



The beauty of nature can be presented on LianTronics displays, but it deserves to be better presented in real life too. Recycle and protect our home.



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Website



Facebook

Fine Pitch LED Video Wall

Going Micro, Going Optimum

To Be Your Trustworthy Display Solution Provider

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LianTronics Profile ▼

Your Trustworthy Display Solution Provider

LianTronics is a leading display solution provider specializing in LED application products from R&D, manufacturing, sales to service. Integrated with comprehensive advantages of two sub-brands--- "LianTronics" and "Esdlumen", LianTronics has developed into a large-scale international company, accumulating 40,000+ projects in various application around the world.



Enterprise Scale

Listed in **2011**
\$88 million registered capital
1000+ employees



High-Tech Enterprise

300+ technical staff
400+ national patents
10 leading technologies



Industry-Leading Quality

80000 sqm manufacturing base
A-Z full-chain production
Military-level quality



Sincere Service

200+ countries & regions network
One-stop full-chain service
24/7 customer service support

Intelligent Manufacturing



Manufacturing Base

80000sqm manufacturing base in Huizhou Daya Bay, Guangdong, with worldwide frontline production capacity.



Production Capacity

Fine-pitch LED display: 5000sqm/month; Comprehensive production capacity: 15000sqm/month; Up to \$300 million annual value of production.



Advanced Product Lines

China's first LED display manufacturer to build up fully automated production lines; Owns complete full-flip-chip-on-board (COB) LEDs production system for scale production.



World-Leading Equipment

Japanese CNC punching machine, Three-dimensional precision machine, USA Universal auto-inserting machine, Japanese Fuji SMT, Smart electronic fuel injection, etc.



Superior Quality

70+ processes & 100+ rigorous tests with higher industry standards to achieve military-grade quality.



Smart Management

Introduces MES & APS intelligent management modes for higher efficiency.

Technical Innovation

State-Level High-Tech Enterprise

4% of annual turnover as R&D investment

400+ national patents

3D prototyping processing center

Municipal Engineering Lab (EMC lab inclusive)

10 Pioneering Leading Technologies

1 Non-shutdown Fine-Pitch LED Display Technology

3 High-Precision Die-casting Cabinet Processing

5 High Color Consistency of LED Billboard Technology

7 Centralized Power Supply Technology

9 Mini LED Display Technology

2 Smart Mask-free Inkjet Technology

4 Energy-Saving Technology

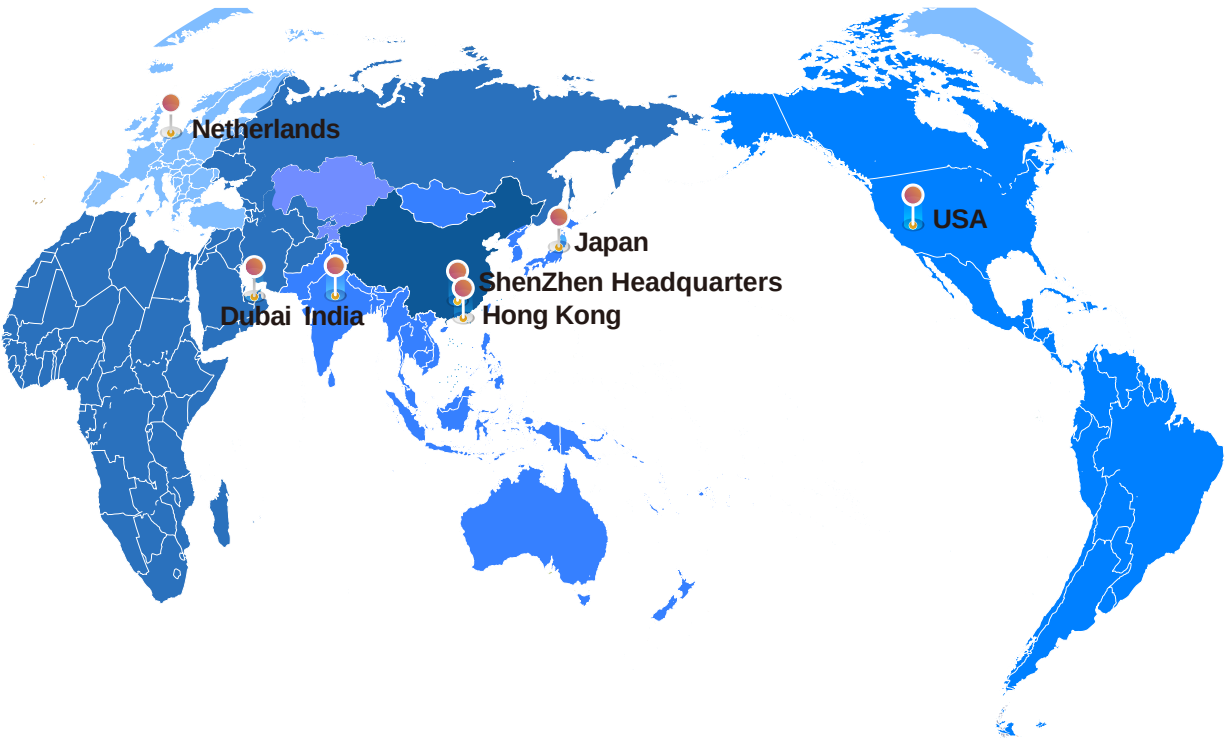
6 "3-to-1" Full Color Technology

8 6-Axis & 3-Dimensional Minitrim Technology

10 "N+X" Power Redundancy Technology

Global Localization Service Network

Multiple international subsidiaries with local offices, showrooms and warehouses. Over 500 sales experts & technical professionals to provide one-stop service from pre-sales, in-sales to after-sales.

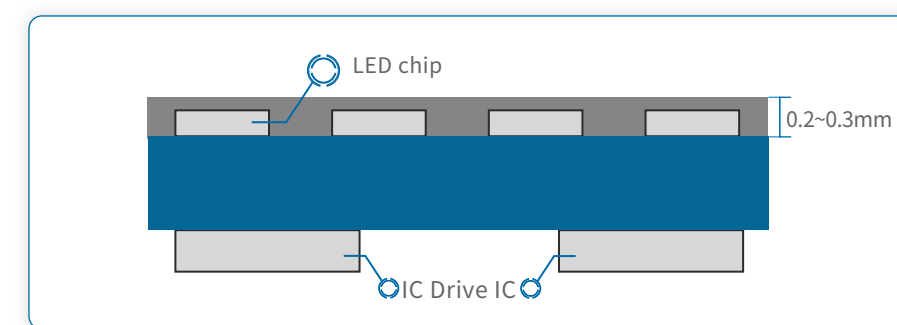


◀◀◀ 10 Core Technologies ▶▶▶



Micro LED Display Technology

- LianTronics began to deploy Mini/Micro LED display since 2017 and launched IMD-based micro pitch products in 2018. In 2021 LianTronics launched a new generation of COB-based micro pitch products, which had solved the regular problems such as ink color & luminance unconformity, splicing seams, light leakage, hard to maintain and so on, while featuring outstanding performance including energy saving, ultra high contrast, Moire pattern free, large viewing angle, etc.



Full flip chip on board

Picture Engine Improvement

- Low grayscale will easily cause problems such as contour lines, color cast, color distortion, etc. With Picture Engine Improvement solution, rich details and hues can be presented even under low brightness & low grayscale. It also support HDR (High Dynamic Range) technology to bring more lifelike natural visual effects.

Picture Engine Improvement

Color Gamut Management

① Color Deviation

② Reddish Skin

Adjust the color gamut of LED screens according to the standard color gamut such as Rec709, Rec2020 & DCI-P3 and customized color gamut to present more accurate and realistic colors.

Fine Grayscale Calibration

① Low Gray Unevenness

② Low Gray Color Cast

To address the issues of low grayscale color cast and low gray bounce caused by inaccurate RGB gray level under low brightness, the R, G, and B gray level are calibrated level-by-level to bring more precise grayscale control.

22bit+ Grayscale Enhancement

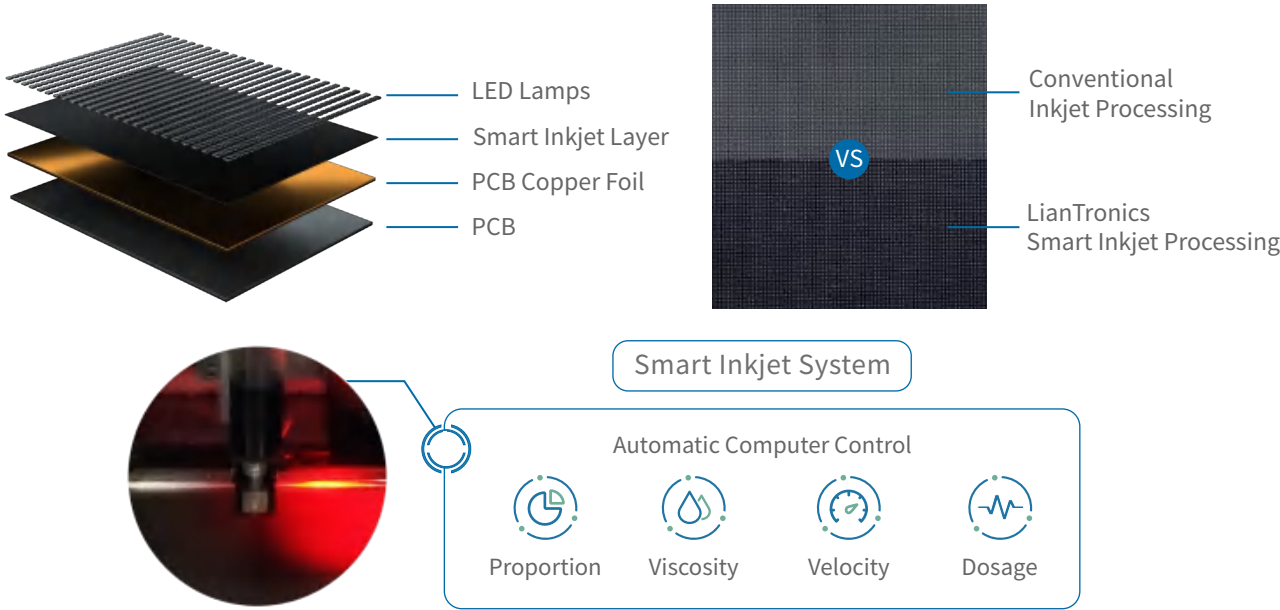
① Low Grey Contour Lines

② Loss of Grayscale

Solve the problems of unsmooth grayscale transition and contour lines in low brightness and low grayscale to deliver more delicate images.

