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Keywords 



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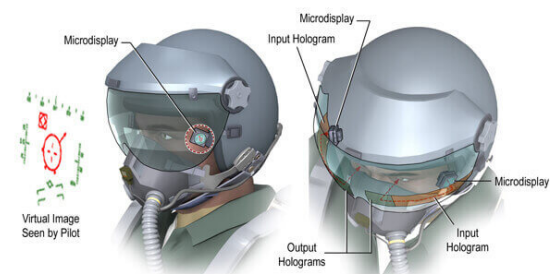
LUMINET TRANSPARENT HOLOGRAPHIC COMPONENTS

Luminet Transparent Holographic Components (THCs) are creating new opportunities for AR smart glasses, head-mounted, Vehicular (https://www.luminetco.com/headup_display_automotive) and Avionics Head-up Displays. Lightweight and highly efficient, the components use holographic optical elements to direct light without the need for bulky conventional optics. Compact form factors (<1.5 liters) are possible that can fit easily within under-dash or combiner designs. These holographic beam diffractive diffusers can be customized to accommodate HUD virtual image distances of 1-meter or farther and work for visible (RGB) to IR wavelengths. Advantages of transparent holographic optical elements include:

- Multi-color images
- Unparalleled transparency above 90%
- High diffraction efficiency above 80%
- Bright virtual images that can be projected in front of vehicles for increased safety
- Luminet Transparent Holographic Components can be mass produced in high-volumes

> THC for Heads up Displays and Wearables

This optical diffuser performs well on heads-up displays for pilots and motorcyclists as well as wearable technology such as smart glasses (https://www.luminetco.com/AR_Holography), augmented reality (AR) and virtual reality (VR). For helmets, THC possibilities include head-mounted displays for off-axis image projection of a high-resolution micro-display through a thin plastic visor. For smart glasses, THC eliminates prism-based optics with fully see-through technology that allows the images to be viewed at a virtual distance without added weight to the user.



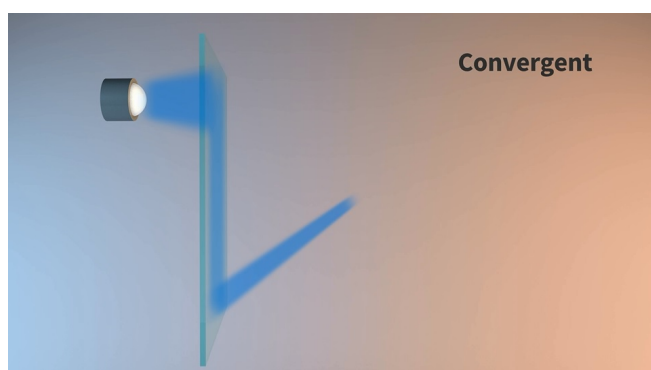
> Transparent Holographic Components for Automotive

When combined with an LED light source, Luminet THC can produce a floating,

transparent image on a car windshield without any obstruction of view. Other uses for THC in automobiles include hiding a light source, such as interior dome lights or center high mount stop light (CHMSL) on the rear windshield. Luminitholography can also be used for branding purposes, such as floor lights or mud lights that can project light as well as the auto manufacturer's logo.

Applications for Luminitholography's Transparent Holographic Components:

- **Automotive**
- **Solar concentrators**
- **Optical sensors**
- **Spectrometers**
- **High capacity recording memory**



(<https://www.youtube.com/watch?v=Tf5ANTV3Yao>)

Click image to see examples of input and output beams using Transparent Holographic Components

Request a Data Sheet (<https://www.luminitholography.com/downloads/data-sheets>) or Contact Us (<https://www.luminitholography.com/contact-us>) for any questions. Visit Luminitholography (<https://www.luminitholography.com/>)

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[Sitemap \(https://www.luminitholography.com/sitemap\)](https://www.luminitholography.com/sitemap)

> **Where Are Our Light Shaping Diffusers?**

Our Light Shaping Diffusers are bending, shaping and enhancing light beams in automotive lighting, exterior/interior lighting, in stages and concert halls, projection systems, monitors and displays, bar code scanners, and more.

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