

Genture Electronics

Dedicate itself to LED innovation & application



Product Manual

---Ultra-fine Pixel pitch Display



Part 1 Ultra-fine pixel pitch display

1.1.1 Product Overview

■RELIABILITY

COB (Chip On Board) integrated encapsulation, no reflow soldering, no harm, with Die-casting aluminum alloy cabinet

■ SEAMLESS SPLICING

Real seamless splicing to any size requirement, replace DLP and LCD perfectly

■DOT-BY-DOT CALIBRATION

Ensures an optimized brightness uniformity

■WIDE VIEWING ANGLE 170°

Creative viewing angle technology, horizontal&vertical170°

■HIGH REFRESH RATE

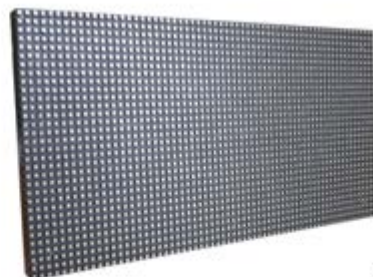
Refresh rate 3000 Hz ensures the scanning line will not be captured by cameras, which is suitable for TV station and stage

■ High IP Rating

Protection grade reach up to IP54, surface light source, easy to clean.



COB ultra-small pixel pitch screen



Traditional SMD screen

1.1.2 Specifications

Parameters		JX-COB-1.25	JX-COB-1.5	JX-COB-1.875	JX-COB-2.5
Pixel	Pixel configuration	RGB	RGB	RGB	RGB
	Pixel Pitch (mm)	1.25	1.5	1.875	2.5

	Pixel Density (Pixel/m ²)	640000	444444	284444	160000
Module	Module Resolution (W/Pixel × H/Pixel)	192 × 192	160 × 160	128 × 128	96 × 96
	Module Size (W/mm × H/mm)	240 × 240	240 × 240	240 × 240	240 × 240
Cabinet	Resolution (W/Pixel × H/Pixel)	384 × 384	320 × 320	256 × 256	192 × 192
	Dimension (W/mm × H/mm)	480 × 480	480 × 480	480 × 480	480 × 480
	Material	Aluminum Die-casting Alloy	Aluminum Die-casting Alloy	Aluminum Die-casting Alloy	Aluminum Die-casting Alloy
	Weight (kg/Pcs)	8.5	8.5	8.5	8.5
	Cabinet Area (m ²)	0.2304	0.2304	0.2304	0.2304
	Screen Weight (kg/m ²)	37	37	37	37
	Cabinet Flatness(mm)	≤0.2	≤0.2	≤0.2	≤0.2
	Maintenance	REAR	REAR	REAR	REAR
Optics	Dot-by-Dot Calibration	Available	Available	Available	Available
	Brightness cd/m ²)	≥600 (@9300K, Calibrated)	≥600 (@9300K, Calibrated)	≥600 (@9300K, Calibrated)	≥600 (@9300K, Calibrated)
	Brightness Adjustment	256 Grades Manually / Automatically	256 Grades Manually / Automatically	256 Grades Manually / Automatically	256 Grades Manually / Automatically
	CT (K)	3000 — 10000 Adjustable	3000 — 10000 Adjustable	3000 — 10000 Adjustable	3000 — 10000 Adjustable

	Viewing Angle (°)	175 Horizontal/ Vertical	175 Horizontal/ Vertical	175 Horizontal/ Vertical	175 Horizontal/ Vertical
	Brightness Uniformity	≥ 95%	≥ 95%	≥ 95%	≥ 95%
Power	Max Power Consumption (W/Cabinet; W/m2)	130/600	130/600	130/600	130/600
	Power Consumption (W/Cabinet; W/m2)	40/200	40/200	40/200	40/200
	Input Voltage	AC110~240V (50-60Hz)	AC110~240V (50-60Hz)	AC110~240V (50-60Hz)	AC110~240V (50-60Hz)
System Process	Driving Mode	Constant (1/32 Scanned)	Constant (1/20 Scanned)	Constant (1/32 Scanned)	Constant (1/32 Scanned)
	Frame Rate (Hz)	60	60	60	60
	Refresh Frequency (Hz)	≥ 1200Hz	≥ 1200Hz	≥ 1500Hz	≥ 1200Hz
	Grey Scale (Bit)	14 /15/16	14 /15/16	14 /15/16	14 /15/16
	Color Capacity (Trillion)	4.4 /35/281	4.4 /35/281	4.4 /35/281	4.4 /35/281
Operating Environment	Typical Lifetime (h)	100000	100000	100000	100000
	Protection	IP54	IP54	IP54	IP54
	Operating Temperature (°C)	-10 ~ +40	-10 ~ +40	-10 ~ +40	-10 ~ +40
	Storage Temperature (°C)	0 ~ +40	0 ~ +40	0 ~ +40	0 ~ +40
	Operating Humidity (RH)	10% ~ 90% , No Condensing	10% ~ 90% , No Condensing	10% ~ 90% , No Condensing	10% ~ 90% , No Condensing

	Storage Humidity (RH)	10% ~ 90% , No Condensing	10% ~ 90% , No Condensing	10% ~ 90% , No Condensing	10% ~ 90% , No Condensing
Function	Available for Dot-by-Dot Calibration				
	Available for Signal Dual Backup				
	Available for being controlled by Cedar RTM Software				
	Available for different signal format, such as AV,S-Video, VGA,DVI,HDMI,SDI,DP etc.				
	Most of parameters can be customized according to requirements or special environments				

1.1.2 Comparison



COB (chip on board) display



Projection display



COB Display

DLP/LCD Display

1.1.3 Typical Case



TV station background wall

Conference Center

1.1.4 Contact Us

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