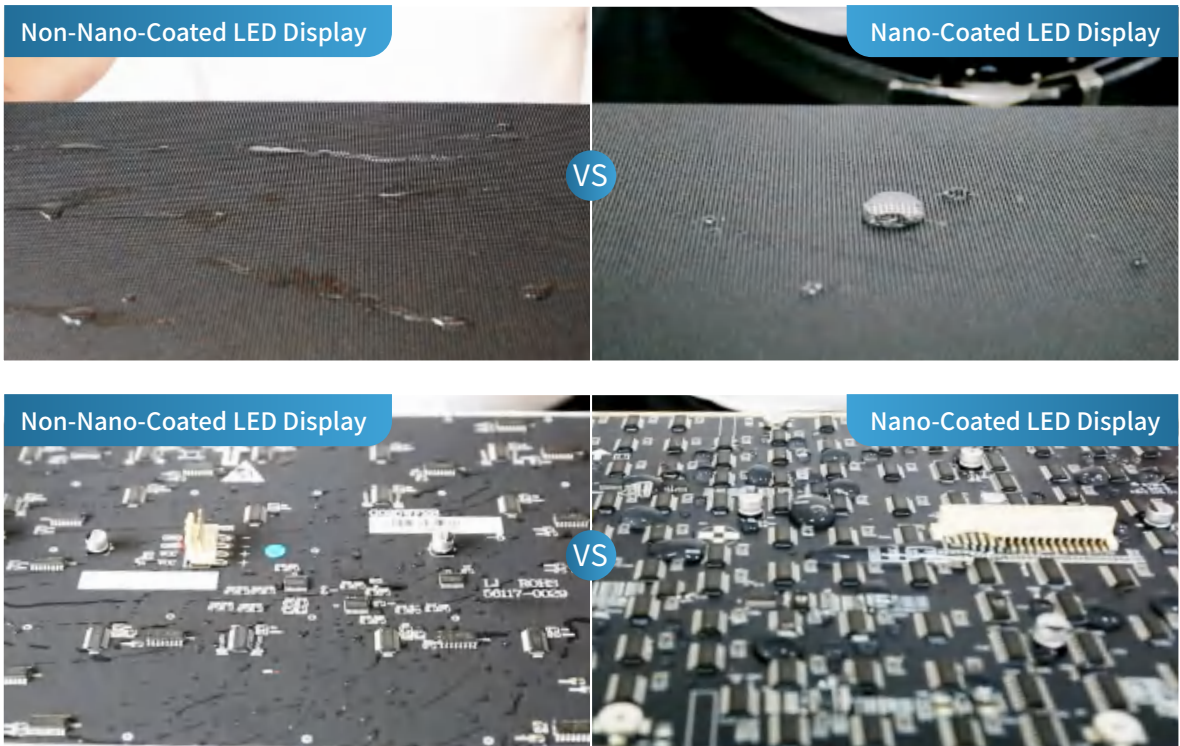
Smart Inkjet Craftsmanship

■ As the first manufacturer to develop mask-free fine-pitch LED display, LianTronics pioneered Smart Inkjet Craftsmanship to effectively solve the problems such as mask protrusion, bulges, dark spots from side views and constrained viewing angles which are commonly seen from traditional masks. Patented Ink Color Control Technology contributes to $\leq 4\%$ chromatic aberration and 96%+ color uniformity, far exceeding the industry standard.



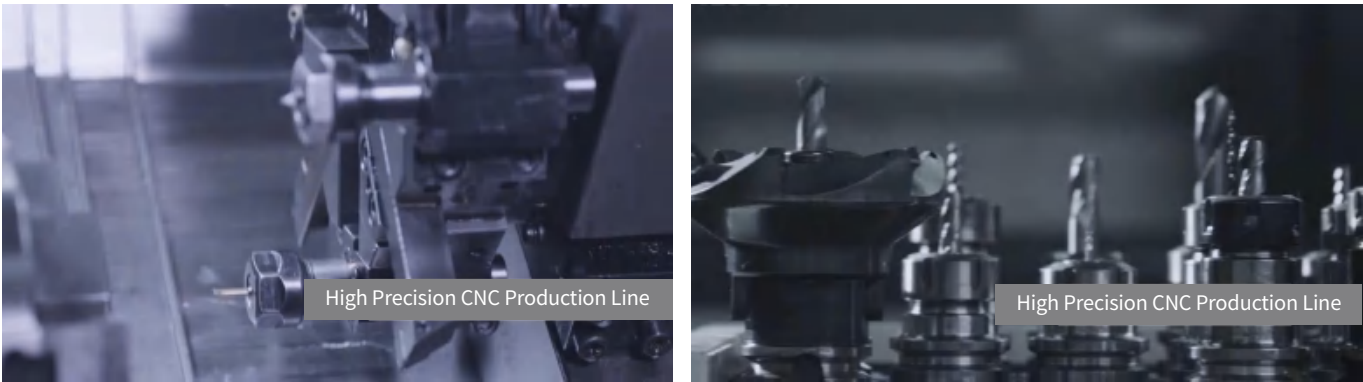
Nano Coating Protection Craftsmanship

■ Under a vacuum plasma environment, the modules are coated with macromolecule nano polymer material all around through special craftsmanship. This dense protective layer well resists water, moisture, dust and prevents the failures of LED “caterpillars” -- abnormal-luminous LED column pixels.



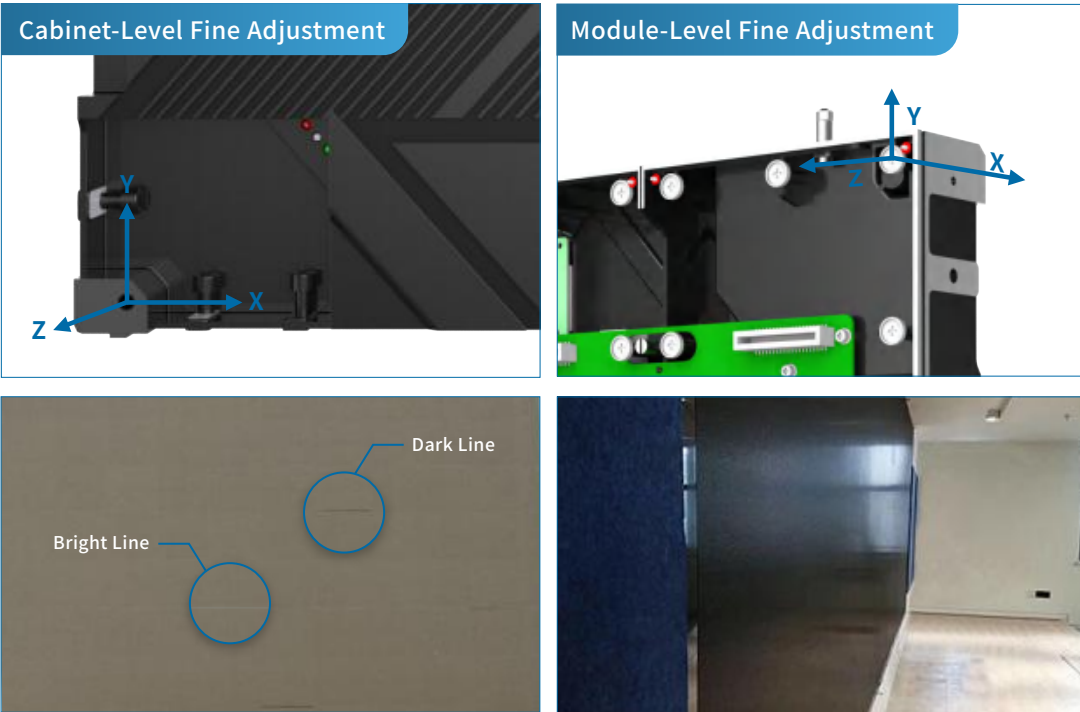
5-Axis & 3-Dimensional Fine Machining

■ With self-built fine machining workshops, LianTronics utilizes military-grade C3 ball screws from Japan with an accuracy of 0.005mm, which is 200% higher than the C7 ball screws commonly adopted in the industry. With Coordinate Measuring Machine (CMM), the die-casting cabinet can be processed multi-dimensionally (X, Z, Y-axis) to greatly improve the precision.



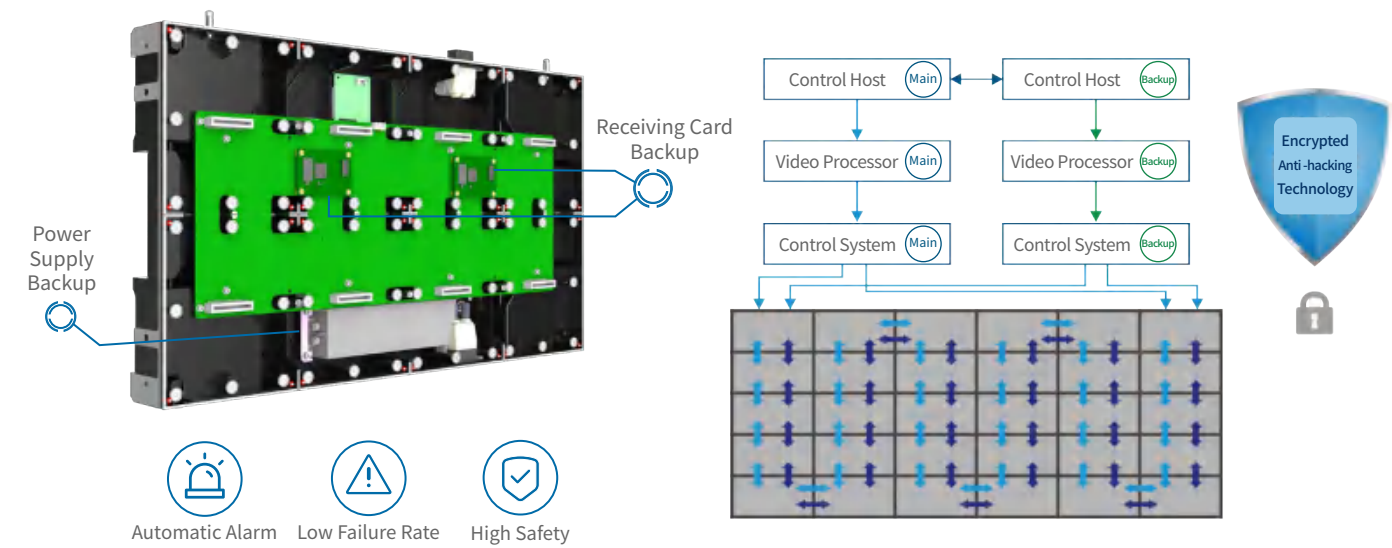
Bright & Dark Lines Removal Technology

■ LianTronics has developed a comprehensive solution to prevent the bright & dark lines of LED screens radically. Every PCB has been further processed through micron-level lamp positioning with precision of $\pm 0.025\text{mm}$, improving the accuracy by 67% compared to the industry standard. By utilizing 5-Axis & 3-Dimensional Fine Machining & one-piece molding craftsmanship, cabinets can be machined with size deviation $< 0.05\text{mm}$. Whats' more, LianTronics pioneering 6-Dimensional Minitrim Technology allows modules and cabinets to be adjusted at sub-millimeter level through in 6 directions, bringing extreme high flatness to free bright and dark lines.



