



Leyard VDS Series

Indoor Fine Pixel Pitch LED Display

Leyard® VDS Series entry-level indoor LED displays deliver beautiful, high-resolution visualization with fine pixel pitches and a glossy ruggedized surface treatment. Displays feature Chip on Board (COB) Technology with flip chip LEDs which produce excellent contrast, viewing angles and brightness. Leyard VDS Series displays are fully-encapsulated making them collision, scratch and static resistant as well as waterproof and dustproof.



COB Technology
Enhanced durability and seamless display



4H HardnessScratch-resistant and long-lasting surface



Efficient Consumption
Save energy consumption,
sustainable operation



Easy Maintenance
Full front installation and



Wide Viewing Angle Expansive viewing angles enhance visual clarity



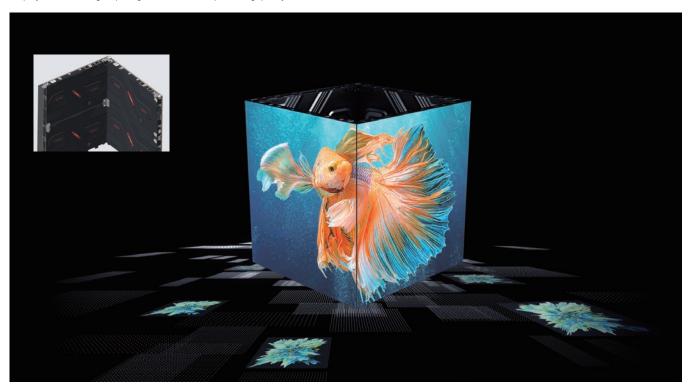
2-Year Warranty Leyard LED Standard Limited Warranty

- 0.9, 1.2 & 1.5mm pixel pitches
- COB technology
- Full front installation and service
- Efficient power consumption
- Low power standby
- Ultra high protection, anti-collision

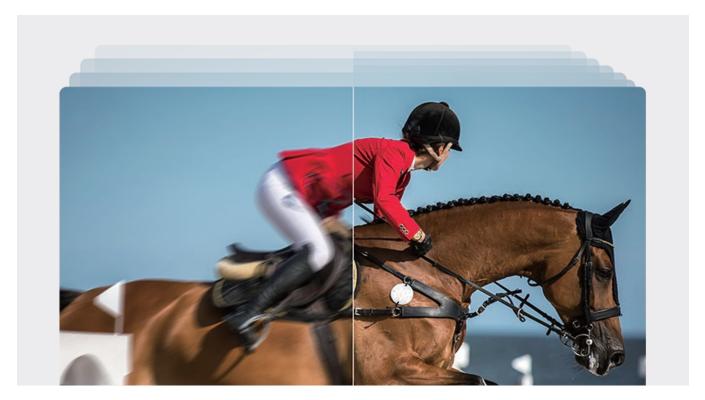


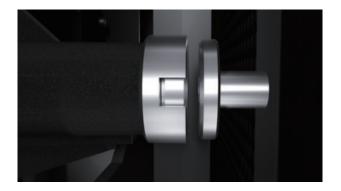
LEYARD VDS SERIES HIGHLIGHT FEATURES

Displays offer 90° angle splicing with a cabinet separation gap only as wide as the LED module.

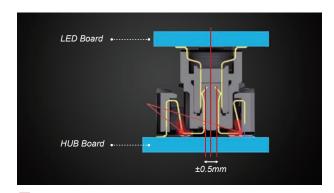


Ultra-high refresh rate and intelligent modules play video smoothly.





Modules' magnetic design delivers excellent flatness and seamless splicing.



Floating Connector - Good SMD position tolerance and shock resistance, reduce the stress on the welding foot when the dislocation is inserted and removed.

