

CREATELED®

VBD-V

Flip-chip COB

- Fine Pixel Pitch
- Ultra-High Reliability
- Higher Brightness performance
- Unprecedented Wide Viewing Angle
- Efficient Heat Dissipation and Energy-saving



Ultra-High Reliability

- › Chip-on-board packaging with Ebony technology providing dual protection of the panel.
- › Anti-collision, dust proof and water proof of the module.
- › Non holder design increases the life time.



Stunning Effects

- › Unprecedented wide viewing angle bring exciting visual experience.
- › High brightness and advanced design enable HDR function, adding excellent color performance.



Energy-saving with Efficient Heat Dissipation

- › Non holder design provides energy saving solution compare to traditional SMD products.
- › Wider heat dissipation area leading great performance of heat dissipation.
- › Power supply unit redundancy (Optional) .



Unlimited Vision and Possibilities

- › Fine pixel pitch 0.83, 1.25, 1.66; the 4 :4.5 aspect ratio panel allow native 2k/4k pixel to pixel resolution.



VBD-V / Specifications

	VBD-V 0.8	VBD-V 1.2	VBD-V 1.6
Physical Pitch	0.8mm	1.2 mm	1.6 mm
Pixel Configuration	Flip-chip RGB LED (COB)	Flip-chip RGB LED (COB)	Flip-chip RGB LED (COB)
Pixel Density	1,440,000 pixels/m ² 259,200 pixels/panel	640,000 pixels/m ² 115,200 pixels/panel	360,000 pixels/m ² 64,800 pixels/panel
LED Module Dimensions (mm)	200 × 150	200 × 150	200 × 150
Panel Dimensions (W × H × D) (mm)	400 × 450 × 49	400 × 450 × 49	400 × 450 × 49
No. of Modules Per Panel (W × H)	2 × 3	2 × 3	2 × 3
Physical Resolution of Module (W × H)	240 × 180	160 × 120	120 × 90
Physical Resolution of Panel (W × H)	480 × 540	320 × 360	240 × 270
Weight Per Panel	6.12 kg/panel	6.19 kg/panel	6.08kg/panel
Processing	14 - 16 bit	14 - 16 bit	14 - 16 bit
Colours	281 trillion	281 trillion	281 trillion
Contrast Ratio	20,000 : 1	20,000 : 1	20,000 : 1
Average Power Consumption	132 - 220 w/m ²	132 - 220 w/m ²	132 - 220 w/m ²
Max Power Consumption	440 w/m ²	440 w/m ²	440 w/m ²
Operating Temp/Humidity	-10 - 40 C / 10% - 90%	-10 - 40 C / 10% - 90%	-10 - 40 C / 10% - 90%
Storage Temp/Humidity	-20 - 60 C / 10% - 90%	-20 - 60 C / 10% - 90%	-30 - 60 C / 10% - 90%
Brightness	600-800*nits	800-1000*nits	800-1000*nits
Refresh Rate	3,840 Hz	3,840 Hz	3,840 Hz
Horizontal Viewing Angle	170°	170°	170°
Vertical Viewing Angle	170°	170°	170°
Expected LED Lifetime (Max)	100,000 Hrs	100,000 Hrs	100,000 Hrs
Servicing	Front	Front	Front
IP Rating	IP30	IP30	IP30
Certification	CE*, EMC*, ClassA*, ETL*, RoHS*, CCC*	CE*, EMC*, ClassA*, ETL*, RoHS*, CCC*	CE*, EMC*, ClassA*, ETL*, RoHS*, CCC*

*Notes: The Specifications are for reference; actual values may vary.
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Application Fields

- [➤ Control Room](#)
- [➤ TV Broadcasting](#)
- [➤ Classroom](#)
- [➤ Showroom](#)
- [➤ Shopping mall](#)
- [➤ Station](#)
- [➤ Corporate](#)
- [➤ Stadium](#)