Inverted COB LED Display

Product Series: Inverted COB

Department: Technical Department

Version: A0

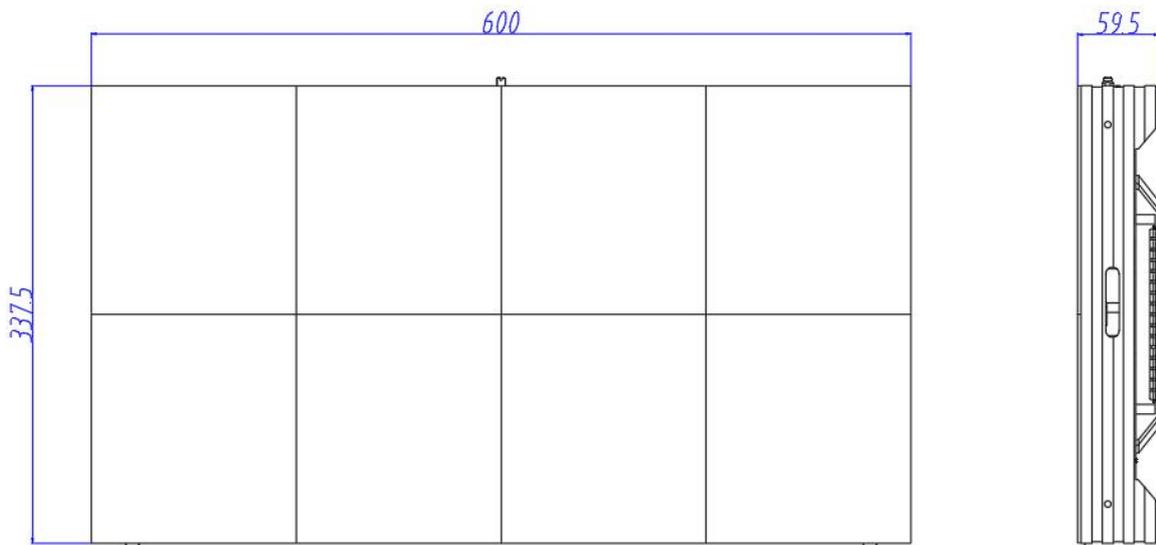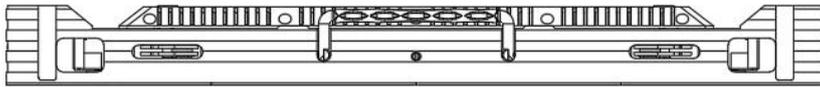**Update Date: 2023.3**

