



Your Trustworthy Display Solution Provider

SHENZHEN LIANTRONICS CO.,LTD

16/F, Block B4, Building 9, Zone 2, Shenzhen Bay Science and
Technology Ecological Park, Nanshan District, Shenzhen, China



service@liantronics.com



www.liantronics.com



**LIANTRONICS GLASSES-FREE 3D
LED DISPLAY SOLUTION**
New Revolution of Digital Outdoor Advertising

LianTronics Profile ▼

Your Trustworthy Display Solution Provider

LianTronics is a global leader in the development, manufacturing, sales, and after-sales service of video wall systems and professional display solutions. With extensive production experience and strong technical force, LianTronics has successfully completed over 40,000 projects in various applications 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.



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

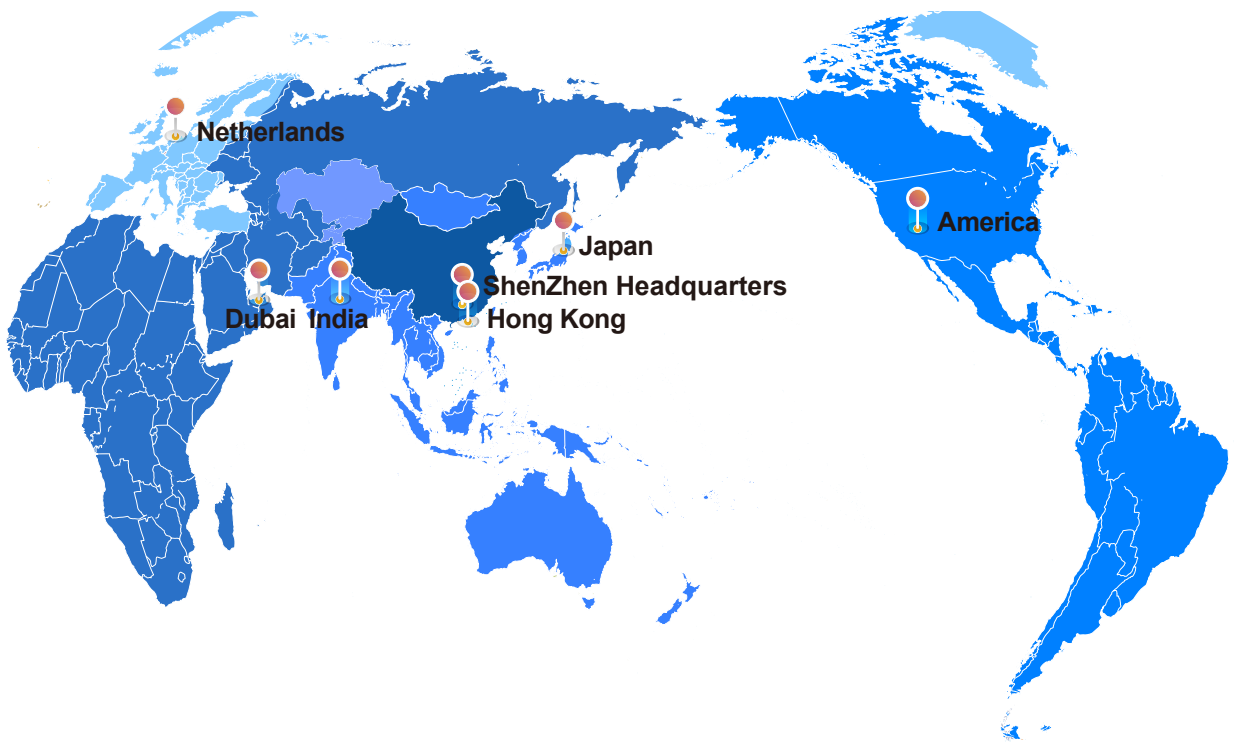
8 6-Axis & 3-Dimensional Minitrim Technology

10 "N+X" Power Redundancy Technology

Global Service Network

Multiple international subsidiaries with worldwide coverage.

Over-500-people sales & technical team to provide professional service from pre-sales to after-sales.



LIANTRONICS GLASSES-FREE 3D LED DISPLAY SOLUTION



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What is Glasses-free 3D?

Glasses-free 3D, sometimes called naked-eye 3D or glasses-less 3D, refers to the three-dimensional illusion of visual effects to be perceived by human eyes yet without auxiliary devices like 3D glasses. The glasses-free 3D LED creative display allows viewers to clearly see the vivid stereoscopic visual spectacle presented on the specific LED video walls from optimal viewing angles.

