



SXGA.62

- Virtual Reality System -
- 2x 45° FoV -

binocular opaque HMD



1. Technical Characteristics

The SXGA.62 HMD is a specialized product designed for Virtual Reality (VR) applications. It is an opto-electronic device that projects an image or streams video through near-the-eye micro-displays. The SXGA.62 HMD is used like a standard monitor for computers with HDMI video output. The device is equipped with two micro LCD displays attached to magnifying optical elements of high quality for each eye.

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 SXGA.62 device. More information will be released in our “Accessory”-information sheet or just contact us by e-mail with your special customization request.

4. Technical Specifications ^{*preliminary}

Display	2x SXGA LCD 1280 x 1024 pixels, 5:4 aspect ratio
Display Color	24 bit RGB color input
Luminance/Backlight	180 cd/m ² each
Contrast Ratio	TBD
Frame Rate	60 Hz
Pixel Response Time	< 8 ms
FOV (diagonal)	45 degrees per eye, 100% overlap
Distortion	< 3 %
Focal plane / Accommodation	2130 mm
Eye Relief	27 mm (regular glasses can be worn)
Eye Motion Box	8 mm (h) x 6 mm (v)
IPD adjustment	56 – 72 mm adjustable
Audio (optional)	Built-in microphone, mono speaker and headset (*customization see accessory)
Camera (optional)	Single or stereo cameras for video see-through available (*on request)
Power Consumption	< 2.5 W (5V taken from USB)
Operating Temperature	0° C to +60° C (operating temperature display)
Weight	220 g
Dimensions (W/H/D)	140 mm x 53 mm x 55 mm

Subject to technical modifications