LEYARD EUROPE

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Leyard Europe VDS Series

INDOOR MICROLED COB LED DISPLAY

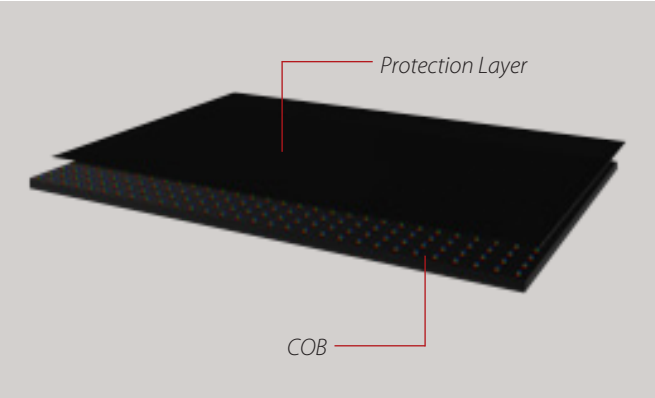
- *0.7, 0.9, 1.2, 1.5 & 1.8 mm pixel pitch*
- *Latest COB MicroLED technology*
- *More robust – 4H hardness*
- *Full front installation and service*
- *Efficient power consumption*
- *Low power standby*
- *5G signal architecture*

Quick installation | Integration | High refresh | High contrast ratio | Wide viewing angle (170°) | Ultra Slim

Leyard Europe's Breakthrough Generation of LED Displays

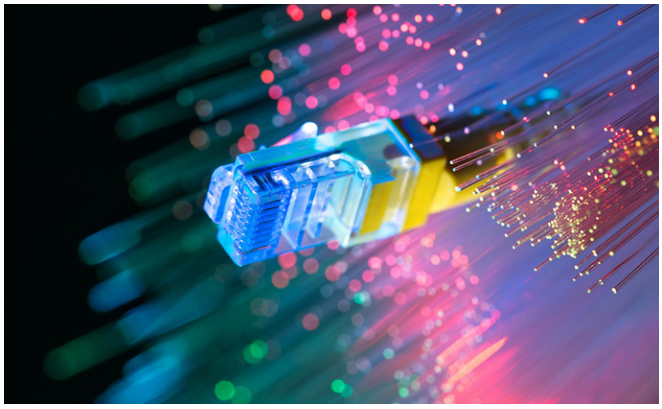
The Leyard VDS Series is Leyard Europe's latest LED technology using MicroLED Chip-on-Board (COB) technology. COB LED technology is becoming increasingly popular and Leyard Europe has developed the VDS Series to provide a state-of-the-art visualization solution. Using this technology allows the display to achieve extremely large viewing angles and high contrast ratios. All this while maintaining a very high power efficiency ratio. In addition, it comes packed with the latest 5G technology for easy installation and cabling.

The VDS Series offers 0.7, 0.9, 1.2, 1.5, and 1.8mm pixel pitch models, all of which are fully installable and serviceable from the front. With a 27" 16:9 cabinet, the VDS Series is perfect for Full HD, 4K and 8K setups. Combined with its protective layer, it is ideal for those public spaces such as airports, train stations, museums and lobbies



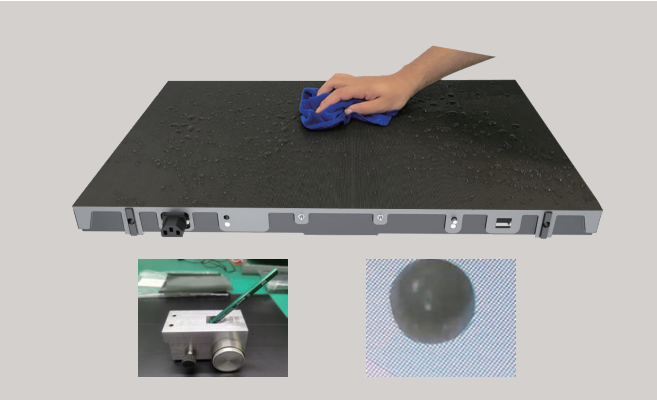
Latest MicroLED COB LED Technology

By using the latest COB flip-chip MicroLED technology, the VDS series from Leyard offers a coated surface which, on the one hand, makes the image appear more homogeneous compared to traditional SMD LED displays and, on the other hand, automatically provides a protective surface against external influences.