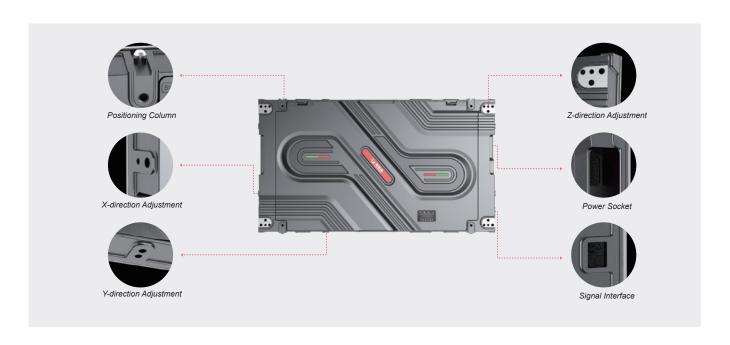


Ultra-high anti-static and anti collision protection.



One-key energy saving, black screen saves 90% at least.

PRODUCT STRUCTURE



Specifications

Full Flip Chip COB	Item	VDS009	VDS012	VDS015
Module Resolution (Wirth) 160×180 120×135 96×108 Module Size (Wirth) 4x2 4x2 4x2 Cabinet Resolution (Wirth) 4x2 4x2 4x2 Cabinet Resolution (Wirth) 640x360 480x270 384x216 Cabinet Rise (Wirth (D)) 600x337.5x43.5mm 23.62*x13.29*x1.71* Unit Area	LED Type	Full Flip Chip COB	Full Flip Chip COB	Full Flip Chip COB
Module Size (Wu+1) 150x168 75mm 5.91% 6.64* Module Composition (Wu+1) 4x2 4x2 4x2 Cabinet Resolution (Wu+1) 640x360 480x270 384x216 Cabinet Size (Wu+1xD) 600x337.5x43.5mm 23.62*x13.29*x1.71* Unit Area Cabinet Weight 0.2025m² 2.188² Cabinet Weight 25kg/m² 55.12b/m² Pixel Density (sixel/m²) 1137777 640000 409600 Surface Flätness (mn) 50.1 50.1 50.1 Brightness Calibration Yes Yes Yes Color Calibration Yes Yes Yes Brightness 600nits (1000nits optional) Color Temperature Actional Weering Angle 170° 170° 170° Vertical Veeling Angle 170° 170° 170° Vertical Veeling Angle 170° 170° 170° Vertical Veeling Angle 170° 170° 170° Deviation of LED Luminance Center <3% <3% 25% Brightness Lumformity 297% 297% 297% <td>Pixel Pitch</td> <td>0.935mm</td> <td>1.25mm</td> <td>1.56mm</td>	Pixel Pitch	0.935mm	1.25mm	1.56mm
Module Composition (Worth) 4x2 4x2 4x2 Cabinet Resolution (Worth) 640x380 480x270 384x216 Cabinet Size (WorthXO) 600x337.5x43.5mm 23.62"x13.29"x1.71" Unit Area 0.2025m² 2.18R² Cabinet Weight 25kg/m² 15.12lb/l² Pixed Density (pixel/m²) 1137777 640000 409600 Surface Flainess (mm) 50.1 50.1 50.1 Brightness Calibration Yes Yes Yes Color Calibration Yes Yes Yes Prightness Calibration Yes Nes Yes Color Temperature 800mits (1000mits optional) Color Temperature Horizontal Viewing Angle 170" 170" 170" Vertical Viewing Angle 170" 170" 170" Vertical Viewing Angle 170" 170" 170" Prightness Uniformity \$97% \$97% \$97% \$97% Chromaticity Uniformity \$2000x \$90x00x \$90x00x \$90x00x \$90x00x Chromaticity U	Module Resolution (WxH)	160x180	120x135	96x108
Cabinet Resolution (Wx+t) 640x360 480x270 384x216 Cabinet Size (Wx+tzD) 600x337,5x43,5mm 23,62°x13,29°x1,71° Unit Area 0.2025m² 2.188² Cabinet Weight 25kg/m² 55,12lb/l² Pixel Density (pixel/m²) 1137777 640000 409600 Surface Flätness (mm) 50.1 40.1 50.1 Brightness Calibration Yes Yes Yes Color Calibration Yes Yes Yes Brightness Calibration Yes Yes Yes Color Temperature 3000–10000K Adjustable Vertical Vering Angle 170° 170° 170° Varical Vering Angle 170° 170° 170° 170° 170° Verical Vering Angle 170° 170° 170° 170° 170° Verical Vering Angle 170° 170° 170° 170° 170° Verical Vering Angle 170° 170° 170° 170° 170° 170° 170° 170° 170° 170° 170° 170	Module Size (WxH)		150x168.75mm 5.91"x6.64"	