It is a new type of creative outdoor advertising. The stunning glasses-free 3D effect attracts millions of eyeballs and boosts spontaneous spreading both offline and online in a high-traffic commercial district. Compared to traditional advertising, the glasses-free 3D LED display expands the broadcasting coverage while maximizes the revenue.

LianTronics glasses-free 3D display solution includes giant LED video wall(s) and eye-catching creative display content. Cutting-edge technologies, high-quality products and breakthrough of indoor glasses-free 3D display have helped LianTronics lay the groundwork for the leading position in the indoor & outdoor glasses-free 3D LED market.



Value of Solution



Attention Grabbing

Stunning 3D effect visuals without glasses bring viewers unprecedented dramatic visual impact, facilitating extensive attention capturing and content spreading.



Immersive Interaction

Somatosensory interaction technologies can be used to generate interactive fun with audience and more immersive user experience by relying on "3D" presentation.



Traffic Booster

The giant LED billboard in a high-traffic district, with its stunning visual 3D effect, triggers passersby to share to Internet, extending spreading chain from offline to online.



Social Influence

For government and public service, glasses-free 3D digital billboards can also be used as a publicity window for antismoking, COVID-19 defence, and other national campaigns, making the ideas spread more effectively.

Topology



System Setup

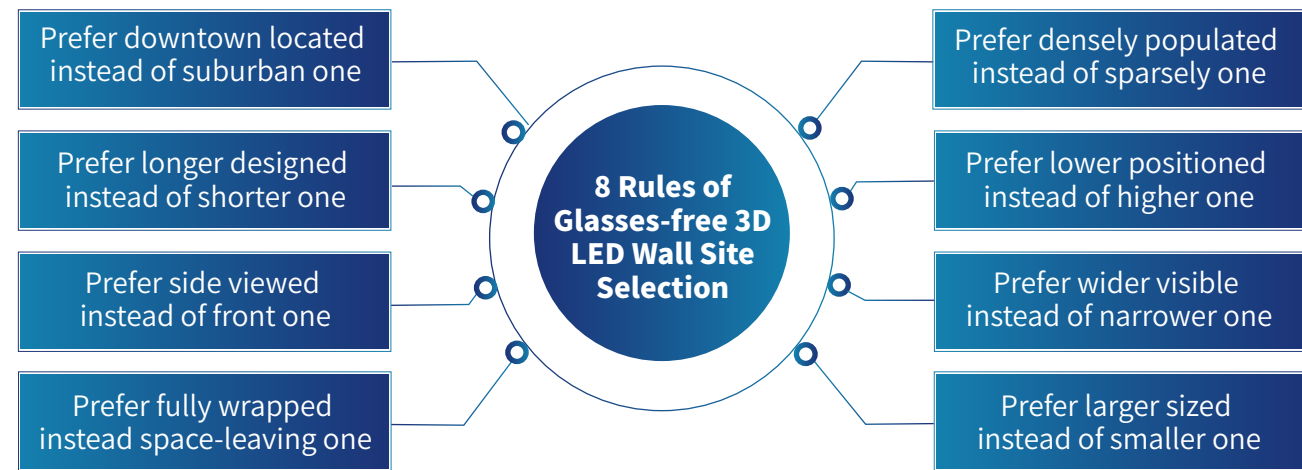
- LED video wall:** display carrier
- Signal Source:** content rendering, decoding playback, 3D correction
- LED controller:** display driver, content coding & decoding and remote transmission
- Power distribution cabinet:** powering of LED video wall system
- Intelligent central control system:** authorized broadcast operation & control
- Image processing system:** video information collection, partition, overlay, switching, special effects, output, etc.

Why LianTronics Stands Out ?