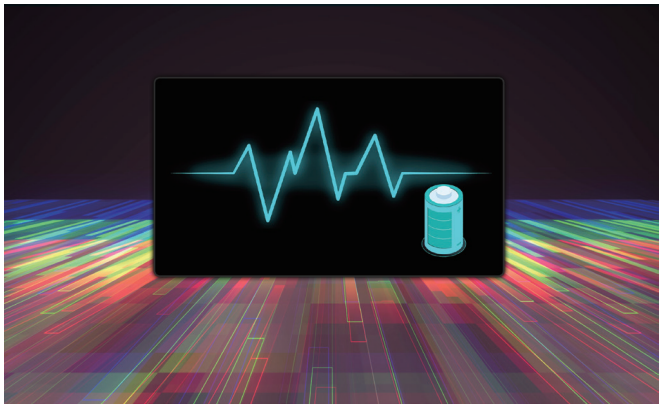
High Bandwidth at 5G Architecture

Leyard's VDS series LED displays offer 5G architecture with optional signal redundancy, which means 5x the bandwidth of competitive solutions, reducing total cost of ownership with fewer cabinets, cables and internal components like receivers and power supplies.



Resistant Surface with Excellent Mechanical Robustness

As the surface is glued, the screen can be touched without any risk of damaging the LEDs by human static electricity. In addition, the protective surface enables easy cleaning of the wall and protection against external influences. The more than ten times increased hardness compared to SMD LEDs allows the use of the displays even in demanding environments with high public traffic, such as airports, railway stations, museums or public entrance areas.



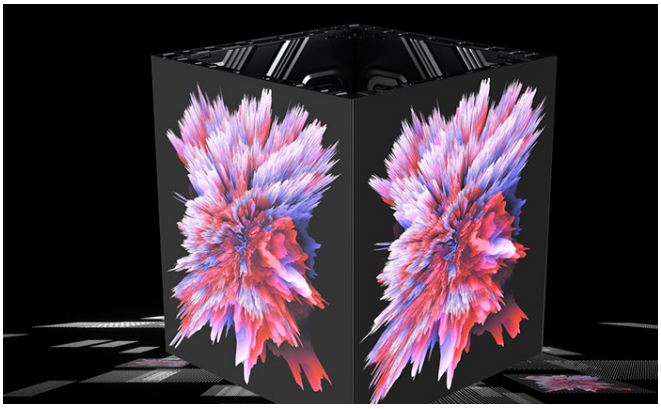
Built-in One-Key Energy Saving

In stand-by mode, the power supply to the modules is completely cut off. By sending a command through the processor, the cabinets can be placed in a low-power standby mode, reducing power consumption to as little as 3W per m^2.

Ultra-High Refresh Rate & Colour Space

Even the fastest video content is displayed razor-sharp and streak-free by the VDS series. The ultra-high refresh rates of 3840Hz at 14bit or 7680Hz at 12bit colour depth allow brilliant images even with highly dynamic moving pictures.