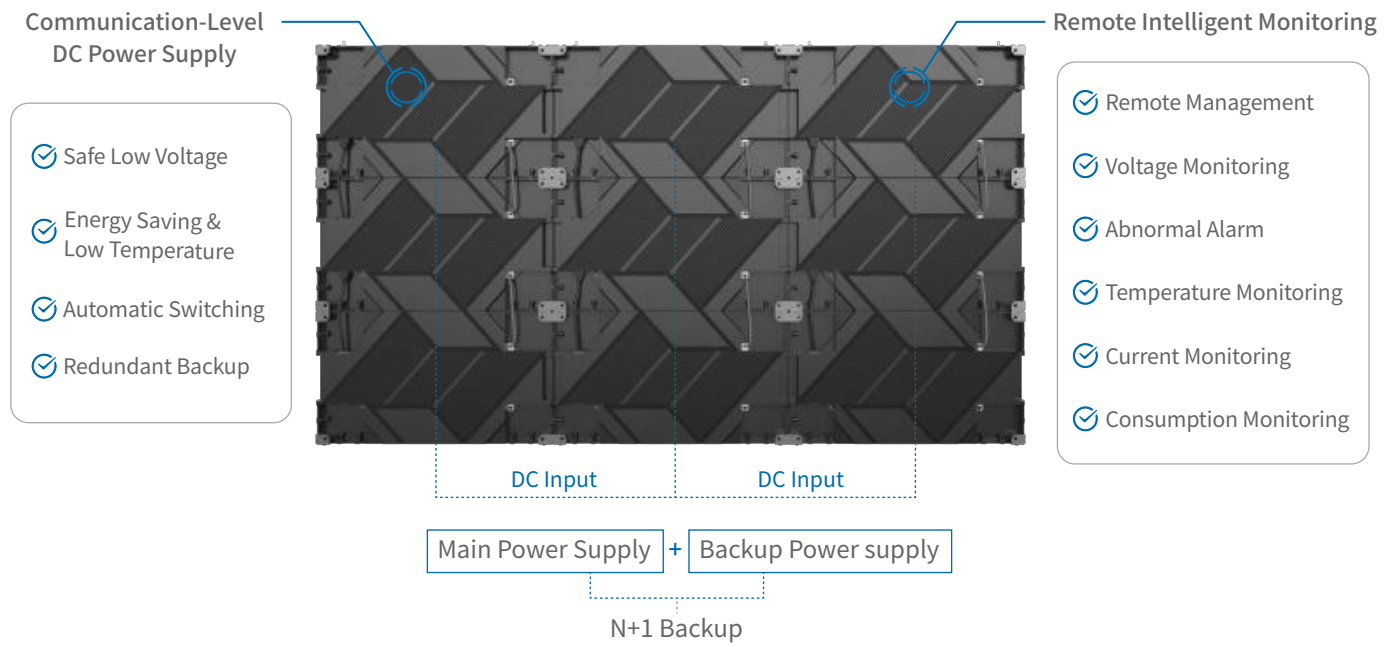
Non-shut-down LED Wall Solution

- Physical double backup for the video source, controller, signal wires, receiving card, and power supply ensures the uninterrupted operation round the clock, avoiding screen stuttering, flickering & sudden shut down, which are crucial to professional scenarios like control rooms, broadcasting studios, etc.



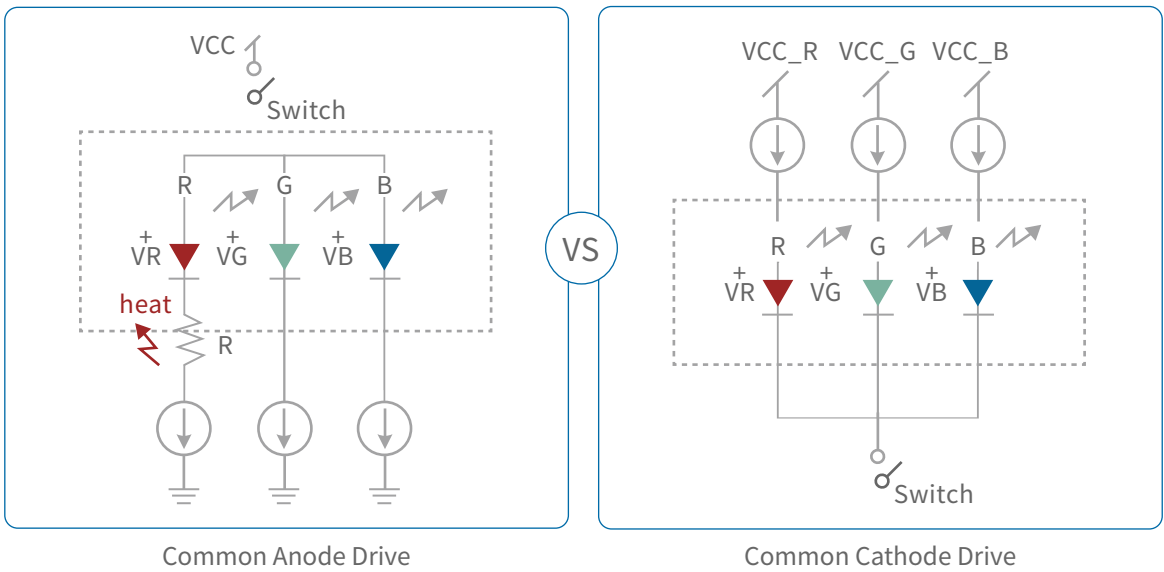
DC-DC Power Supply Technology

- LianTronics has initiated to apply the communication industry's DC power supply technology into LED fine-pitch products, avoiding overheating from high-voltage AC power conversion and bringing higher safety, less noise and lower energy consumption. The AC power coverts into 48V DC outside the cabinet then into 3.9V DC inside the cabinet, rather than coverts from 220V directly into 3.9V DC internal the cabinet.



Curbing Temperature Rise Technology

- Through common cathode drive and product structure optimization, LianTronics LED products feature lower screen surface temperature while touching or standing close, yet saving 15+% energy than regular LED displays. It is intuitively perceived that the LED wall has lower heat balance temperature closely to body temperature, which improves user experience and extends the service life imperceptibly.



User Health Solution

- LianTronics LED products are certified with EMC Class B (Test standards and requirements are higher than Class A) to reduce electromagnetic radiation. Meanwhile, LianTronics products have passed the low blue light certification verified by German TÜV Rheinland, providing effective protection for the health of users and viewers.

Low Blue Light
TÜV-certified low blue light
IEC/EN6247

Comfortable Viewing
Eye comfort mode
Auto-brightness adjustment

Low Radiation
TÜV-EMC
Class B

Noise Free
No fan
Quieter

Low Temperature Rise
Excellent heat dissipation
Energy saving certification



VT Series

LianTronics Next-Generation COB LED Display



A Vision to the Future

- Breaking through limitation of traditional packaging, VT Series has achieved ultra-finer pixel pitch below 1.0mm to produce crystal-clear images free of moire effect and over 10000:1 high contrast ratio for precise vibrant colors.



Traditional Packaging Product



LianTronics VT Series

Unprecedented Broad Views

- Advanced full flip-chip packaging ensures softer luminance and brings 170+° wide views with immaculate image quality in high uniformity from any angle.



Reinforced All-Around Protection

- Low-LED-failure-rate modules feature outstanding anti-collision capacity and waterproof resined surface; One-piece molded back shell conspires to provide high protection all around.



Anti-collision



Anti-static



Moisture-proof



Dust-proof



Anti-oxidation



Low blue light

<P1.0

0.Xmm



Wide View



High Protection



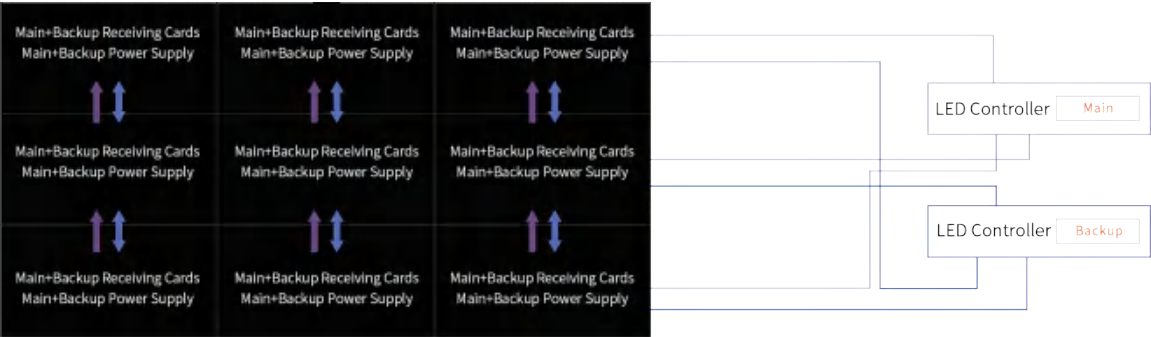
Multiple Backup



Dynamic
Energy Efficiency

Exceptional Stability

- Cabinet-and-module-level wireless connection grants high transmission stability and hassle-free installation; Redundancy of power supply, receiving card, power & network cables further minimize downtime and guarantee long-lasting stable broadcasting.

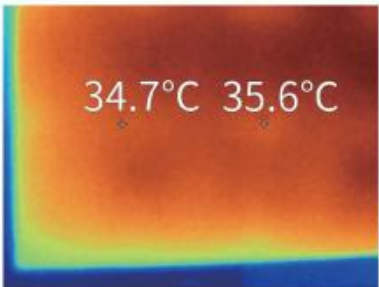


Excellent Heat Dissipation, Excellent User Experience

- Attach-to-shell power supply and optimal circuit board layout bring excellent heat dissipation, lower surface temperature, and more stable operation, improving the user experience significantly.



