55-inch Glasses-Free 3D Multimedia Advertising Machine Product SpecificationV1.2

Apply to

N090L055-B1

Revision History

Version	Data	Revision
V1.0	2022-12-14	Initial release.
V1.1	2023-01-16	Change the brightness from 520cd/m2 to 500cd/m2
V1.2	2023-4-13	Change the submodel from E1 to B1

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1. Instruction

This product is a new generation of ultra-high definition, and multi-views glasses-free 3D media advertising machine independently researched and developed by the company.

This product adopts OGS Lenticular-lens grating technology and EVT803 stereoscopic video processor is with independent intellectual property rights ,which can realize real-time conversion and processing of dual-views video signals to multi-views (up to 54) video signals, support universal 3D video formats and the video interface and also realize high-quality glasses-free 3D display without any additional software and equipment. This product adopts a number of industry-leading video processing technologies to achieve a strong stereoscopic, high-definition, high-brightness, and bright-colored glasses-free 3D display effect.Suitable for advertising media、exhibition and display etc.

2. Features

High Brightness and High Resolution 4K Panel

The 4K high resolution panel and high brightness/extra-wide field of view technology enables you to use this advertising machine in a variety of （mounted on a wall, using multiple advertising machine to view a single image, 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

- Unique multi-views technology, which can achieve ghost-free, strong stereoscopic, high-definition, high-brightness, glasses-free 3D display, and the technology has reached this industry leading level.
- The real and comfortable 3D effect and the perfect 3D experience can effectively improve the audience's willingness and interest to watch. Compared with the 2D advertising machine, the audience's attention to the advertising content increases several times.
- Automatic recognize and playback of universal 2D,side by side 3D, multi-views 3D, can be seamlessly compatible with mainstream 3D formats on the market.

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- 4k@60Hz hard decoding，effectively slow down the problems caused by motion blur and image drag shadow, the image is smoother, more clear and natural.
- Support 2D video automatically transfer to 3D playback function.

3. Specifications

Picture Performance				
Panel	a-Si TFT-LCD			
Screen Size (Diagonal)	55inches (Diagonal)			
Active Area（H×V）	1209.6×680.4mm			
Resolution（H×V）	3840 x RGB x 2160 pixels			
Pixel Pitch	0.315×0.315mm			
Contrast Ratio	4000:1(Type)			
Luminance, White	500cd/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)			
Display Driver Board Parameters				
Operating System	Android 5.1			
CPU	HI3751V600 ARM Cortex-A53 four core			
GPU	six core ARM Mali-450			
RAM	DDR3 2GB			
Memory	eMMC 8GB			
Audio	Stereo left and right channels			
HDMI Input	HDMI 2.0 x 1 Support 4K@60Hz, downward compatible HDMI 1.4 x 1 Support 4K@30Hz, downward compatible			
USB Input	USB3.0×1 USB2.0×1			
Network Input	RJ45×1,10M/100M,DHCP			
Audio Output	3.5mm headphone jack，100Hz~15KHz @±3dB (1KHz, 0dB reference signal)			
Media Format	**VIDEO**	.mpg	MPEG-1,MPEG-2	MP3 , AAC, AC3, AC3+
		.avi	MPEG-4 SP/ASP MPEG-4 H AVC(H.264)	
		.ts	MPEG-2	
		.mov/.mkv	MPEG-4 SP/ASP(Xvid) MPEG-4 H AVC(H.264)	
		.mp4	MPEG-4 H AVC(H.264)	