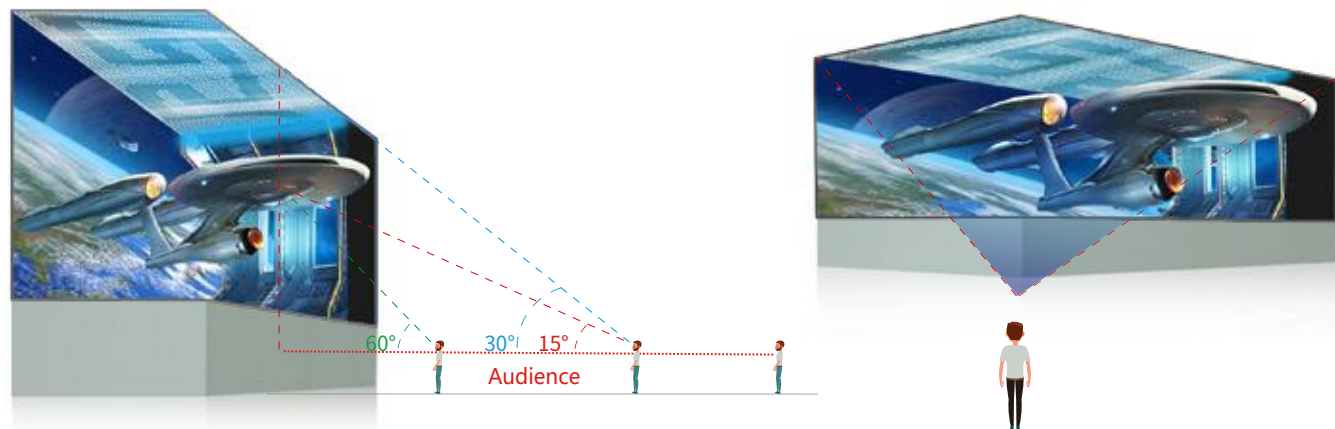


1. Professional Design

■ Leveraging exclusive 8 rules of glasses-free 3D LED wall site selection, LianTronics offers various set-up structure schemes that not only allow for lively stereoscopic effects but also perfectly match the building's facade.



■ Cracking the optimal-display-effect-proportion formula for glasses-free 3D walls and combining the on-spot position of the main audience, through accurate calculation LianTronics enables to deliver supreme 3D visual effects.



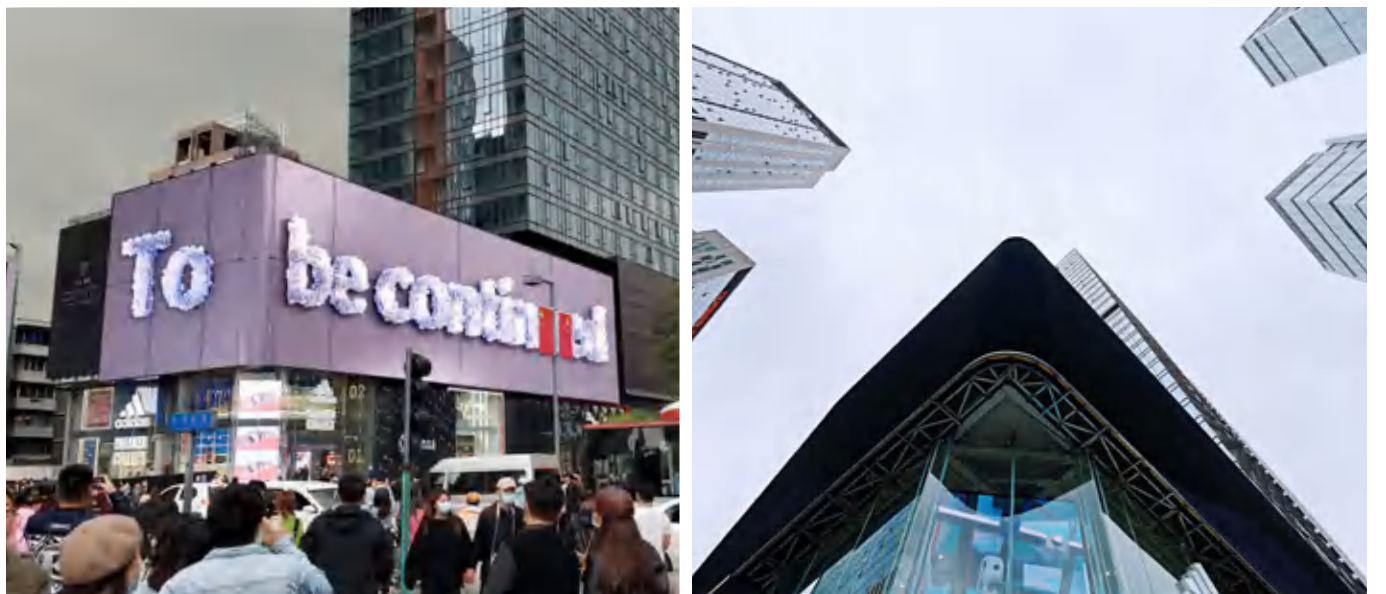
■ The video wall frame is elaborately designed in harmony with the building. In addition, through video content design like simulating the surrounding environment or creating extra border for the inside-the-screen object, strong stereoscopic sense can be generated that the object of the content is breaking out from the building.



