



**cinemizer** OLED  
**Technical details**  
April 2013



We make it visible.

<b>Image</b>	<ul style="list-style-type: none"> <li>- OLED displays (Organic Light Emitting Diode)</li> <li>- Simulated screen of 40 inch (=1 m) in 2m distance</li> <li>- Aspect ratio 16:9</li> <li>- 2 high resolution displays with 870x500 pixel each (100% fill factor)</li> <li>- 24 Bit RGB color depth</li> <li>- FoV (Field of View): 30°</li> </ul>								
<b>3D support</b>	<ul style="list-style-type: none"> <li>- Side-by-side / Top-Bottom / Line interleaved - see below <b>1) Supported 3D formats</b></li> <li>- Frame Packing at 720p and 1080p (HDMI 1.4)</li> <li>- cinemizer OLED is supported by NVIDIA 3DTV Play™</li> </ul>								
<b>Dioptr setting</b>	continuous prescription setting of -5 to +2 D for each eye								
<b>Interpupillary distance</b>	The optics supports an IPD range of 59 – 69mm								
<b>Input sources</b>	<ul style="list-style-type: none"> <li>- HDMI: 640x480p 60Hz, 720x576p 50Hz, 720x480p 60Hz, 1280x720p 50/60Hz, 1920x1080i 50/60Hz, 1920x1080p 50/60Hz, 1920x1080p 24Hz, HDMI 1.4 3D 1080p 24 Hz, HDMI 1.4 3D 720p 60Hz</li> <li>- AV-In: 3,5mm / 4pin jack for audio &amp; video (PAL/NTSC)</li> <li>- Video capable iPod &amp; iPhone models (30-Pin connector) via optional accessory</li> </ul>								
<table border="1"> <thead> <tr> <th data-bbox="456 837 708 875">iPod</th> <th data-bbox="708 837 967 875">iPod Touch</th> <th data-bbox="967 837 1225 875">iPod Nano</th> <th data-bbox="1225 837 1485 875">iPhone</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 887 708 1032"> <ul style="list-style-type: none"> <li>• iPod with video (iPod 30/60 GB 5th Gen)</li> <li>• iPod Classic 80/120 /160GB 8th Gen</li> </ul> </td> <td data-bbox="708 887 967 1032"> <ul style="list-style-type: none"> <li>• iPod Touch 1st Gen</li> <li>• iPod Touch 2nd Gen</li> <li>• iPod Touch 3rd Gen</li> <li>• iPod Touch 4th Gen</li> </ul> </td> <td data-bbox="967 887 1225 1032"> <ul style="list-style-type: none"> <li>• iPod Nano 3rd Gen</li> <li>• iPod Nano 4th Gen</li> <li>• iPod Nano 5th Gen</li> </ul> </td> <td data-bbox="1225 887 1485 1032"> <ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPhone 3G</li> <li>• iPhone 3GS</li> <li>• iPhone 4</li> <li>• iPhone 4S</li> </ul> </td> </tr> </tbody> </table>	iPod	iPod Touch	iPod Nano	iPhone	<ul style="list-style-type: none"> <li>• iPod with video (iPod 30/60 GB 5th Gen)</li> <li>• iPod Classic 80/120 /160GB 8th Gen</li> </ul>	<ul style="list-style-type: none"> <li>• iPod Touch 1st Gen</li> <li>• iPod Touch 2nd Gen</li> <li>• iPod Touch 3rd Gen</li> <li>• iPod Touch 4th Gen</li> </ul>	<ul style="list-style-type: none"> <li>• iPod Nano 3rd Gen</li> <li>• iPod Nano 4th Gen</li> <li>• iPod Nano 5th Gen</li> </ul>	<ul style="list-style-type: none"> <li>• iPhone</li> <li>• iPhone 3G</li> <li>• iPhone 3GS</li> <li>• iPhone 4</li> <li>• iPhone 4S</li> </ul>	<p data-bbox="97 1106 261 1135"><b>Certificates</b></p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div>
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<b>External connectors</b>	<ul style="list-style-type: none"> <li>- Mini-USB for charging the integrated re-chargeable battery</li> <li>- 3,5mm audio jack for external stereo head phones</li> </ul>								
<b>Audio</b>	Stereo Sound								
<b>Light source</b>	LED-Class 1								
<b>Power supply</b>	<ul style="list-style-type: none"> <li>- Built-in rechargeable lithium-ion battery</li> <li>- Charging via USB; 5 V / 450 mA</li> <li>- Battery life: up to 6h via Apple and AV-In and up to 2.5h via HDMI</li> <li>- Charging time 2.5 hours</li> </ul>								
<b>Weight</b>	<ul style="list-style-type: none"> <li>- Battery-Box: 60 g, HDMI-Adapter 30 g</li> <li>- Weight on your nose approx. 75 g</li> <li>- Video glasses approx. 120 g</li> <li>- Delivery package approx. 850 g</li> </ul>								
<b>Ambient conditions</b>	<ul style="list-style-type: none"> <li>- Operation at 5 °C to 35 °C</li> <li>- Storage and transport at -20 °C to 45 °C</li> <li>- Humidity 10–80%, non-condensing</li> </ul>								
<b>Delivery package</b>	<ul style="list-style-type: none"> <li>- Cinemizer OLED incl. re-chargeable battery</li> <li>- Cinemizer HDMI Adapter</li> <li>- Nose pad plus 2 nose pad adapter</li> <li>- USB-Cable</li> <li>- AV-video-cable (3,5mm 4pin to 3 x Cinch)</li> <li>- Quick Guide and safety handling</li> <li>- Headphones</li> <li>- Travel case</li> <li>- HDMI to Mini-HDMI Adapter-Cable</li> </ul>								

