



LOC.31

- Light Optic Cube -
- 30° FoV -

monocular optic see-through



1. Technical Characteristics

The LOC.31 monocular optical see-through HMD is a specialized product designed for Augmented Reality (AR) applications. It is an opto-electronic device that projects an image or streams video using a near-the-eye micro-display and a beam splitter plate. The LOC.31 is used like a standard monitor for computers and no special drivers are needed to operate. The device is equipped with a tinted visor shield, which can be manually lowered to protect against bright environment illumination to give higher contrast on virtual content and make the projected image more readable.

2. Device Operation

The HMD can be ordered in two versions, with either

HDMI connector: The HMD must be plugged in a video source and USB port for power.

or SMD-7: The HMD comes with a mobile control unit.

For further information refer to the SMD-7 product sheet

3. Accessory

We are offering different versions and various accessories for the LOC.31 device. You can choose from a variety of mounting options (helmet, headband), or choose a camera adaptation. More information will be released in our “Accessory”-information sheet. Case color selection and logo printing are also possible, just contact us by e-mail with your special customization request.

4. Technical Specifications ^{*preliminary}

Display	SXGA LCD 1280 x 1024 pixels
Display Color	24 bit RGB color input
Aspect Ratio	5:4
Luminance/Backlight	180 cd/m ²
Contrast Ratio	TBD
Frame Rate	60 Hz
Pixel Response Time	< 8 ms
See-through Optics	70% image reflection, 30% image transmittance
FOV (diagonal)	30 degrees
Focus plane	1m (*can be adapted on order request, e.g. 0,5m, 10m, 150m)
Eye Relief	30 mm (regular glasses can be worn)
Eye Motion Box	8 mm (h) x 6 mm (v)
Audio (optional)	Built-in microphone, mono speaker and headset (*customization see accessory)
Camera (optional)	5MP module with autofocus (see camera information sheet)
Operating Temperature	0° C to +60° C (operating temperature display)
Weight	120 g
Dimensions (W/H/D)	55 mm x 85 mm x 48 mm

Subject to technical modifications



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