2. Professional Technologies

Patented Seamless Curved Display Technology

■ Applying minor radius corner design to perfectly integrate with the building facade, LianTronics patented Seamless Curved Display Technology aids in the removal of physical splices and optical breaks onto the giant LED video wall, laying structural foundation for presenting 3D visual spectacle.



Patented minor radius LED wall corner



Industry's smallest & narrowest outdoor curved LED corner

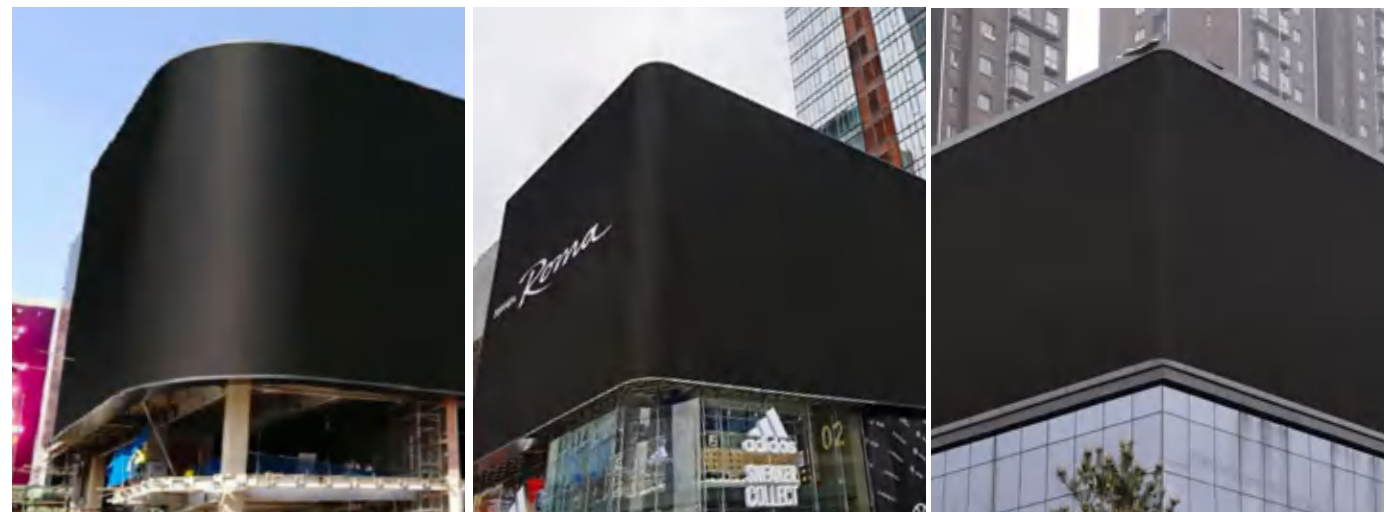


Smooth seamless splicing for stunning 3D effect



Indoor & outdoor 3D display creativity applicable

■ LianTronics has been striving to upgrade the Seamless Curved Display Technology, breaking the technology barriers for multiple times to achieve the best 3D visual effect.



3. Professional Products



Multiple Pixel Pitches

Under the same size of the LED wall, the smaller the pixel pitch, the higher clarity of the image. According to the viewing distance and angle, LianTronics offers LED display of various pixel pitches to create a perfect 3D visual effect.



High Contrast Ratio

LianTronics applies patented advanced technologies, such as spotlight-inspired mask for outdoor products and Smart Inkjet Craftsmanship for indoor ones, to ensure excellent contrast ratio, creating images with sophisticated details.



High Refresh Rate

3840Hz high refresh rate and enhanced PWM (Pulse Width Modulation) technology aid to effectively eliminate scanning lines and flickering effect, ensuring smooth and sharp broadcasting even in camera.

8K

High Image Quality

High contrast ratio, high brightness, high color conformity and more conspire to ensure high-resolution & crisp images and stunning visuals in any indoor & outdoor complex ambient lighting.