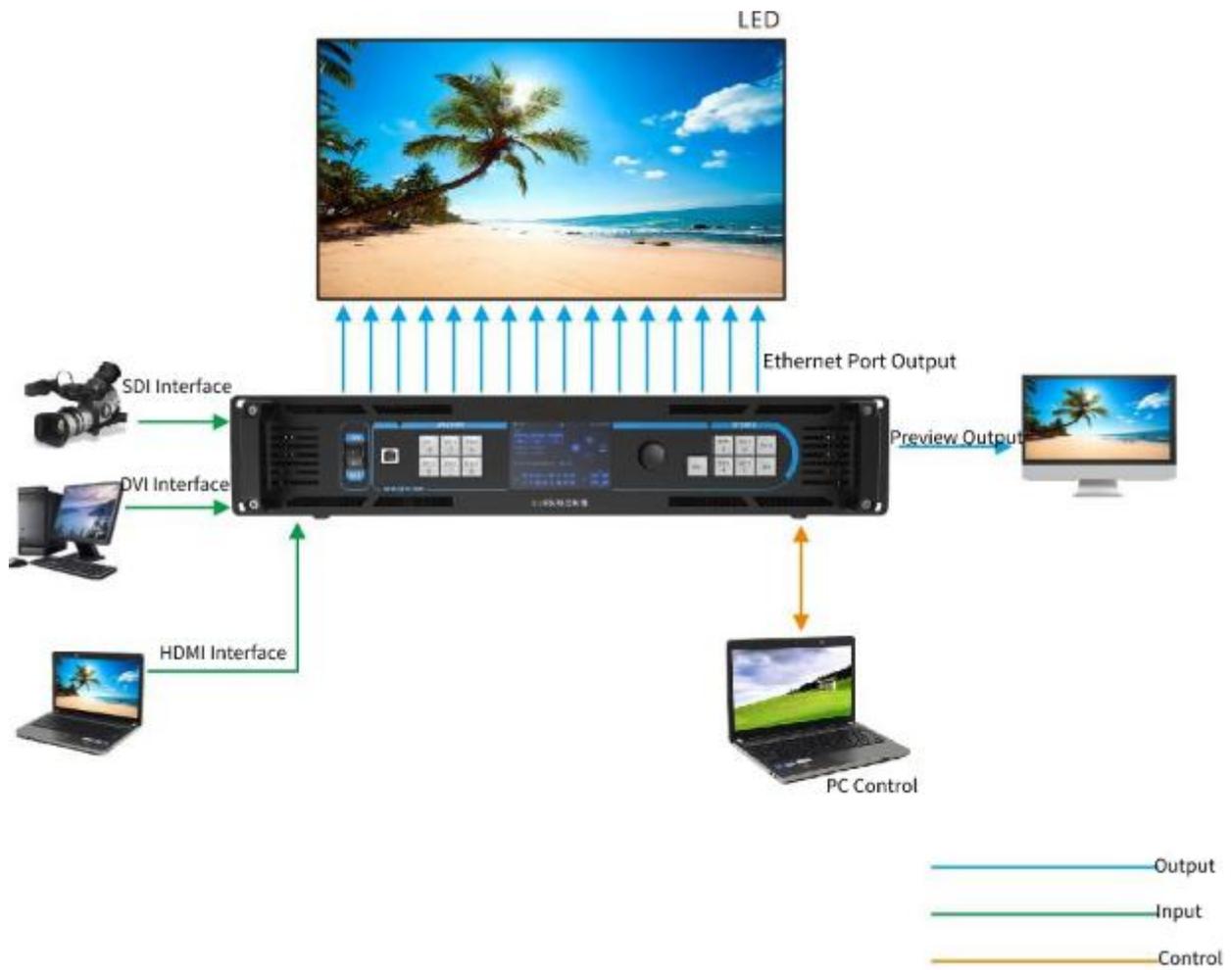# Catalog

I. Product Illustration

II. Product Features

(1) RGB full inverted COB

(2) Unit aspect ratio 16:9, enabling point-to-point splicing at 720P, 1080P, 4K, 8K and above;

(3) Ultra-high reliability rate, pixel failure rate less than 5PPM;

(4) Anti-knock, moisture-proof;

(5) Common shade solution, fast heat dissipation, low power consumption, longer life;

(6) Ultra-high contrast ratio, large viewing angle, good module consistency, non-reflective;

(7) No bracket design, simplify the process, better quality control;

(8) Low brightness and high gray design: 14bit or more gray scale display under 300nits brightness;

(9) 15000:1 maximum contrast ratio and 16.7M high color reproduction display;

(10) The unit is made of cast aluminium, easy to dissipate heat, light weight and high precision;

(11) Maintainable in front and rear of the product;

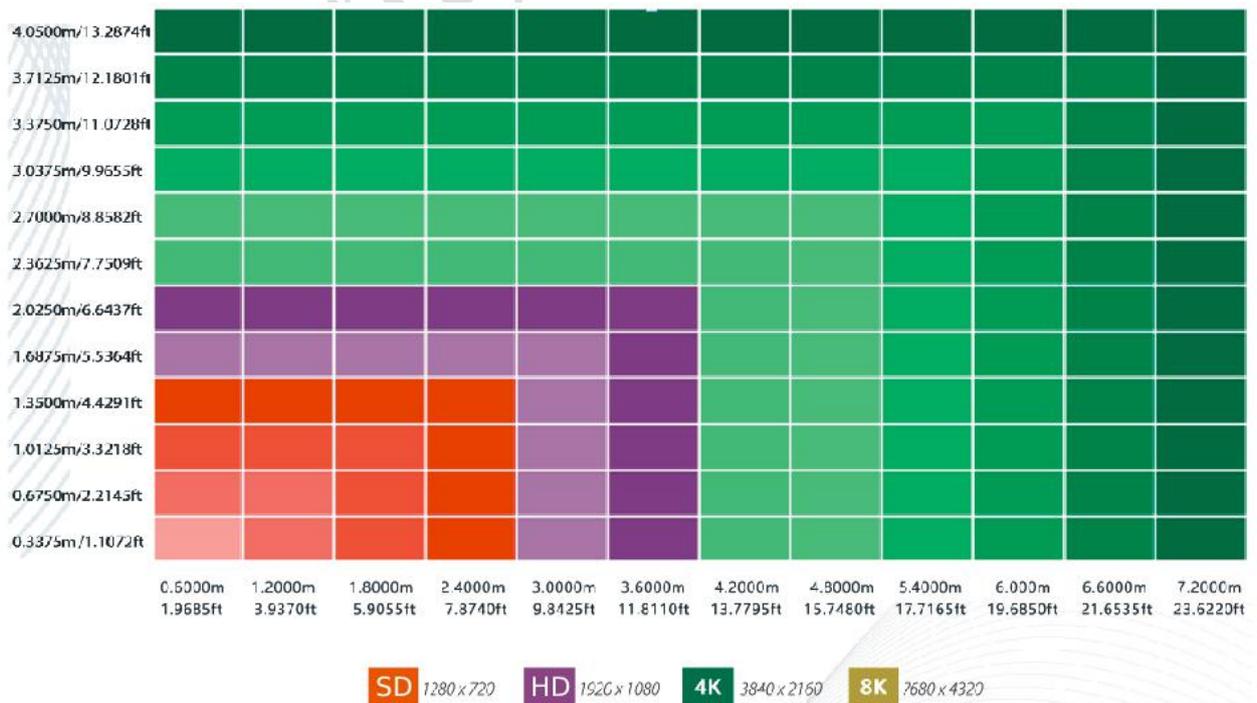(12) Fanless and silent design.