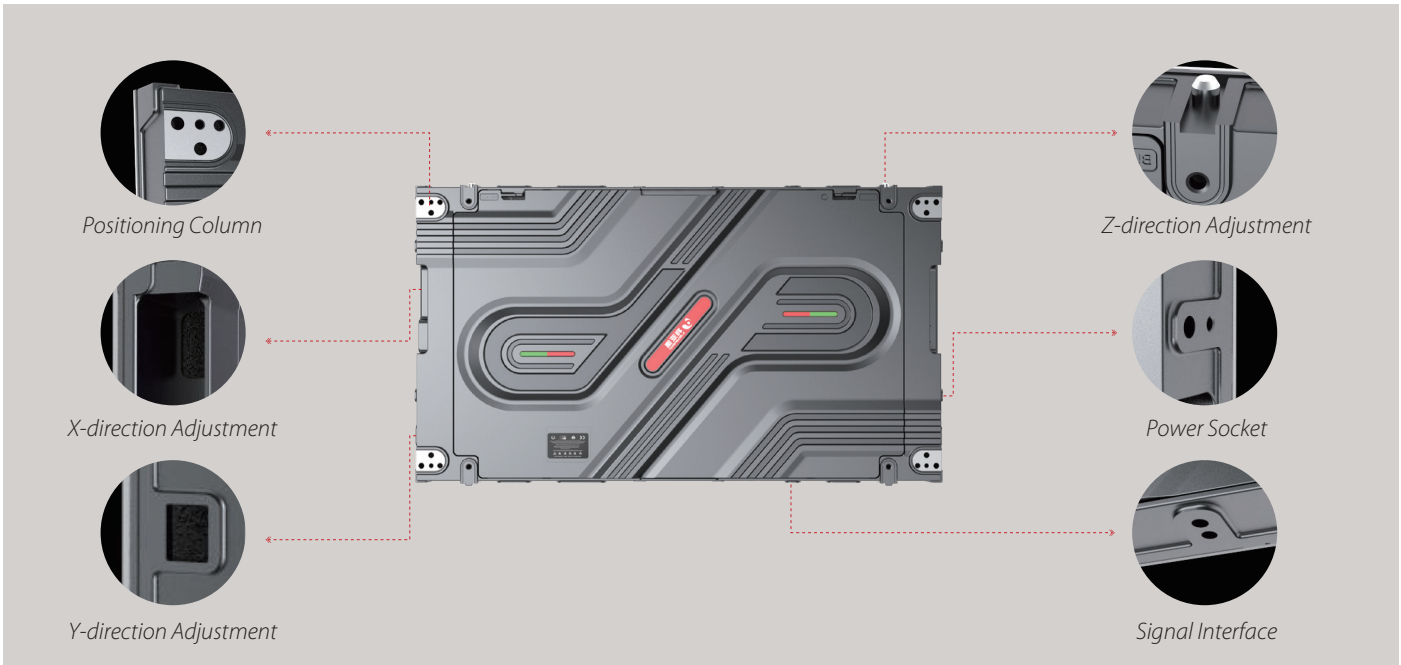
The covered colour space of our VDS series displays corresponds to 96% of DCI-P3. This ultra-wide colour gamut allows the displays to be used in even the most demanding cinematographic areas or television studios.



High Bandwidth at 5G Architecture

Optionally, the VDS Series LED displays can also be installed in 90° corners. This allows you to achieve more eye-catching and creative installations beyond the usual rectangular formats.

This creates a barely visible ridge in the corner, which creates a perfect image impression, e.g. in naked-eye 3D applications.



Advanced Mechanical Design

- Perfect, easy alignment of displays in all axes for a homogeneous, flat appearance of the video wall
- Highly precisely manufactured die-cast aluminium housing
- Internal connectors for power and signal for a wireless setup of the video wall

Specifications

Model	VDS-0.7	VDS-0.9	VDS-1.2	VDS-1.5	VDS-1.8
Pixel Configuration	Flip-Chip MicroLED COB	Flip-Chip MicroLED COB	Flip-Chip MicroLED COB	Flip-Chip MicroLED COB	Flip-Chip MicroLED COB
Pixel Pitch (mm)	0.78	0.935	1.25	1.56	1.875
Module Resolution (W×H)	192×216	160×180	120×135	96×108	80×90
Module Size (mm)(W×H×D)	150×168.75				
Module Composition (W×H)	4×2				
Cabinet Resolution (W×H)	768×432	640×360	480×270	384×216	320×180
Cabinet Size (mm)(W×H×D)	600×337.5×43.5				
Unit Area (m^2)	0.2025				
Cabinet Weight (kg/m^2)	25				
Pixel Density ($pixel/m^2$)	1,638,400	1,137,777	640,000	409,600	284,444
Surface Flatness (mm)	≤0.1				
Brightness Calibration	Yes				
Colour Calibration	Yes				
Colour Bit Depth	16 Bit (281tn colours)				
Brightness (nits)	600				
Colour Temperature (K)	3000 - 10000, adjustable				
Horizontal Viewing Angle (°)	170				
Vertical Viewing Angle (°)	170				
Deviation of LED Luminance Centre	<3%				
Brightness Uniformity	≥97%				
Chromaticity Uniformity	±0.003Cx,Cy within				
Contrast Ratio	20,000:1				
Max. Power Consumption (W/m^2)	425	375	325	325	300
Avg. Power Consumption (W/m^2)	200	175	160	160	150
Power Supply	AC100~240V (50/60Hz)				
Drive Mode	Common cathode constant current driver				
Frame Rate (Hz)	50 / 60				
Refresh Rate (Hz)	3840				
Lifetime (hrs)	100,000				
Operating Mode	24×7				
IP Level	IP54 / 4H				
Operation Temperature (℃)	-10 - +40				
Storage Temperature (℃)	-20 - +60				
Operation Humidity (RH)	10 - 90% no condensation				
Storage Humidity (RH)	10 - 95% no condensation				
Certificates	CE, CB, TÜV, RoHS, REACH, FCC				

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