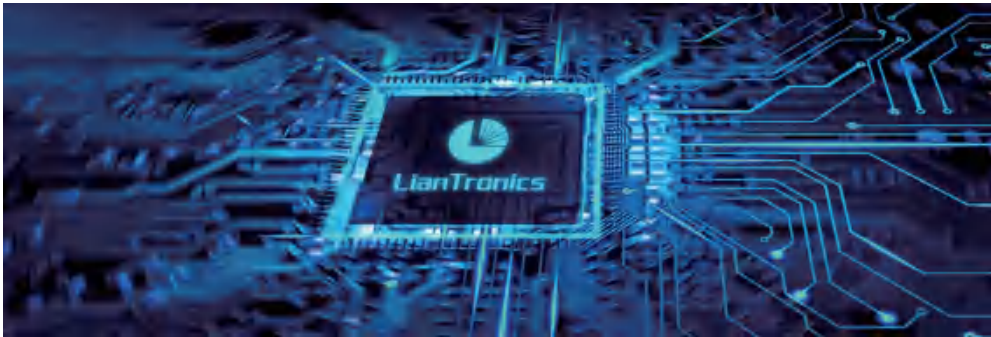
P0.9 COB LED Display of Other Brand



LianTronics VT0.9 COB LED Display

Quadruple Energy-Saving Technology

- Adopted common cathode technology and high-efficiency light-emitting chips reduce power consumption by 40%; Dynamic energy efficiency and smart standby mode further improve energy efficiency.



Model	VT0.7	VT0.9	VT1.2	VT1.5
Pixel Pitch (mm)	0.7	0.9	1.2	1.5
Pixel Density (Pixels/m²)	1638400	1137778	640000	409600
LED Type	Flip Chip on Board			
Panel Size W×H (mm)	600*337.5			
Panel Resolution W×H (Pixels)	768*432	640*360	480*270	384*216
Panel Material	Die-casting Aluminum			
Weight (Kg/pc)	6			
Voltage (V)	AC100~240			
Brightness (nits)	600			
Brightness Adjustment	Auto / Manual / Programmable			
Viewing Angle (H/V)	170° / 170°			
Grayscale (bit)	14			
Refresh Rate (Hz)	3840			
Frame Rate (Hz)	50 / 60			
Contrast Ratio	10000:1			
Color Temperature (K)	2000~10000 (Adjustable)			
Average Power Consumption (W/m²)	118	95	83	83
Maximum Power Consumption (W/m²)	470	380	330	330
Maintenance	Front			
IP Rating	IP60			
LED Lifetime (Hours)	100000			

*Above parameters are for reference only. For more details, please contact our sales team. All rights reserved.

VAII Series

Ultra-High Definition Fine-Pitch LED Display



-  2K/4K/8K Resolution
-  High-Level Protection
-  Safety and Reliability
-  Smart Chip
-  Seamless Display
-  Quick Installation

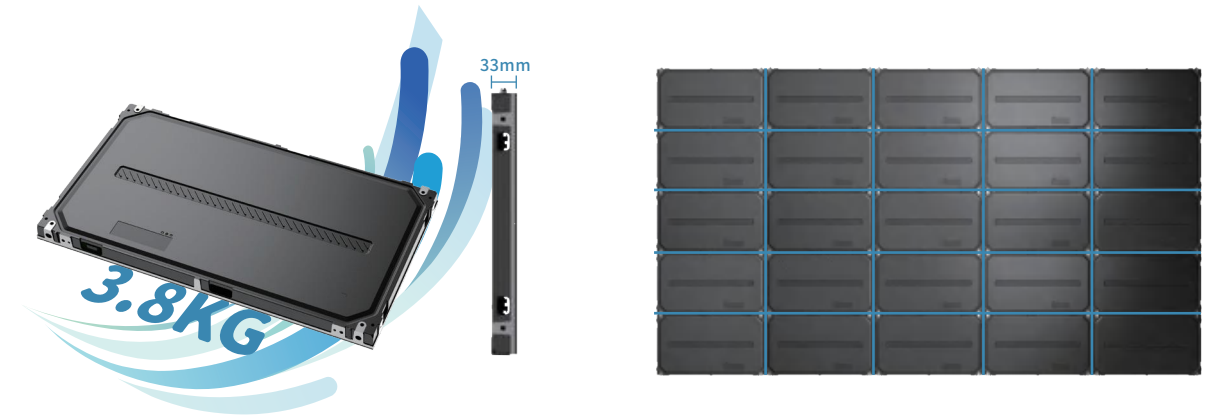
Seamless Display, Stunning Clarity

■ Standard 16:9 cabinet, delivering 2K/4K/8K resolution for an immersive viewing experience.



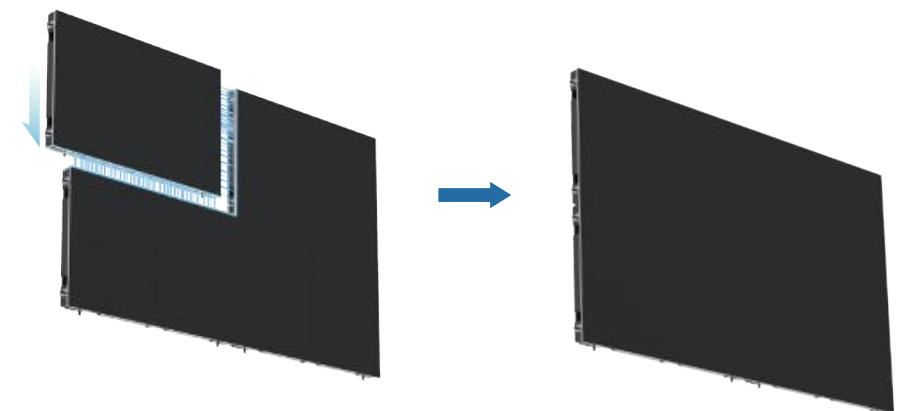
Sleek & Lightweight Design

- Ultra-thin (33mm) & lightweight (3.8kg/Pcs) for a clean and modern look.
- Fully hidden internal wiring enhances aesthetics and safety.



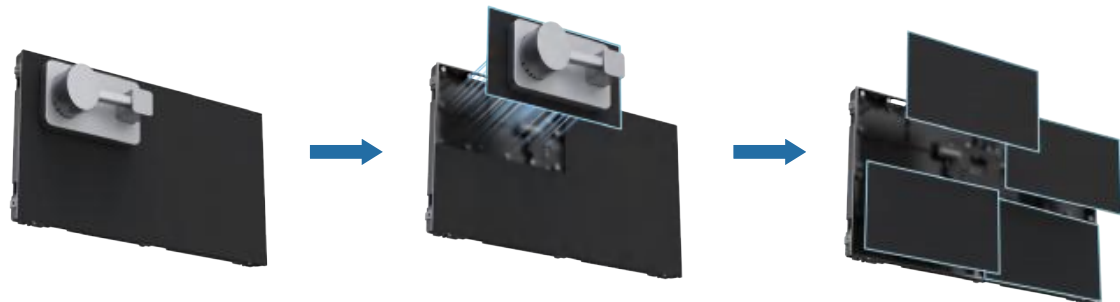
Fine Adjustment, Superior Flatness

■ Die-casting aluminum cabinet, support flatness adjustment of cabinets and modules.



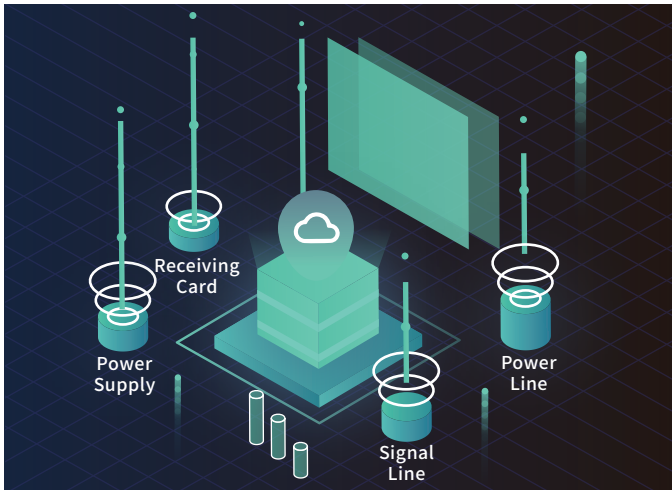
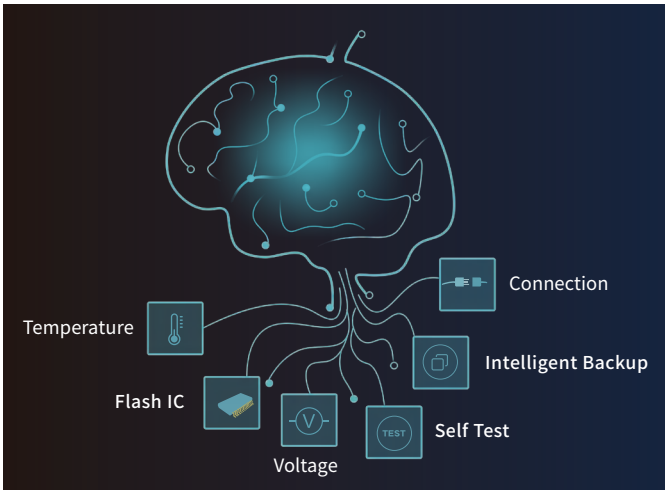
Full Front Maintenance for Maximum Efficiency

- All components front-accessible, simplifying installation and maintenance.
- Hard connections enhance durability and boost installation efficiency by 30%.



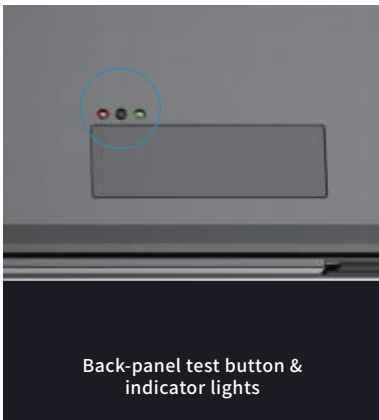
Enhanced Stability

- Multiple backups for power supply, receiving card, signal line and power line to ensure stable operation.
- Intelligent auto-calibration ensures seamless module replacement and consistency.

