28-inch Interactive Glasses-Free 3D/XR Monitor SpecificationV1.0

Apply to

S090L028-C0

S090L028-C1

S090L028-E1

Revision History

Version	Data	Revision
V1.0	2022-12-14	Initial release.

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1. Instruction

This device series is a glasses-free 3D/XR display independently developed by our company with independent intellectual property rights. It is used to provide 4K glasses -free 3D color video display for images from computer host/ game console system and other compatible imaging systems.

This device adopts the industry's leading intelligent 3D image processing algorithm with fully independent intellectual property rights, human eye tracking technology based on deep learning and ultra-high-definition display technology, which can present a clear, realistic and comfortable glasses-free 3D visual effect.The product is embedded with a six-degree-of-freedom optical tracking system and millimeter-level positioning accuracy, enabling desktop-level high-precision AR interactive operations.

This device overcomes the limitations of the 2D display can not 3D imaging, wear glasses 3D display need to wear glasses, image distortion, visual fatigue, glasses fogging, etc. Providing users with UHD, real, and comfortable stereoscopic images. Suitable for engineering design, K12/ vocational school/general higher education teaching, medical teaching, military simulation and other applications.

2. Features

High Brightness and High Resolution 4K Panel

The 4K high resolution panel and high brightness or extra-wide field of view technology enable you to use this monitor in a variety of (mounted on a wall, etc.) under different lighting conditions. Clearer display of motion images in video signals thanks to high color reproduction filters and liquid crystal materials with high responsiveness.

Glasses-free 3D Display Technology

- Deep learning-based human eye tracking technology has the advantages of fast recognition, high tracking stability and good tracking in real time, thus ensuring that you can arbitrary position to view 3D images.
- Intelligent 2D/3D switch, the user deviates from the 3D viewing range automatically switch 2D; 3D is automatically switched when there are users watching, and 2D is automatically switched when there are no users watching.

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- Intelligent 3D image processing algorithm can render 3D images in real time according to your spatial position, so that you can watch real and comfortable 3D images without wearing glasses.
- Intelligent pupil distance matching, suitable for people with different pupil distance to watch.
- 3840*2160 resolution 3D imaging system, images are clearer and more natural.
- 3D images are free of crosstalk, delay, and dithering.

3. Specifications

Picture Performance	
Panel	a-Si TFT-LCD
Screen Size (Diagonal)	28inches (Diagonal)
Active Area（H×V）	648.9×369.3mm
Resolution（H×V）	3840 x RGB x 2160 pixels
Pixel Pitch	0.16×0.16mm
Contrast Ratio	1000:1(Type)
Panel Luminance, White	300cd/m^2(Type)
Aspect Ratio	16:9
Color Depth	10bit
Display Colors	1.073G
Color Gamut	72% NTSC
Backlight	LED
Viewing Angle	89°/89°/89°/89°(Type)
Video interface	
HDMI Input	HDMI 2.0x 2 .Support side by side 3D,line by line 3D.Support 4K@60Hz
DP Input	DP 1.2 x 2.Support side by side 3D, line by line 3D.Support 4K@60Hz
Glasses-Free 3D Parameters	
Viewing Distance	60cm – 150cm
Best Viewing Distance	90cm – 110cm
Best Viewing Angle	30°（H）42°（W）
Stereo Processor	Independently designed intelligent 3D image processor
Eye Tracking	Intelligent 3D human eye detection and tracking

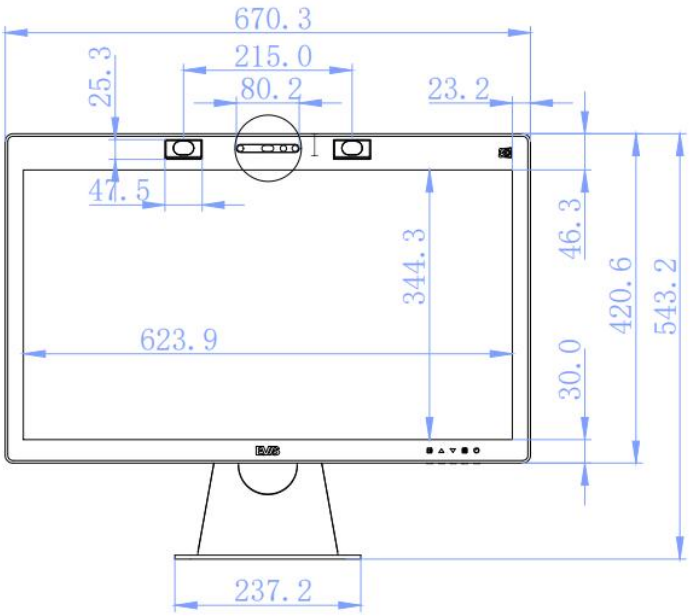
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	technology based on depth learning
Grating Type	OGS Lenticular Grating
Wear Masks	Support
Intelligent 2D/3D switch	Intelligent 2D/3D switch, automatic 3D switch when someone is watching; Switch 2D without anyone watching
3D Video Format	Support side by side 3D/line by line 3D
2D Video Format	Support universal 2D video formats
Best Parallax	Horizontal parallax≤5.8%, Vertical parallax 0%
interactive pen Parameters	
Physical Size	Length 168.8mm Diameter 17.15mm （max）
Spatial Degrees of Freedom	six-degree-of-freedom
Space Accuracy	≤±2mm
Scope of Use	1000-2500mm(W) 630-1800mm(H) 250-1350mm(D)
Number of Keys	Three
Interface	USB2.0
Infrared Camera	1080P@30Hz
Electronic Parameters	
Power Supply	100-240VAC，50/60Hz
Rated Power Consumption	60W
Operating Temperature	0°C - 35°C
Operating Humidity	20% - 90%, No Condensation
Storage Temperature	-20°C - 60°C
Storage Humidity	10% - 90%, No Condensation
Installation Specification	
Dimensions (without mount/base)	670.3(W)*420.6(H)*57(D)mm
Weight (without mount/base)	10.8KG
Installation	Mount/base 100 x 100 mm VESA

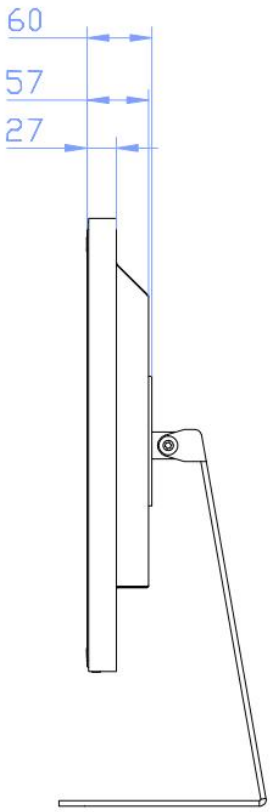
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4. Dimension

Unit:/mm



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