



## AIRO Helm: Helmet Mounted Display

Cinoptics developed the AIRO series specifically for Augmented Reality applications, particularly effective in hands free procedures. The AIRO Helm is a Helmet Mounted Display (compatible with a wide range of Helmets) with Optical See Through displays for applications that involve Training and Simulation, Navigation, Maintenance support and logistics under various, demanding conditions. The shell is made from a combination of aluminium and plastic making it durable but also lightweight and comfortable to wear for longer period of time.

### Specifications\*:

#### Optical

|                     |                           |
|---------------------|---------------------------|
| Field of view       | 50°(D) - 39°(H)x31.25°(V) |
| IPD adjustment      | Yes (52 - 72 mm)          |
| Dioptric adjustment | Not required              |
| Transparency        | 70%                       |

#### Display

|                    |                    |
|--------------------|--------------------|
| Display technology | FLCoS              |
| Number of displays | 2                  |
| 3D capable         | Yes                |
| Resolution         | 1280 x 1024        |
| Aspect Ratio       | 5:4                |
| Refresh rate       | 60 - 85Hz          |
| Color depth        | 24bpp (true color) |
| Brightness         | Adjustable         |
| Contrast ratio     | 300:1              |
| Display diameter   | 22.4mm (0.88")     |
| Total pixels       | 1.310.720 x RGB    |
| Pixel pitch        | 13.62µm x 13.62µm  |

#### HMD

|               |                             |
|---------------|-----------------------------|
| Interfaces    | 2x DP<br>1x USB<br>1x Power |
| Audio Control | Optional<br>USB             |
| Camera        | Optional                    |
| Head tracking | Optional                    |
| Weight        | 380g                        |
| <b>Power</b>  |                             |
| Input voltage | 12V                         |
| Power         | 7,5W                        |

\*Specifications are subject to change without prior notice

### About Cinoptics:

Cinoptics defines, designs and manufactures Near-to-Eye electronic optical systems for integration in Virtual and Augmented Reality applications. Cinoptics offers a clear perspective on complex technologies. Due to our experience, vision and extensive network we can transform customers specific needs into tangible results.

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