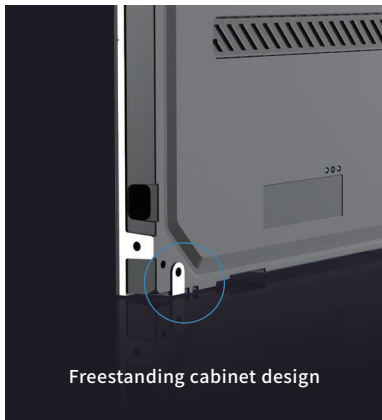


Optimized for Reliability & Ease of Use

- Back-panel test button & indicator lights allow for single-cabinet activation and diagnostics.
- Freestanding cabinet design protects the LED surface from damage.
- Optional wireless connections for faster and more efficient installation.



Back-panel test button & indicator lights



Freestanding cabinet design



Optional wireless connections(optional)

Model	VAII 1.2	VAII 1.5
Pixel Pitch (mm)	1.2	1.5
Physical Density (dot/m ²)	640000	409600
LED Type	SMD	
Panel Size W*H*D (mm)	600*337.5*33	
Panel Resolution W*H (pixel)	480*270	384*216
Panel Material	Die-casting Aluminum	
Weight (Kg/pc)	3.8	
Voltage (V)	AC 100~240	
Brightness (cd/m ²)	600	
Brightness Adjustment	Programmable / Auto / Manual	
Viewing Angle (H/V)	160° / 160°	
Refresh Rate (Hz)	3840	
Frame Rate (Hz)	50 / 60	
Contrast Ratio	8000:1	
Color Temperature (K)	2000~10000 (Adjustable)	
Average Power Consumption (W/m ²)	125	105
Maximum Power Consumption (W/m ²)	500	420
Serviceability	Front	
IP Rating	IP30	
LED Lifetime (Hours)	100000	

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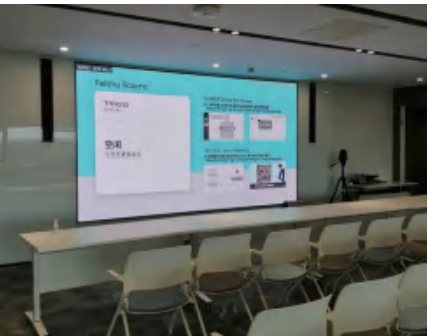
Application case



Broadcasting Studio



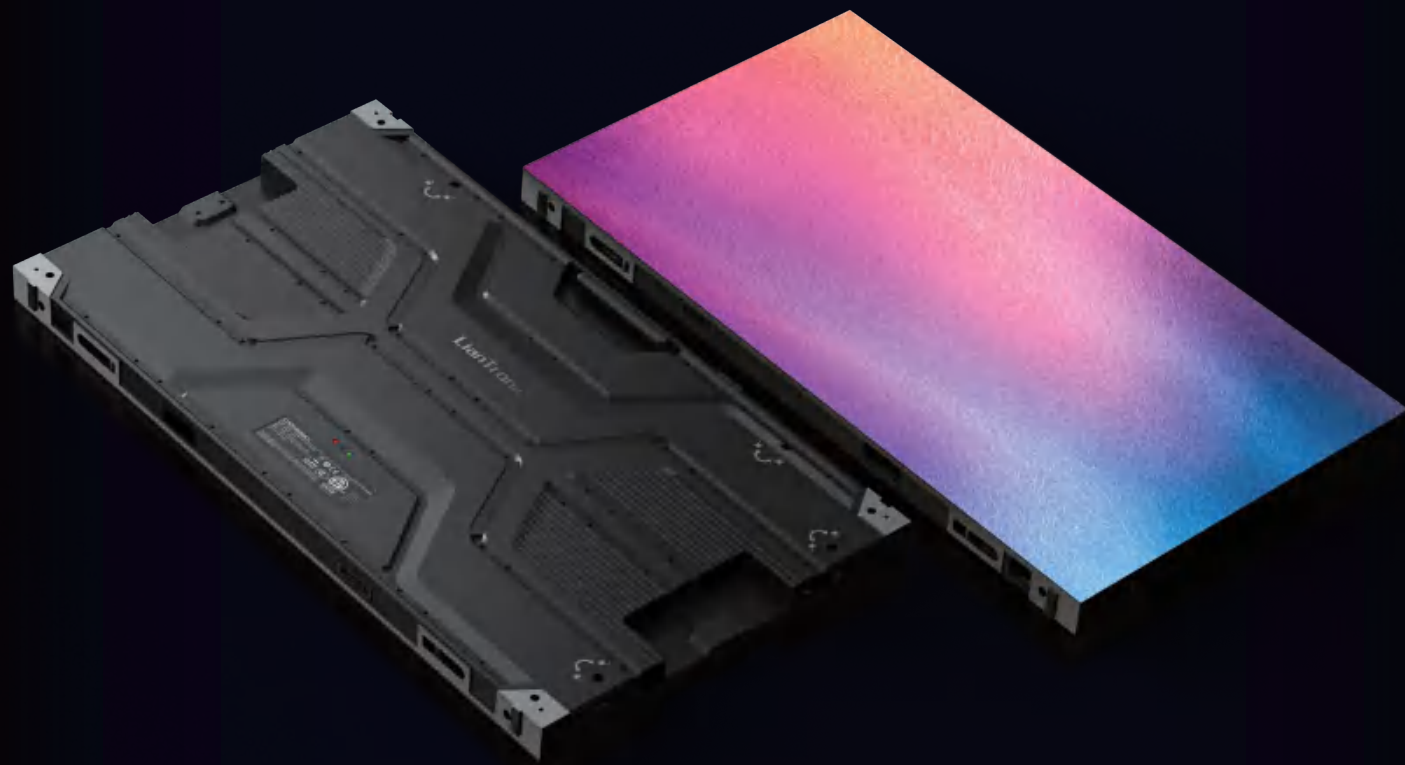
Transportation Hub



Multimedia Room

VAIII Series

Next-Gen MIP-Display Technology



MIP

MIP-Display
Technology

33mm+4.5kg



Extreme-Thin&
Light



Quadruple
Backup



Fast
Interlock



Flexible
Splicing



Considerate
Details

VAIII(MIP) Series

MIP-Display Technology

- MIP Technology, Exceptional Color Consistency, High Contrast, Pixel-Level Serviceability, and Ultra-Fine-Pitch Performance.



Flexible Splicing with High Flatness

- VAIII Series enables horizontal half-cabinet cutting, 45° bevel for seamless L-shaped splicing & curved splicing flexibly. Unique 6-Dimensional Minitrim Technology guarantees high flatness to achieve superior display.

Half-cabinet cutting realizes
more possibility.



45° bevel for seamless L-shaped
splicing supports multiple applications.

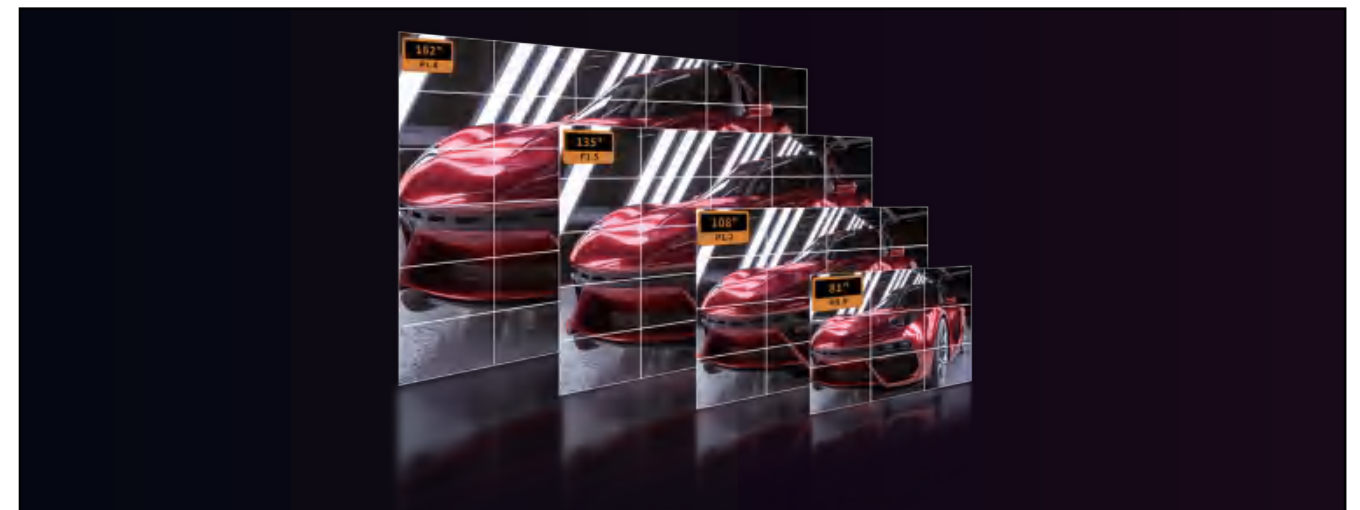


Inter-module adjustment can
guarantee smooth and flat screen.



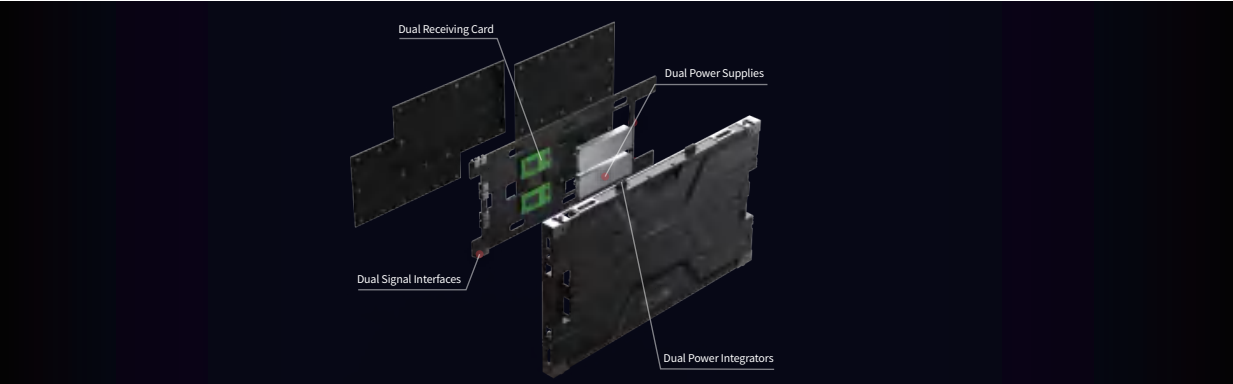
16:9 Golden Ratio, Gorgeous Display

- 6:9 golden ratio brilliantly matches mainstream HD/4K/8K videos while maintaining pixel-to-pixel broadcasting; The 27-inch single cabinet can directly replace LCD display with distortion-free images.