<b>Dimensions</b>	Glasses: high: 36mm, width: 160mm, depth: 190mm (open), 65mm (closed) Retail package: 230mm x 175mm x 80mm (WxHxD)
<b>EAN Code</b>	4047865190220
<b>Countries</b>	Europe incl. Swiss, Russian, USA, Canada, Mexico, Brazil, UAE, Turkey, China, South Korea, Japan, India, Australia, Singapore

### 1) Supported 3D Formats

Connection	Video source	Resolution	Video mode	3D format			
				Side-by-side	Top/bottom	Line interleave	HDMI® 1.4
External AV In	3.5 mm	720 x 576i	PAL composite	✓	-	-	-
		720 x 480i	NTSC composite	✓	-	-	-
iPod/iPhone adapter	iPhone (1G)	720 x 576i 720 x 480i	Component interlaced 576i / 480i	✓	-	-	-
	iPod touch 1G			✓	-	-	-
	iPod 5th gen			✓	-	-	-
iPod/iPhone adapter	iPhone 3G/3Gs	720 x 576p 720 x 480p	Component progressive 576p / 480p	✓	✓	-	-
	iPhone 4			✓	✓	-	-
	iPod touch 2G/3G			✓	✓	-	-
	iPod nano 3G - 5G			✓	✓	-	-
HDMI® adapter	HDMI® playback device	480p/576p	SD	✓	✓	-	-
		1280 x 720p 50/60Hz	HD ready 720p	✓	✓	-	-
		1920 x 1080i 50/60Hz	HD 1080i interlaced	✓	-	-	-
		1920 x 1080p 50/60Hz	Full HD 1080p	-	✓	✓	-
		1920 x 1080p 24Hz	Full HD 1080p24 (cinema)	-	-	-	-
		1920 x 1440p 60Hz	HDMI® 1.4 720p frame	-	-	-	✓
1920 x 2160 24Hz	HDMI® 1.4 1080p frame	-	-	-	✓		

Table 1 - 3D formats supported by the *cinemizer*<sup>OLED</sup> multimedia video glasses (recommended 3D formats ✓)

iPhone and iPod are trademarks of Apple Inc. registered in the U.S. and other countries.

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