High Protection

70+ processes & 100+ tests with higher industry standards grant IP65 high protection for LianTronics outdoor LED products; For indoor products, LianTronics unique nano-coating craftsmanship provides extra guard against moisture, dust, static and LED “caterpillar” failure.



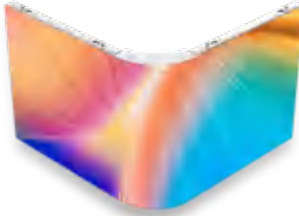
High Energy Efficiency

For sustainable development, LianTronics products adopts high-luminous-efficiency LEDs, energy-saving drive ICs and features intelligent brightness adjustment to reduce power consumption.

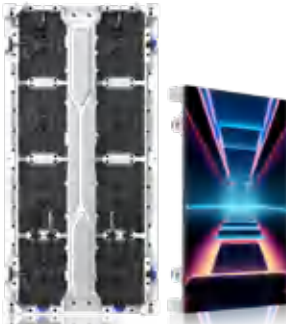
FS Series (Outdoor)



Hercules II (Outdoor)



MPA Pro II (Outdoor)



BIM MIN (Indoor)





FS Series

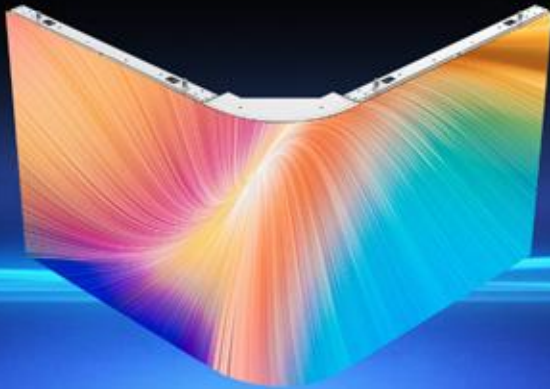
(Outdoor LED Display)

- Active Cooling System, Efficient Heat Dissipation
- High-contrast LEDs, Superior Visual Performance
- Front & Rear Waterproof Design, All-weather Durability
- 45° Bevel Modules for L-shape Splicing

Specification

Model	FS3	FS4	FS5	FS6	FS8
Pixel Pitch (mm)	3.076	4	5	6.67	8
Physical Density (Pixel/㎡)	105625	62500	40000	22500	15625
LED Type	SMD1415	SMD1921	SMD1921	SMD2727	SMD2727
Panel Size W*H*D (mm)	960*960*109				
Panel Resolution W*H (Pixel)	312*312	240*240	192*192	144*144	120*120
Panel Material	die cast aluminum				
Weight (Kg/m²)	29±5%				
Voltage (V)	AC100~240				
Brightness (nits)	5000~6000	5500~7000	5500~7000	6000~10000	6000~10000
Brightness Adjustment	Programmable / Auto / Manual				
Viewing Angle (H/V)	140° / 120°				
Gray Scale (bit)	14 / 16				
Refresh Rate (Hz)	3840-7680				
Frame Rate (Hz)	50 / 60				
Contrast Ratio	8000:1				
Color Temperature (K)	2000~10000				
Average Power Consumption (W/m²)	170				
Maximum Power Consumption (W/m²)	680				
Maintenance	Rear				
IP Rating	Front IP65 / Rear IP54				
LED Lifetime (Hours)	100000				

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



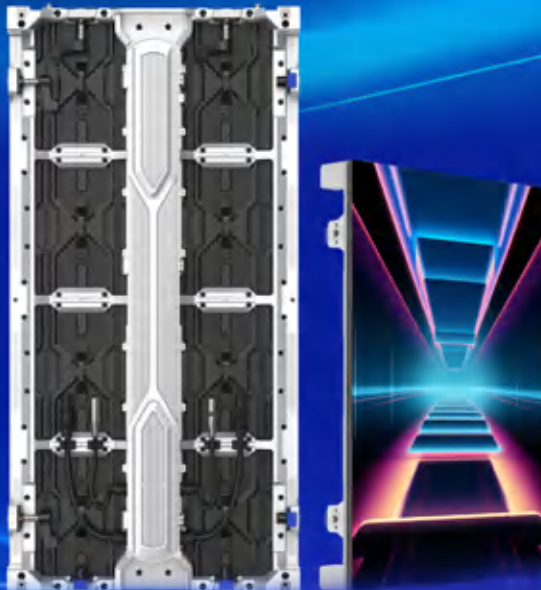
Hercules II Series

(Outdoor LED Display)