Quadruple Backup, Never Blackout

- VAIII Series allows multiple backup including power, receiving cards, power connectors, & signal connectors. The quadruple backup ensures never a blackout in the normal case.



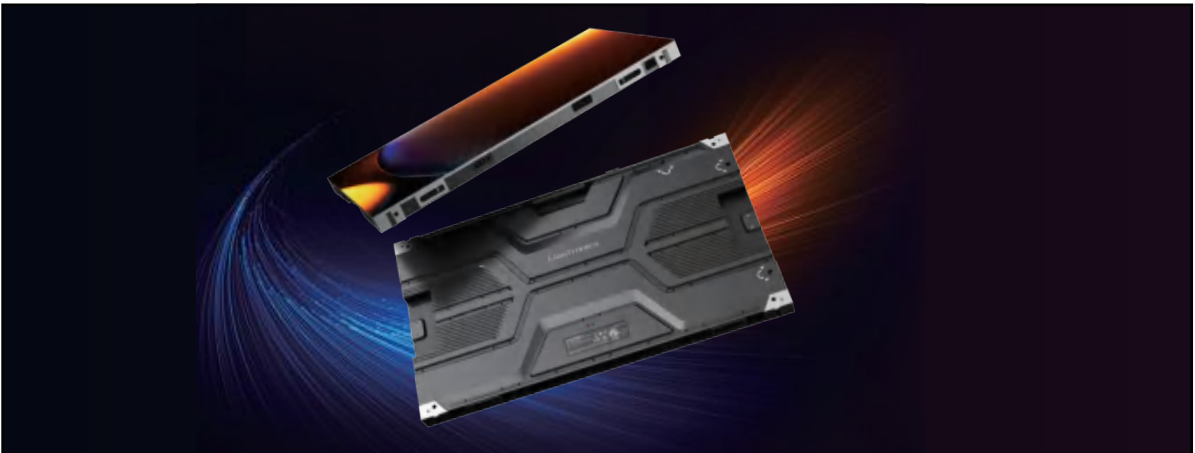
Fast & Easy Installation& Maintenance

- Fast interlock enables 1-second quick installation including wall-mounting, hanging, and stacking. Full front maintenance saves space & time.



Light & Slim Ever

- 33mm-extreme-thin cabinet with 4.5kg/pc lightweight only greatly saves steel structure, transport expenses, and installation costs.



Considerate Details, Reliable Designs

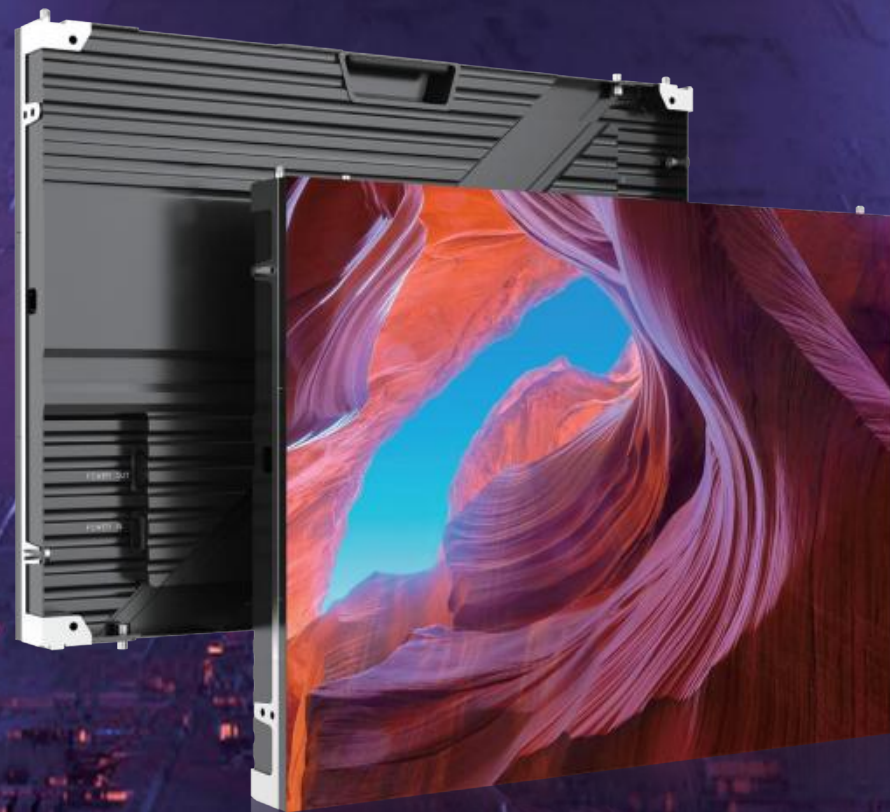


Model	VAIII0.9	VAIII1.2	VAIII1.5	VAIII1.8
Pixel Pitch (mm)	0.9375	1.25	1.5625	1.875
Pixel Density (dot/m ²)	1137778	640000	409600	284444
LED Type	MIP			
Module Size W×H (mm)	600x337.5x33			
Module Resolution W×H (pixel)	160x180	240x135	192x108	160x90
Panel Size W×H×D (mm)	150x168.75	300x168.75		
Panel Resolution W×H (pixel)	640x360	480x270	384x216	320x180
Panel Material	Die-cast aluminum			
Weight (Kg/pc)	4.5			
Brightness (cd/m ²)	1500/3500			1500/3000
Brightness Adjustment	Smart / Manual / Programmable mode			
Viewing Angle (H/V)	170/170			
Frame Rate (Hz)	50/60			
Refresh Rate (Hz)	3840~7680			
Contrast Ratio	10000:1			
Color Temperature (K)	2000~10000			
Voltage (V)	AC 100-240			
Maximum Power Consumption (W/m ²)	400/620	460/720	460/720	460/620
Average Power Consumption (W/m ²)	100/155	115/180	115/180	115/155
Serviceability	Front			
IP Rating	IP30			
LED Lifetime (Hours)	100000			

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VMQ Series

Upgraded 4:3 Fine-Pitch LED Display



Ultra-Thin & Light



High Refresh Rate



Fast Installation



Friendly Maintenance



Multiple Backups



Multiple Protections

◀ VMQ Series

Aesthetics & Practicability into One

- Upgraded thin & light die-cast cabinet saves your space to harmonize with the surroundings; Light beam patterned back shell with “L” alphabetical aesthetics expands the cooling area for excellent heat dissipation.



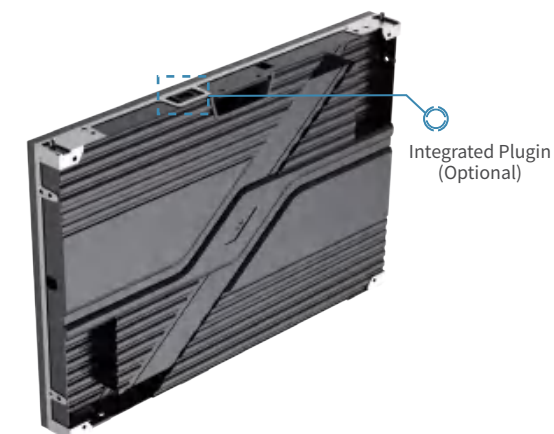
Excellent Visuals As Always

- Patented smart inkjet craftsmanship brings over 8000:1 contrast to present true-to-life images; 3840Hz high refresh rate smoothens broadcasting without flickering.



Simplified Assembly, Fast Installation

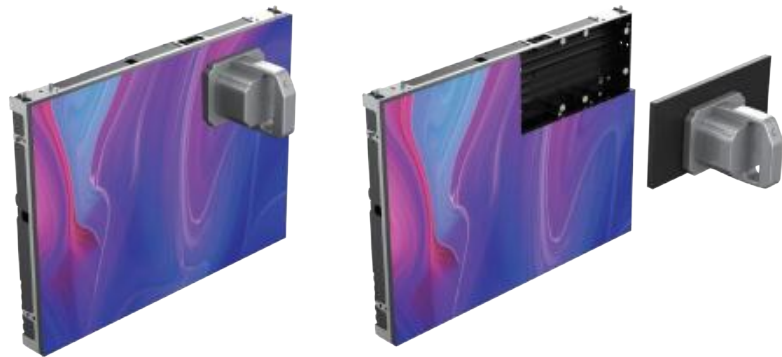
- Optional integrated plugin connection between cabinets speeds up splicing efficiency and stabilizes transmission as well; Installation procedures are simplified for easy and quick setup of the LED screen.



Simplified Front Installation: Removal of 2 Modules Only

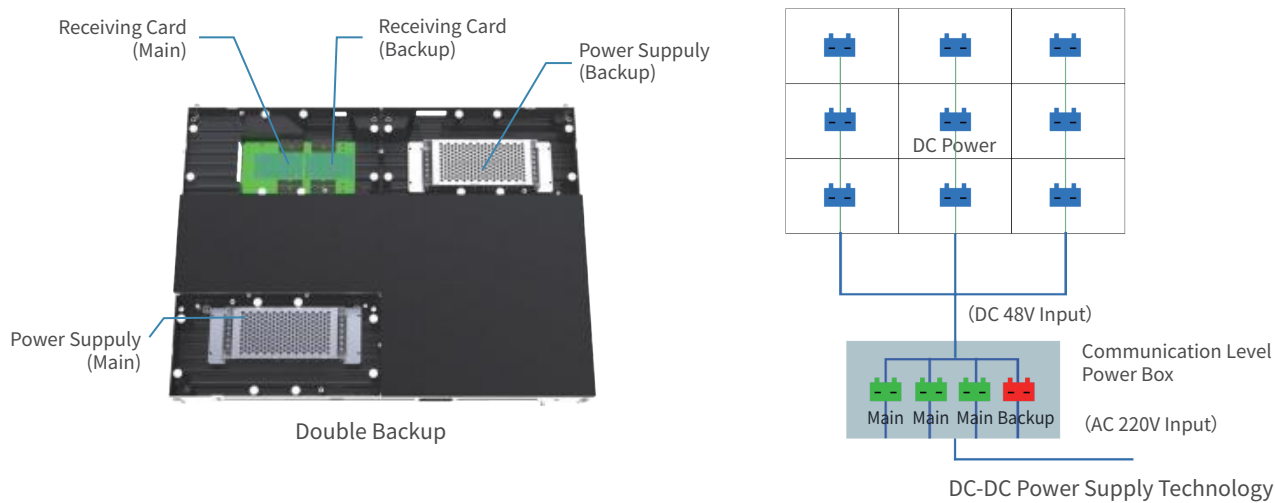
Friendly Full Front Maintenance

■ Modules, receiving card & power supply support full front maintenance for higher spatial utilization.



