Transparent Holographic Components (THCs) enable bright, transparent, virtual images to be viewed in products such as augmented-reality glasses, smart glasses, head-up displays, vehicular displays, and near-to-eye displays. Luminit THCs use highly efficient holographic optical elements that direct light beams without the need for bulky and expensive optics. Luminit holographic technologies for near-to-eye or head-up displays use thin (10-30 micron) holographic photopolymer film. The holograms recorded in this film have properties of thick (Bragg) holograms that are wavelength and angle selective, with very low scattering. Their unparalleled transparency (>90%) and diffraction efficiency (>90% at peak) mean that THCs deliver brighter, more compact designs with larger virtual image size for head-up and head-mounted displays.

**Benefits**
- More efficient product design
- Larger virtual image size
- Reduced weight and more flexibility in packaging design
- Reductions in power consumption due to increased efficiency

**Applications**
- Augmented reality & Virtual reality
- Automotive  head up displays on windshields
- Head-mounted displays for off-axis image projection
- Personal wearable display eyewear
- Eye-tracking
- More efficient backlighting on LED and LCD lighting
- Enhanced solar concentrators, optical sensors and spectrometers
- Increased high capacity recording memory
- Automotive interior lighting such as dome and floor lights
- Welcome lighting or mud lights

**Specifications:**
- Material Composition: Polymer thin film on glass or plastic
- Minimum Size: < 1 cm²
- Maximum Size: > 1 ft²
- Thicknesses: 10-30um film on various substrates
- Brightness Uniformity: > 80%
- Substrate: Glass, Acrylic, Polycarbonate
- Diffraction Efficiency: Up to 90%
- Transmission Rate: > 90%

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