- Thinner, Lighter & 40% Energy Saving
- Install & Maintain with Higher Flexibility
- Ultra-High Brightness,High Refresh Rate
- Exceptional Picture Quality

Specification

Model	Hercules II6.67	Hercules II8	Hercules II10
Pixel Pitch (mm)	6.67	8	10
Physical Density (Pixel/㎡)	22500	15625	10000
LED Type	SMD		
Panel Size W*H*D (mm)	960*1280*78/960*960*78		
Panel Resolution W*H (Pixel)	144*192/144*144	120*160/120*120	96*128/96*96
Panel Material	Aluminum		
Weight (Kg/m²)	28		
Voltage (V)	AC110~220		
Brightness (nits)	7500~10000		
Brightness Adjustment	Programmable / Auto / Manual		
Viewing Angle (H/V)	160° / 120°		
Gray Scale (bit)	16		
Refresh Rate (Hz)	7680		
Frame Rate (Hz)	50 / 60		
Contrast Ratio	7000:1	8000:1	12000:1
Color Temperature (K)	2000~10000 (Adjustable)		
Average Power Consumption (W/m²)	170		
Maximum Power Consumption (W/m²)	680		
Maintenance	Front / Rear		
IP Rating	IP66		
LED Lifetime (Hours)	100000		



MPA Pro II Series

(Outdoor LED Display)

- Die-casting Aluminum Panel for Effortless Handling
- Excellent Heat Dissipation for Color Consistency
- Dual Backups with High Brightness as Ever
- IP65 High Protection

Specification

Model	MPA Pro II 3.9	MPA Pro II 4.8
Pixel Pitch (mm)	3.9	4.8
Physical Density (Pixel/㎡)	65536	43264
LED Type	SMD	
Panel Size W*H*D (mm)	500*1000*90 / 500*750*90	
Panel Resolution W*H (Pixel)	128*256 / 128*192	104*208 / 104*156
Panel Material	Die - Casting Aluminum	
Weight (Kg/m²)	14.5/11.5	
Voltage (V)	110-220V	
Brightness (nits)	6000-7000	5500-7000
Brightness Adjustment	Programmable / Auto / Manual	
Viewing Angle (H/V)	160° / 140°	
Gray Scale (bit)	14	
Refresh Rate (Hz)	3840	
Frame Rate (Hz)	50 / 60	
Contrast Ratio	6000:1	
Color Temperature (K)	2000~10000 (Adjustable)	
Average Power Consumption (W/m²)	175	175
Maximum Power Consumption (W/m²)	700	700
Maintenance	Front/Rear	
IP Rating	IP65	
LED Lifetime (Hours)	100000	

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Specification

Model	BIM MIN1.5	BIM MIN1.9	BIM MIN2.6	BIM MIN3.9
Pixel Pitch (mm)	1.5	1.9	2.6	3.9
Physical Density (Pixel/m²)	409600	262144	147456	65536
LED Type	SMD			
Panel Size W*H*D (mm)	Regular: 375*1000*39 / 375*750*39 / 375*625*39 Can be customized according to project requested size			
Panel Resolution W*H (Pixel)	240*640 / 240*480 / 240*400	192*512 / 192*384 / 192*320	144*384 / 144*288 / 144*240	96*256 / 96*192 / 96*160
Panel Material	Steel			
Weight (Kg/pc)	11.5/ 9 / 7.5			
Voltage (V)	AC 110-240			
Brightness (nits)	600	900	900 / 3000	900 / 3000
Brightness Adjustment	Programmable / Auto / Manual			
Viewing Angle (H/V)	160°/ 160°			
Gray Scale (bit)	14-16			
Refresh Rate (Hz)	3840	3840	3840	3840
Frame Rate (Hz)	50 / 60			
Contrast Ratio	8000:1	8000:1	6000:1	6000:1
Color Temperature (K)	2000~10000 (Adjustable)			
Average Power Consumption (W/m²)	125			
Maximum Power Consumption (W/m²)	500			
Maintenance	Front			
IP Rating	Front IP30 / Rear IP20			
LED Lifetime (Hours)	100000			

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4. Professional Content

One-Stop 3D Video Customization

- **Exclusive Production Team:** Self-built professional video production team provides customized one-stop service from idea generation, video rendering to final artwork production.
- **3D Content Creativity:** Integrating local culture and iconic elements, the 3D display creativity generates immersive visuals with evocative content to arouse sharing to Internet, expanding transmission chain from offline to online.
- **Full-Difficulty Coverage:** With video production capabilities of different difficulties aiming to build go-viral contents, the finished 3D LED visuals are eye-catching to satisfy different needs.