Cabinet Size (WxHxD) 600x337.5x43.5mm 23.62*x13.29*x1.71* Unit Area 0.2025m² 2.18ft² Cabinet Weight 25kg/m² 55.12lbft² Pixel Density (pixel/m²) 1137777 640000 409600 Surface Flatness (mm) ≤0.1 ≤0.1 ≤0.1 ≤0.1 Brightness Calibration Yes Yes Yes Color Calibration Yes Ose Yes Brightness 600nits (1000nits optional) Color Temperature Color Temperature 3000~10000K Adjustable Horizontal Vewing Angle 170° 170° 170° Vertical Viewing Angle 170° 170° 170° 170° 170° Vertical Viewing Angle 170° 297% 297% 297%	Module Composition (WxH)	4x2	4x2	4x2
Unit Area 0.2025m² 2.18ft² Cabinet Weight 25kg/m² 55.12ib/t²² Pixel Density (pixel/m²) 1137777 640000 409690 Surface Flatness (mm) ≤0.1 ≤0.1 ≤0.1 ≤0.1 Brightness Calibration Yes Yes Yes Color Calibration Yes O60nits (1000nits optional) Color Temperature Horizontal Viewing Angle 170° 170° 170° Vertical Viewing Angle 170° 170° 170° 170° Vertical Viewing Angle 170° 297% 297% 297% 297%	Cabinet Resolution (WxH)	640x360	480x270	384x216
Cabinet Weight 25kg/m² 55.12lb/ft² Pixel Density (pixel/m²) 1137777 640000 409600 Surface Flatness (mm) s0.1 s0.1 s0.1 Brightness Calibration Yes Yes Yes Color Calibration Yes Yes Yes Brightness 600nits (1000nits optional) Color Temperature 3000-10000K Adjustable Color Temperature 3000-10000K Adjustable Color Temperature 170° 170° 170° Vertical Viewing Angle 170° 170° 170° 170° Vertical Viewing Angle 170° 170° 170° Prival Private Manage 43% <3% <3% Brightness Uniformity ≥97% ≥97% ≥97% Chromaticity Uniformity ±0.003Cx,Cy within 10000-1 10000-1 Max Power Consumption 375W/m² 325W/m² 325W/m² 325W/m² 325W/m² 325W/m² 325W/m² 40000-1 160W/m² 160W/m² 160W/m² 160W/m² 160W/m² 160W/m² 160W/m²	Cabinet Size (WxHxD)	600x337.5x43.5mm 23.62"x13.29"x1.71"		
Pixel Density (pixel/m²) 1137777 640000 409600 Surface Flatness (mm) ≤0.1 ≤0.1 ≤0.1 Brightness Calibration Yes Yes Yes Color Calibration Yes Yes Yes Brightness 600nits (1000nits optional) Color Temperature 3000-10000K Adjustable Horizontal Viewing Angle 170° 170° 170° Vertical Viewing Angle 170° 170° 170° Vertical Viewing Angle 170° 170° 170° Deviation of LED Luminance Center <3%	Unit Area	0.2025m² 2.18ft²		
Surface Flatness (mm) ≤0.1 ≤0.1 ≤0.1 Brightness Calibration Yes Yes Yes Color Calibration Yes Yes Yes Brightness 600nits (1000nits optional) Color Temperature 3000-10000K Adjustable Color Temperature 3000-10000K Adjustable 170° 170° Vertical Viewing Angle 170° 170° 170° Vertical Viewing Angle 170° 170° 170° Deviation of LED Luminance Center <3%	Cabinet Weight	25kg/m² 55.12lb/ft²		
Brightness Calibration Yes Yes Yes Color Calibration Yes Yes Yes Brightness 600nits (1000nits optional) 600nits (1000nits optional) Color Temperature 3000-10000K Adjustable Horizontal Viewing Angle 170° 170° Vertical Viewing Angle 170° 170° Vertical Viewing Angle 170° 170° Peviation of LED Luminance Center <3%	Pixel Density (pixel/m²)	1137777	640000	409600