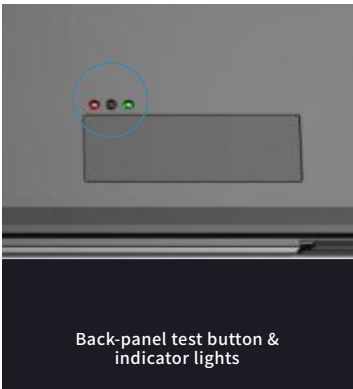
Advanced Technologies, Higher Stability

■ Backups of power supply and receiving card are optional to stabilize long-time transmission; Support DC-DC power supply technology to smoothen operation with high reliability and lower power consumption.

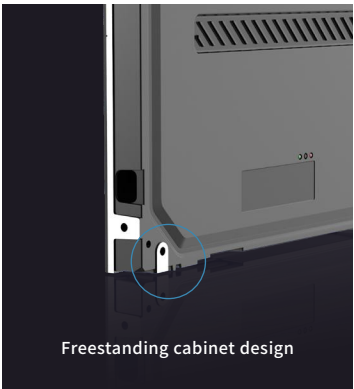


Optimized for Reliability & Ease of Use

- Back-panel test button & indicator lights allow for single-cabinet activation and diagnostics.
- Freestanding cabinet design protects the LED surface from damage.
- Optional wireless connections for faster and more efficient installation.



Back-panel test button & indicator lights



Freestanding cabinet design



Optional wireless connections

SMD					
Model	VMQ1.2	VMQ1.5	VMQ1.8	VMQ2.0	VMQ2.5
Pixel Pitch(mm)	1.25	1.538	1.8	2.0	2.5
Pixel Density(dot/㎡)	640000	422500	288906	250000	160000
LED Type	SMD1010	SMD1212	SMD1515	SMD1515	SMD1515
Panel Size W*H*D(mm)	640*480*64				
Panel Resolution W*H(pixel)	512*384	416*312	344*258	320*240	256*192
Panel Material	Die-casting Aluminum				
Weight(Kg/pc)	7.5				
Brightness(nits)	500			400	
Brightness Adjustment	Auto matic / Manual / Programmable				
Refresh Rate(Hz)	160°/ 140°				
Frame Rate(Hz)	3840				
Contrast Ratio	50/60				
Color Temperature(K)	2000~10000 (Adjustable)				
Voltage(V)	AC 100-240				
Average Power Consumption (W/㎡)	159	150	123	118	106
Maximum Power Consumption (W/㎡)	633	598	492	469	422
Serviceability	Front				
IP Rating	Front IP30/Rear IP60				
LED Lifetime(Hours)	100000				
Gray Scale(bit)	13				

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Application case



Showroom



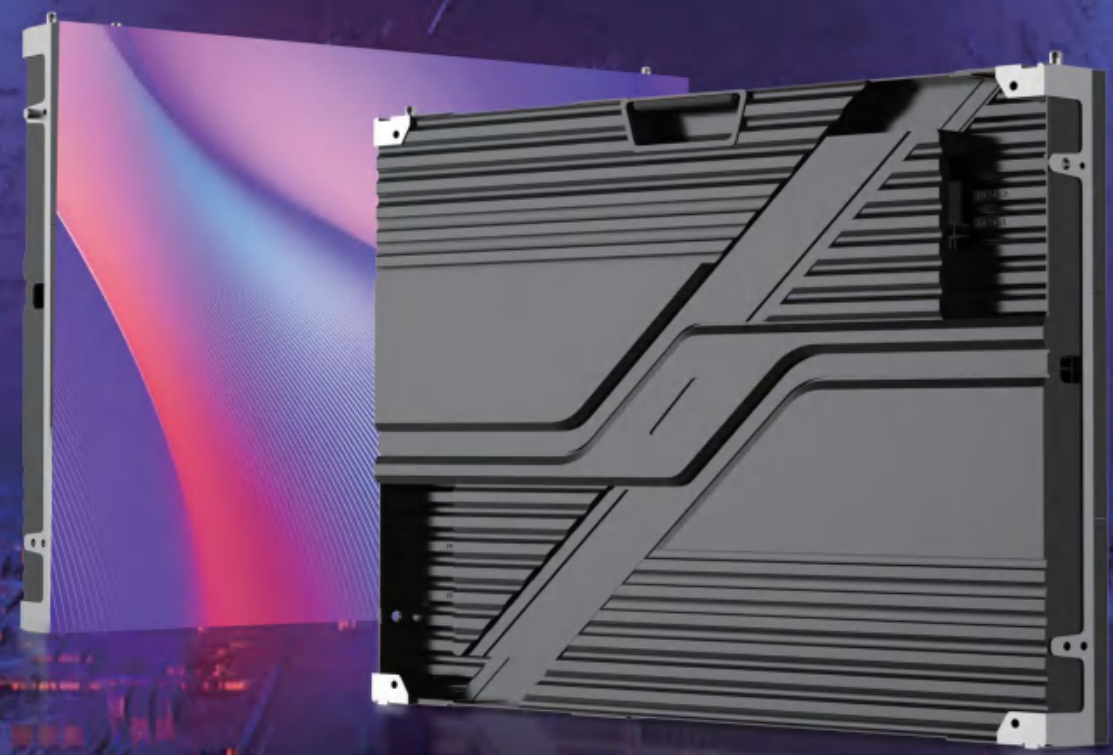
Multifunctional Hall



Meeting Room

VMQ (COB) Series

Upgraded Proven Fine-Pitch LED Display



COB Technology for Ultra-HD Visual Excellence

■ Featuring full flip-chip COB technology with MiniLED chips, it delivers higher contrast, lifelike image quality, and enhanced overall reliability.



Aesthetics & Practicability into One

■ Upgraded thin & light die-cast cabinet saves your space to harmonize with the surroundings; Light beam patterned back shell with “L” alphabetical aesthetics expands the cooling area for excellent heat dissipation.



Excellent Visuals As Always

■ Powered by full flip-chip COB technology and MiniLED chips, it delivers over 10,000:1 contrast ratio, vivid visuals, and a smooth 3840Hz refresh rate with scan-line-free camera capture.



Full Flip COB



Ultra-Thin & Light



High Refresh Rate



Fast Installation



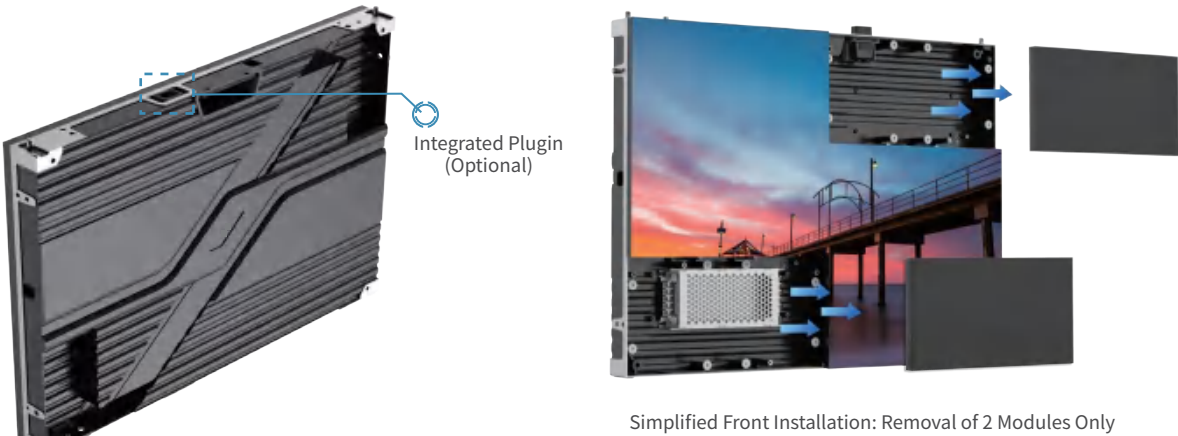
Friendly Maintenance



Multiple Backups

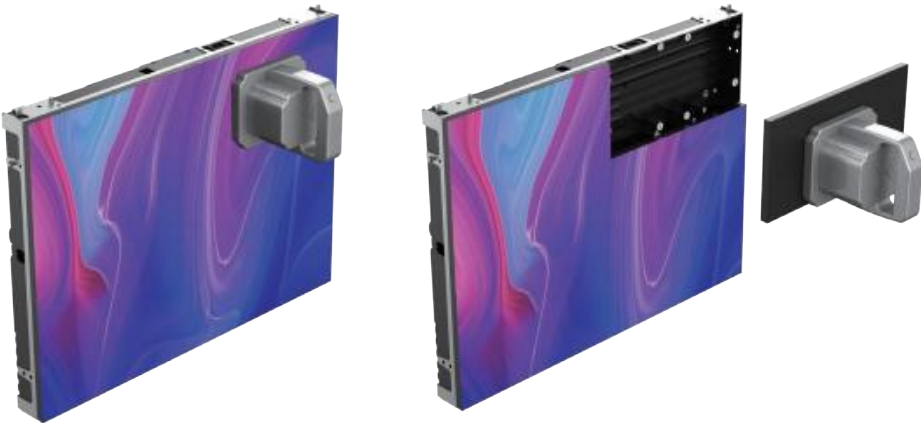
Simplified Assembly, Fast Installation

- Optional integrated plugin connection between cabinets speeds up splicing efficiency and stabilizes transmission as well; Installation procedures are simplified for easy and quick setup of the LED screen.



