications



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



Photograph courtesy of the Department of Defense



Photograph courtesy of the Department of Defense

Performance Characteristics

Optical bonding of Fiber Optic faceplates, tapers and beamsplitters to Micro-Displays

Compatible with LCD, LED and OLED display technologies as well as micro-displays

Provides design flexibility to minimize or magnify images in optical systems

Provides image coupling for analog to digital conversion

No distortion of resolution and optical contrast

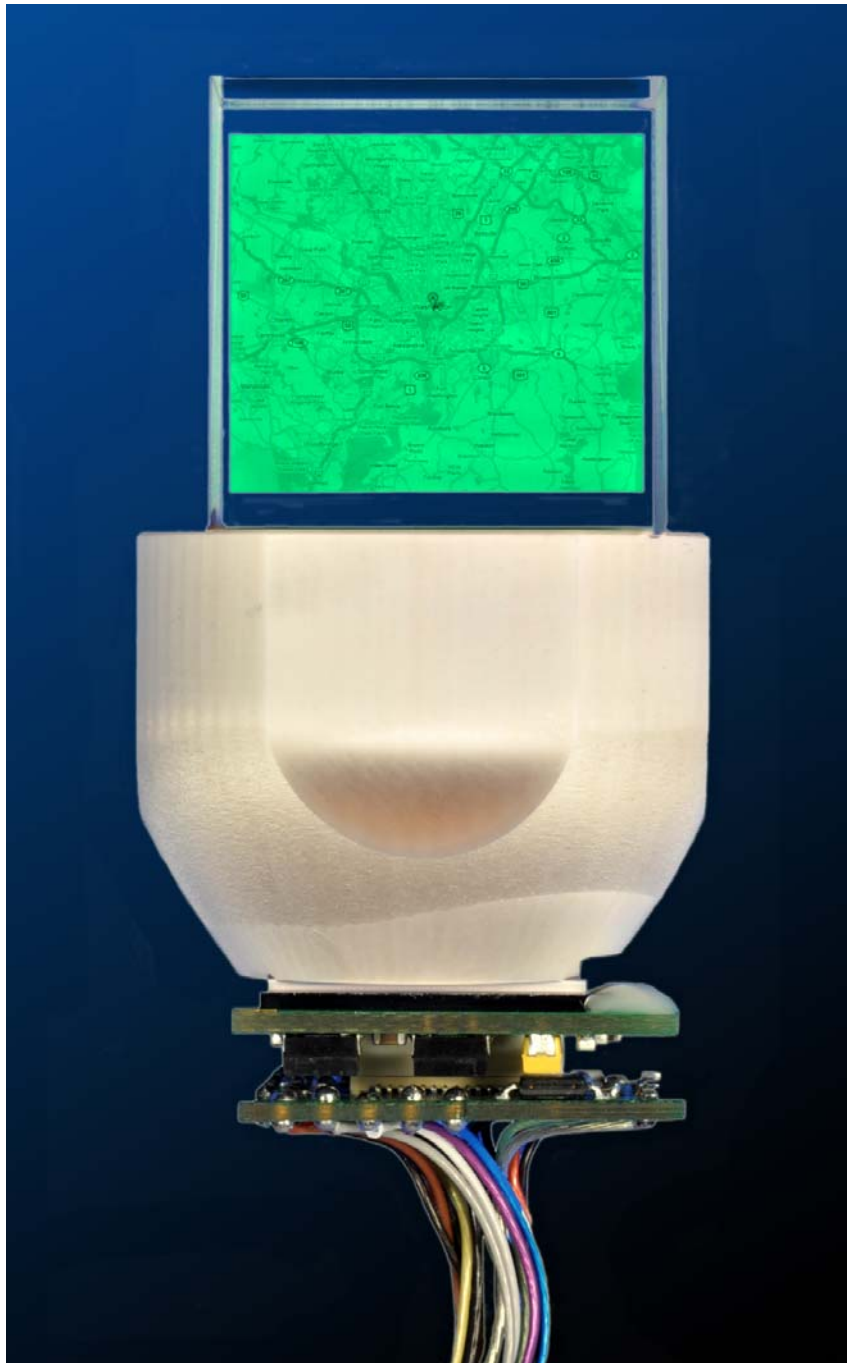
Images are brought to the top surface through the zero-depth window characteristics

More robust than lens assemblies for demanding 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 can be finished with convex surfaces for wide viewing angles or concave surfaces for coupling with lens assemblies



Micro-OLED with Fiber Optic taper - beamsplitter subassembly with 2x magnification

Sample Applications (OLED Platform)

HMD (Helmet Mounted Displays)

HUD (Heads Up Displays)

Night Vision Displays

In Development

Image Intensifier (I²) CMOS Cameras

Digital low-light Surveillance Cameras

Image Intensifier for CMOS Cameras

Liquid Crystal Microdisplay
(LCD Platform)

Other display technologies

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