Color Calibration Yes Yes Yes Brightness 600nits (1000nits optional) 600nits (1000nits optional) Color Temperature 3000~10000K Adjustable Horizontal Viewing Angle 170° 170° 170° Vertical Viewing Angle 170° 170° 170° Deviation of LED Luminance Center <3%	Surface Flatness (mm)	≤0.1	≤0.1	≤0.1
### Brightness 600nits (1000nits optional) Color Temperature 3000−10000K Adjustable Horizontal Viewing Angle 170° 170° 170° Vertical Viewing Angle 170° 170° 170° Deviation of LED Luminance Center <3% <3% <3% ### Brightness Uniformity ≥97% ≥97% ≥97% Chromaticity Uniformity ±0.003Cx,Cy within Contrast Ratio 10000:1 10000:1 10000:1 #### Max Power Consumption 375W/m² 325W/m² 325W/m² Average Power Consumption 175W/m² 160W/m² 160W/m² #### Power Supply AC100−240V (50/60Hz) Drive Mode Common cathode constant current driver ###################################	Brightness Calibration	Yes	Yes	Yes
Color Temperature 3000-10000K Adjustable Horizontal Viewing Angle 170° 297%	Color Calibration	Yes	Yes	Yes
Horizontal Viewing Angle 170° 170° 170° Vertical Viewing Angle 170° 170° 170° Deviation of LED Luminance Center 43% 43% 43% 43% Brightness Uniformity ≥97% ≥97% ≥97% ≥97% Chromaticity Uniformity ±0.003Cx,Cy within Contrast Ratio 10000:1 10000:1 10000:1 Max Power Consumption 375W/m² 325W/m² 325W/m² Average Power Consumption 175W/m² 160W/m² 160W/m² Power Supply AC100-240V (50/60Hz) Drive Mode Common cathode constant current driver Frame Rate 50&60Hz 50&60Hz 3840Hz Refresh Rate 3840Hz 3840Hz 3840Hz Lifetime (hrs) 100,000 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~90%RH no condensation Waranty 2 years	Brightness	600nits (1000nits optional)		
Vertical Viewing Angle 170° 170° 170° Deviation of LED Luminance Center <3%	Color Temperature	3000~10000K Adjustable		
Deviation of LED Luminance Center <3%	Horizontal Viewing Angle	170°	170°	170°
Brightness Uniformity ≥97% ≥97% ≥97% Chromaticity Uniformity ±0.003Cx,Cy within Contrast Ratio 10000:1 10000:1 10000:1 Max Power Consumption 375W/m² 325W/m² 325W/m² Average Power Consumption 175W/m² 160W/m² 160W/m² Power Supply AC100~240V (50/60Hz) Common cathode constant current driver Frame Rate 50&60Hz 50&60Hz 50&60Hz Refresh Rate 3840Hz 3840Hz 3840Hz Lifetime (hrs) 100,000 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Vertical Viewing Angle	170°	170°	170°
Chromaticity Uniformity ±0.003Cx,Cy within Contrast Ratio 10000:1 10000:1 10000:1 Max Power Consumption 375W/m² 325W/m² 325W/m² Average Power Consumption 175W/m² 160W/m² 160W/m² Power Supply AC100~240V (50/60Hz) Drive Mode Common cathode constant current driver Frame Rate 50&60Hz 50&60Hz 50&60Hz Refresh Rate 3840Hz 3840Hz 3840Hz Lifetime (hrs) 100,000 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Deviation of LED Luminance Center	<3%	<3%	<3%
Contrast Ratio 10000:1 10000:1 10000:1 Max Power Consumption 375W/m² 325W/m² 325W/m² Average Power Consumption 175W/m² 160W/m² 160W/m² Power Supply AC100~240V (50/60Hz) Drive Mode Common cathode constant current driver Frame Rate 50&60Hz 50&60Hz Refresh Rate 3840Hz 3840Hz 3840Hz Lifetime (hrs) 100,000 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~95%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Brightness Uniformity	≥97%	≥97%	≥97%