Level A Difficulty

Core objects are static models (moving but does not change in essence), such as a spaceship or a cellphone.



Level B Difficulty

Core objects are dynamically changing models, such as moving people, animals, etc.



Level C Difficulty

Core objects are dynamic particle models, such as waves, smoke, or flames.



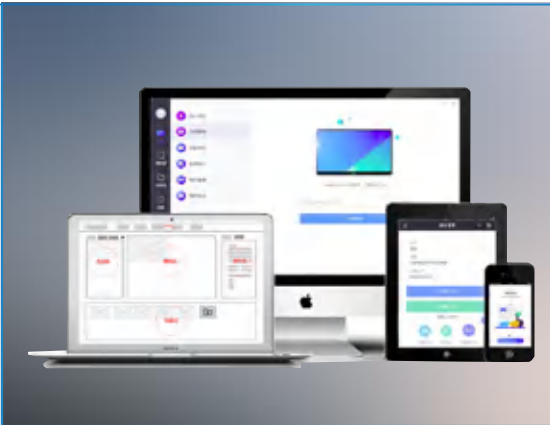
Glasses-free 3D Video Customization

Creativity Communication -- Model Production -- Video Rendering -- On-Screen Testing -- Final Artwork Presentation

5. Professional System

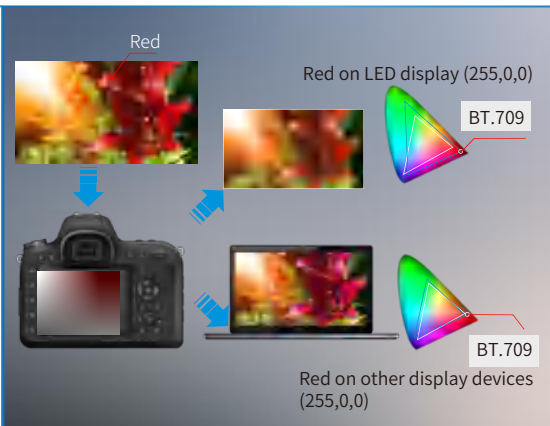
Highly Integrated Control System

To reduce learning time and misuse, the playback interface has an extremely simplified layout; the broadcast control system combines central control docking, lighting linkage, sound management, and other functions into one. It also supports login of Android, Windows, iOS, and other platforms.



Standardized Color Conformity

In accordance with international BT.709 color gamut standards, LianTronics (the first manufacturer to propose color conformity solution) system considerably avoids color inconsistency, image distortion and other problems caused by different color uniform standards of various display panels.



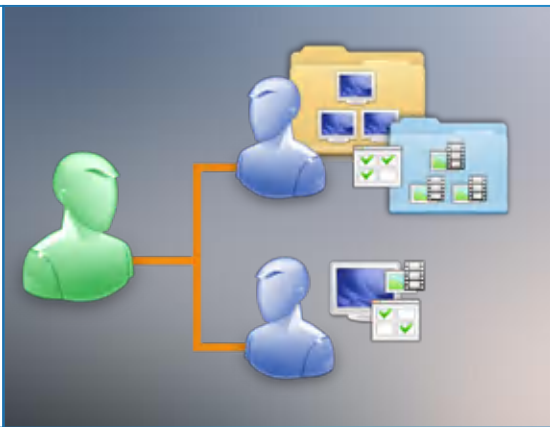
Fluent & Sync Broadcasting with DCDi Technology

The adoption of Faroudja DCDi Dynamic Technology facilitates 3D video playback with extreme-high resolution and wide dynamic range, significantly eliminates images flickering and stuttering caused by insufficient signal transmission bandwidth or refresh rate.