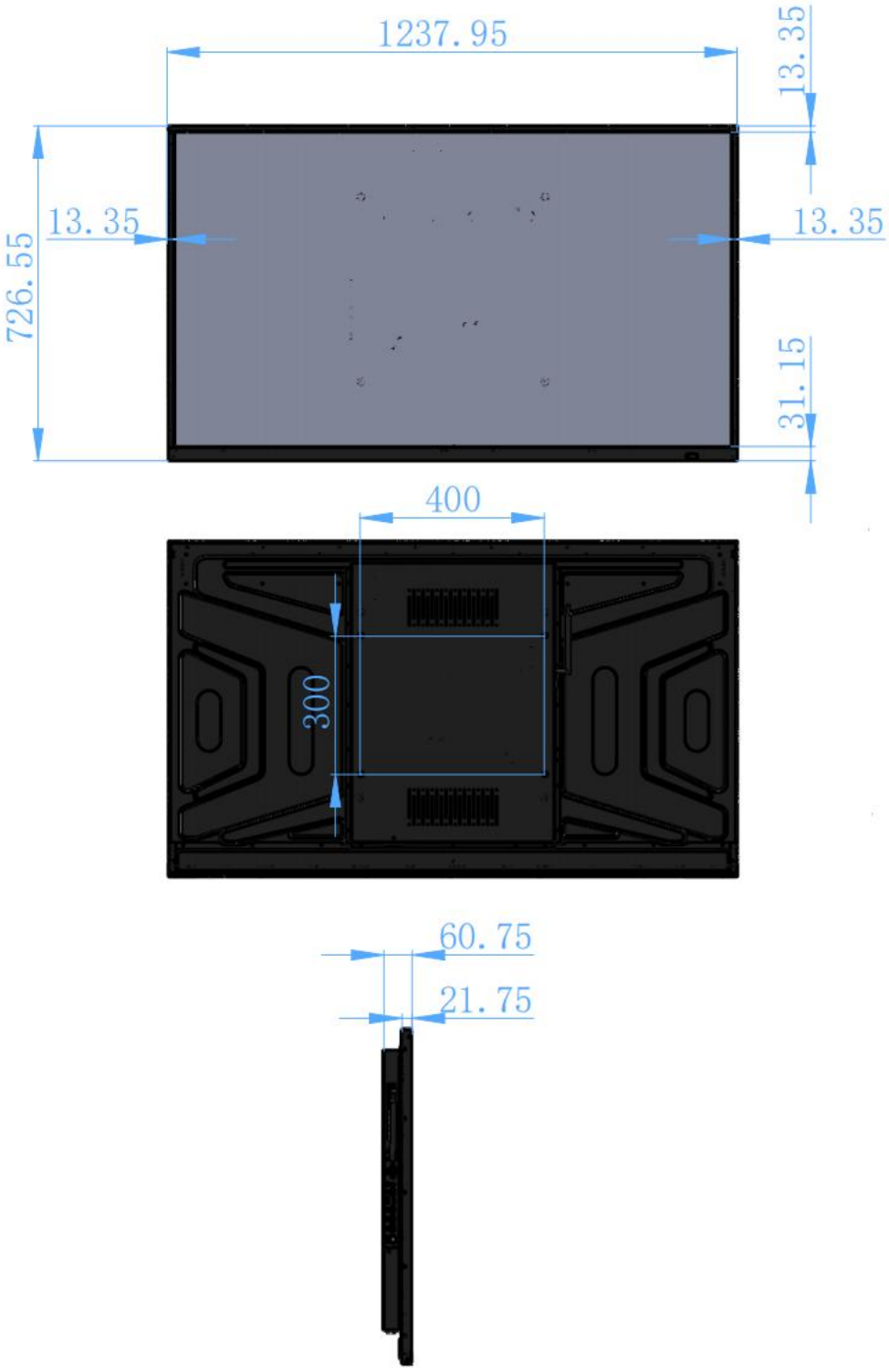
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		.dat	MPEG-	
		.vob	MPEG-1 MPEG-2	
		.asf	VC-1	
	AUDIO	Dolby Digital, Dolby Digital Plus, Dolby TrueHD ;DTS, DTS-HD MPEG L1/L2 ;MP3 ;AAC_LC,HE_AAC,HE_AACV2 ;DRA ; ReadAudio ;LPCM ;APE ;FLAC ;OggVorbis ;AMR-NB ;AM R-WB; G.711(u/a)		
	IMAGE	Support JPEG hardware decoding, the maximum support 64 million pixels; Supported format: 400/420/411/422/422T/444; Support MJPEG Baseline decoding; Support PNG hardware decoding, the maximum support 64 million pixels; Supported format: Gray image/true color image/indexed color image/Gray image with α channel data/true color image with α channel data.		
Glasses-Free 3D Parameters				
Best Viewing Distance	＞3.5m			
Horizontal View Angle	178°			
Best Viewing Angle	±45°			
Grating Type	OGS Lenticular Grating			
Number of Viewpoints	Multi-views (Up to 54)			
Best Parallax	horizontal disparity ≤5.8%, vertical disparity 0%			
3D Video Format	Support side by side 3D / multi-views 3D			
2D Video Format	Support universal 2D video formats			
2D to 3D Convert	Support convert 2D video to 3D automatically converts			
Electronic Parameters				
Power Supply	100 - 240Vac (50Hz-60Hz)			
Rated Power Consumption	130W			
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)	1237.95(W)*726.55(H)*60.75(D)mm			
Weight (without mount/base)	40KG			

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Installation	Mount/base 400 x 300 mm VESA

4. Dimension



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