III. Product Detailed Parameters

	Model Number	AE007	AE009	AE012	AE015
Unit Parameters	Parameter Name	P0.7	P0.9	P1.2	P1.5
	Pixel Pitch (mm)	0.78mm	0.9375mm	1.25mm	1.5625mm
	Pixel Configuration	RGB	RGB	RGB	RGB
	LED Type	Inverted COB	Inverted COB	Inverted COB	Inverted COB
	Pixel Density	1638400 pixels/㎡	1,137,777 pixels/㎡	640000 pixels/㎡	409600 pixels/㎡
	Unit Size(WxH)	600mm *337.5mm	600mm *337.5mm	600mm *337.5mm	600mm *337.5mm
	Unit Resolution	768*432Dots	640*360Dots	480*270Dots	384*216Dots
	Unit Ratio	16:9	16:9	16:9	16:9
	Unit Weight	6.4kg/panel	7.5kg/panel	7.5kg/panel	6.5kg/panel
	Drive Mode	Constant current driver	Constant current driver	Constant current driver	Constant current driver
	Materials	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum	Die-cast aluminum
	Maintenance Type	Front / Rear maintenance	Front / Rear maintenance	Front / Rear maintenance	Front / Rear maintenance
Optical and Electrical Parameters	Brightness (Max.)	0-600nit	0-600nit	0-600nit	0-600nit
	Unit Power (Max.)	120w	90w	90w	120w
	Unit Power (Typical)	40w	30w	30w	40w
	Color Temperature (Adjustable)	3000K ~10000K	3000K ~9000K	3000K ~9000K	3000K ~10000K

	Viewing Angle	H: ≥160°; V: ≥160°	H: ≥170°; V: ≥170°	H: ＞165°; V: ＞165°	H: ＞165°; V: ＞165°
	Max Contrast Ratio	15000:1	15000:1	15000:1	8000:1
	Brightness Control	Manual /automatic	Manual /automatic	Manual /automatic	Manual /automatic
	Input Voltage	AC 100~240V	AC 100~240V	AC 100~240V	AC 100~240V
	Input Power Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Processing Performance	Processing Depth (bits)	13bit	13bit	13bit	13bit
	Gray Scale	16384levels per color	16384levels per color	16384levels per color	16384levels per color
	Color	4.3980trillion	4.3980trillion	4.3980trillion	4.3980trillion
	Frame Rate	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Refresh Frequency (Hz)	≥3840Hz	≥3840Hz	≥3840Hz	≥3840Hz
Usage Parameters	Recommended Viewing Distance	2M	2M	2M	2M
	Operating Temperature	-10°C~+40°C /10~90%RH	-10°C~+40°C /10~90%RH	-10°C~+40°C /10~90%RH	-10°C~+40°C /10~90%RH
	Storage Temperature	-20°C~+60°C /10~60%RH	-20°C~+60°C /10~60%RH	-20°C~+60°C /10~60%RH	-20°C~+60°C /10~60%RH
	Communication Connection	CAT5 cable transmission(L≤100m); Single-mode fiber(L≤15km)			
Statement: Power is for reference only, the specific to the actual prevail, specifications are subject to change without notice.					

IV. Product Topology Diagram

V. Assembly Diagram

VI. Precautions

Before using this product, please read and understand the following precautions carefully, and keep them properly for future inquiries!

(1)Before operating the LED TV, please read the manual carefully, and abide by the regulations on safety precautions and related instructions.

(2)Guarantee that you can understand and comply with all safety guidelines, tips and warnings and operating instructions, etc.

(3)For product installation, please refer to the "Display Installation Manual".

(4)When unpacking the product, please refer to the packaging and transportation diagram; take out the product; please handle it with care and pay attention to safety!

(5)The product is a strong power input, please pay attention to safety when using it!

(6)The ground wire should be safely connected to the ground with reliable contact, and the ground wire and zero wire should be isolated and reliable, and the access to the power supply should be far away from the high-power electrical equipment.

(7)Frequent power switch tripping, should be timely check and replace the power switch.

(8)The product can not be closed for a long time, it is recommended to use once every half month, 4 hours of power; in high humidity

environment, it is recommended to use once a week, 4 hours of power.

(9)If the screen has not been used for more than 7 days, the preheating method should be used every time. The screen is lit: 30%-50% brightness is preheated for more than 4 hours, then adjusted to normal brightness 80%-100% to light up the screen body, and the moisture will be excluded, so that no abnormalities in use.

(10)Avoid turning on the LED TV in full white state, because the inrush current of the system is the largest at this time.

(11)Dust on the surface of the LED display unit can be gently wiped with a soft brush.