Max Power Consumption 375W/m² 325W/m² 325W/m² Average Power Consumption 175W/m² 160W/m² 160W/m² Power Supply AC100~240V (50/60Hz) Drive Mode Common cathode constant current driver Frame Rate 50&60Hz 50&60Hz Refresh Rate 3840Hz 3840Hz Lifetime (hrs) 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Chromaticity Uniformity		±0.003Cx,Cy within	
Average Power Consumption 175W/m² 160W/m² 160W/m² Power Supply AC100~240V (50/60Hz) Drive Mode Common cathode constant current driver Frame Rate 50&60Hz 50&60Hz Refresh Rate 3840Hz 3840Hz Lifetime (hrs) 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Contrast Ratio	10000:1	10000:1	10000:1
Power Supply AC100~240V (50/60Hz) Drive Mode Common cathode constant current driver Frame Rate 50&60Hz 50&60Hz Refresh Rate 3840Hz 3840Hz 3840Hz Lifetime (hrs) 100,000 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Max Power Consumption	375W/m ²	325W/m ²	325W/m ²
Drive Mode Common cathode constant current driver Frame Rate 50&60Hz 50&60Hz Refresh Rate 3840Hz 3840Hz 3840Hz Lifetime (hrs) 100,000 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~95%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Average Power Consumption	175W/m ²	160W/m ²	160W/m ²
Frame Rate 50&60Hz 50&60Hz 50&60Hz Refresh Rate 3840Hz 3840Hz 3840Hz Lifetime (hrs) 100,000 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F -20~60°C -4~140°F Storage Temperature 10~90%RH no condensation -20~60°C -4~140°F Storage Humidity 10~95%RH no condensation Warranty 2 years	Power Supply	AC100~240V (50/60Hz)		
Refresh Rate 3840Hz 3840Hz 3840Hz Lifetime (hrs) 100,000 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Drive Mode	Common cathode constant current driver		
Lifetime (hrs) 100,000 100,000 100,000 IP Level IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Frame Rate	50&60Hz	50&60Hz	50&60Hz
IP Level IP54 / 4H IP54 / 4H IP54 / 4H IP54 / 4H Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Refresh Rate	3840Hz	3840Hz	3840Hz
Operation Temperature -10~40°C 14~104°F Storage Temperature -20~60°C -4~140°F Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Lifetime (hrs)	100,000	100,000	100,000
Storage Temperature -20~60°C -4~140°F Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	IP Level	IP54 / 4H	IP54 / 4H	IP54 / 4H
Operation Humidity 10~90%RH no condensation Storage Humidity 10~95%RH no condensation Warranty 2 years	Operation Temperature	-10~40°C 14~104°F		
Storage Humidity 10~95%RH no condensation Warranty 2 years	Storage Temperature	-20~60°C -4~140°F		
Warranty 2 years	Operation Humidity	10~90%RH no condensation		
	Storage Humidity	10~95%RH no condensation		
Certification FCC, CB, cTUVus, CE, IC, ROHS, WEEE, REACH	Warranty		2 years	
	Certification	FCC, CB, cTUVus, CE, IC, ROHS, WEEE, REACH		