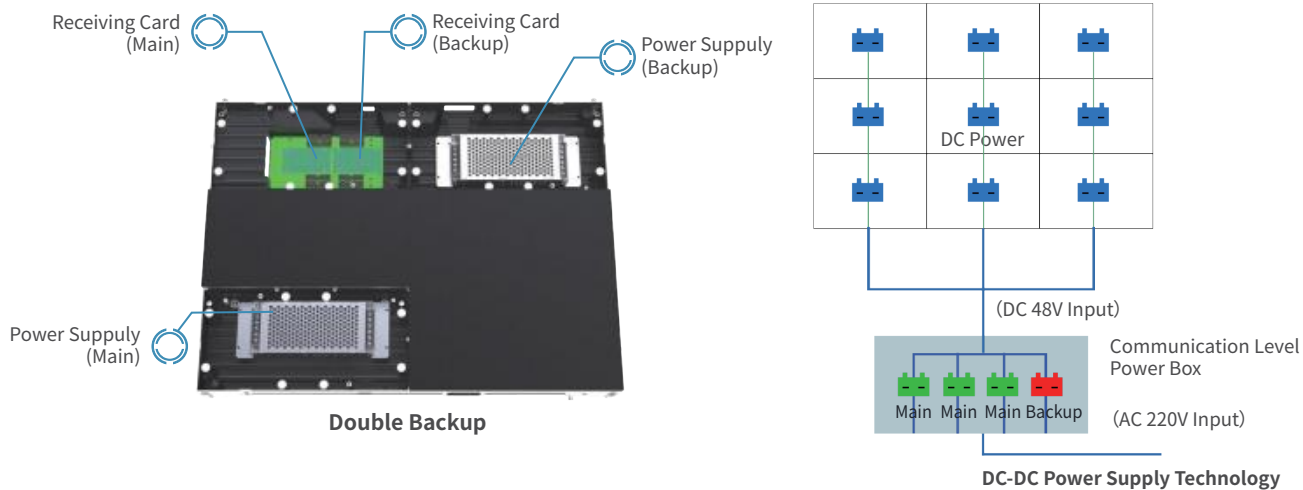
Friendly Full Front Maintenance

- Modules, receiving card & power supply support full front maintenance for higher spatial utilization.



Advanced Technologies, Higher Stability

- Backups of power supply and receiving card are optional to stabilize long-time transmission; Support DC-DC power supply technology to smoothen operation with high reliability and lower power consumption.



Model	VMQ1.2	VMQ1.5	VMQ1.8
Pixel Pitch (mm)	1.25	1.538	1.86
Pixel Density (pixel/m ²)	640000	422500	288906
LED Type	Full Flip COB		
Panel Size W*H*D (mm)	640*480*61		
Panel Resolution W*H (Pixel)	512*384	416*312	344*258
Panel Material	Die-Casting Aluminum		
Weight (Kg/pc)	8		
Brightness (nits)	550±50		
Brightness Adjustment	Programmable/Automatic/Manual		
Viewing Angle (H/V)	160°/160°		
Gray Scale (bit)	13		
Refresh Rate (Hz)	3840		
Frame Rate (Hz)	50/60		
Contrast Ratio	10000:1		
Color Temperature (K)	2000~10000 (Adjustable)		
Operating Voltage	AC 100-240		
Average Power Consumption (W/m ²)	115	100	100
Maximum Power Consumption (W/m ²)	460	400	400
Serviceability	Front		
IP Rating	Front IP30/Rear IP30		
Lifespan (Hours)	100000		

*Above parameters are for reference only. For more details, please contact our sales team. All rights reserved to LianTronics.

Application Reference



Showroom



Multifunctional Hall



Meeting Room

Cases

Broadcasting
Studio

Control
Room

Showroom

Meeting
Room

Retailing

Education
&
Culture

Hospitality
&
Entertainment

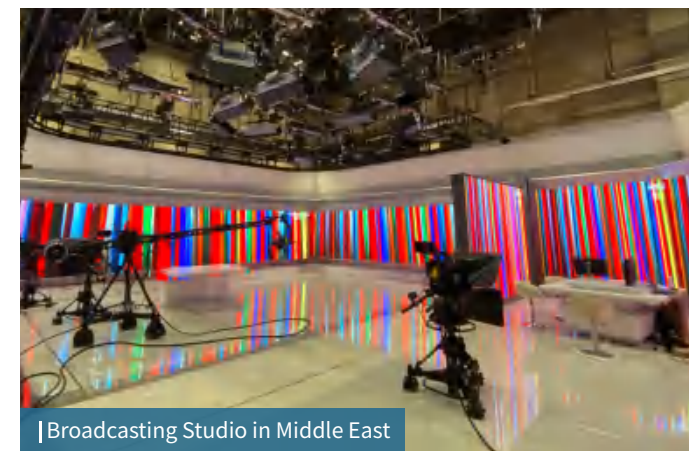
Transportation



| Alaraby TV New Headquarters, Qatar



| Czech Republic Prima Televize



| Broadcasting Studio in Middle East



| Weather Report Studio of NBC , USA



| News Channel Studio of NBC, USA



| Broadcasting Studio in Switzerland



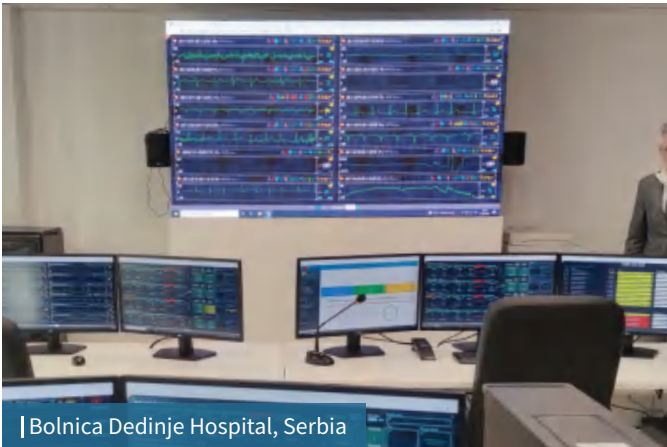
| French National Railway in Paris



| Broadcasting Studio in New York



| Arab World Studio in Washington DC



| Bolnica Dedinje Hospital, Serbia



| Haikou Meilan International Airport



| Wuhan Broadcasting and Television Station



| Suqian TV Station Headquarters



| Jiangxi Cloud Computing Big Data Center



| State Grid, Sichuan



| TOTO Indonesia Headquarters



| Huawei Songshan Lake Headquarters



| Tencent Beijing Headquarters



| Abbott Center, Shanghai



| Hongqi Innovation Tower, Changchun



| SANY Group Changsha Headquarters



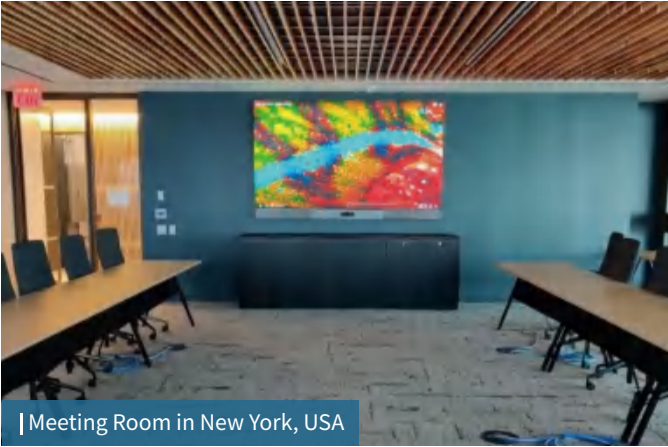
| Sany Marine, Zhuhai



| Shenzhen Hyzen Hospital, China



| Provincial Parliament, the Netherlands



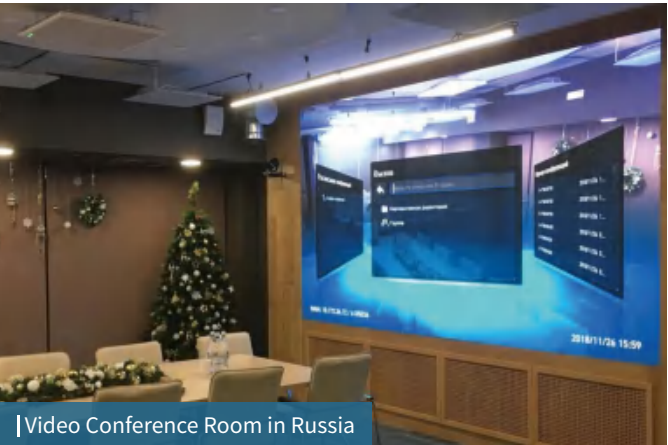
| Meeting Room in New York, USA



| Bolnica Dedinje Hospital, Serbia



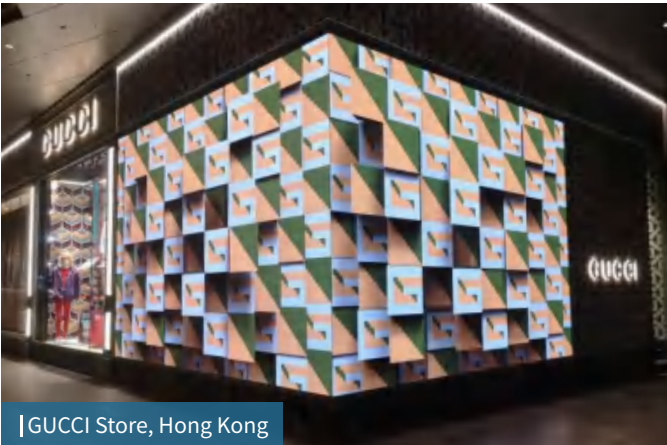
| Estee Lauder Store, Hainan



| Video Conference Room in Russia



| Meeting Room in Denmark



| GUCCI Store, Hong Kong



| Huawei Store, Hangzhou



| Boardroom in Abu Dhabi



| Meeting Room in Rawalpindi, Pakistan



| H&M Store, Germany



| Marijuana Store, USA



| Dark Horse Comic Museum, Nanjing



| Workers' Club, Australia



| City of Dreams, Macau



| The Jockey Club, Hong Kong



| Shangri-La Qiantan, Shanghai



| New York University Shanghai



| Paya Lebar Methodist Church, Singapore



| Shenzhen MSU-BIT University



| Zhongfa Aviation Institute of Beihang University



| Church Mawar Saron, Indonesia



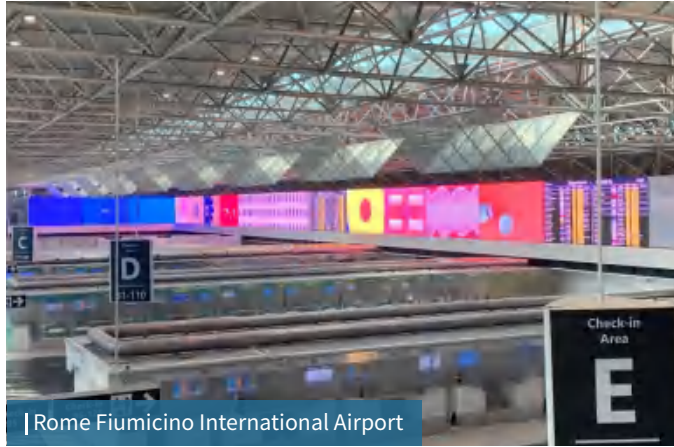
| Beijing Daxing International Airport



| Lujiazui Station of Shanghai Metro Line 14



| Train Station of Paris Airport



| Rome Fiumicino International Airport



| Singapore Changi Airport