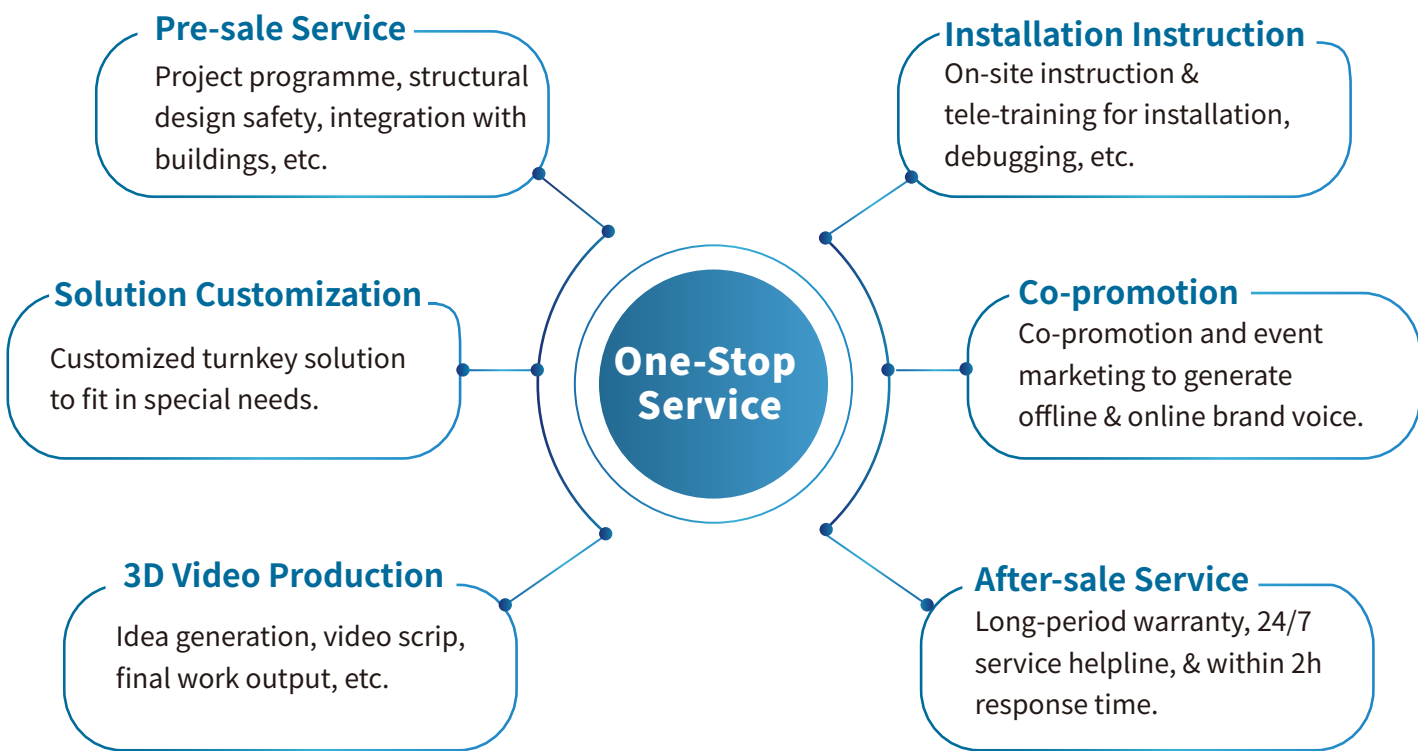


Multiple Encryption for Higher Safety

Transmission Encryption: SSL protocol grants secure transmission; CA Certificate authenticates user identity.
Storage Encryption: MD5 is used as an encryption for files.
System Authorization: External applications are not allowed to be installed without authorization.
User Privilege & Restrictions: Access privileges vary in content and setting; external display content need to be examined and verified.



6. Professional Service



Trustworthy Service Team

Professional engineer team, with average 8 years of industry experience, delivers trustworthy installation instruction & debugging service and after-sale warranty. Professional marketing and video-rendering team conspire to provide you with considerate customized service.



GLASSES-FREE 3D LED DISPLAY CASES

With high quality products and trustworthy pre-to-after-sale service, LianTronics has completed over 40 glasses-free 3D projects in 30+ cities, totaling nearly 30000sqm and generating tremendous commercial value beyond expectations.



Internet-go-viral 3D LED Billboard in Sino-Ocean
Taikoo Li Chengdu 1200m²



High Brightness 3D LED Billboard in Tianhai International Plaza, Tibet 600m²



Harbin Xinyi Department Store 3D LED Billboard, China 900m²



Outdoor Small-Pitch LED Video Wall in Museum of Art Pudong, Shanghai 1000m²



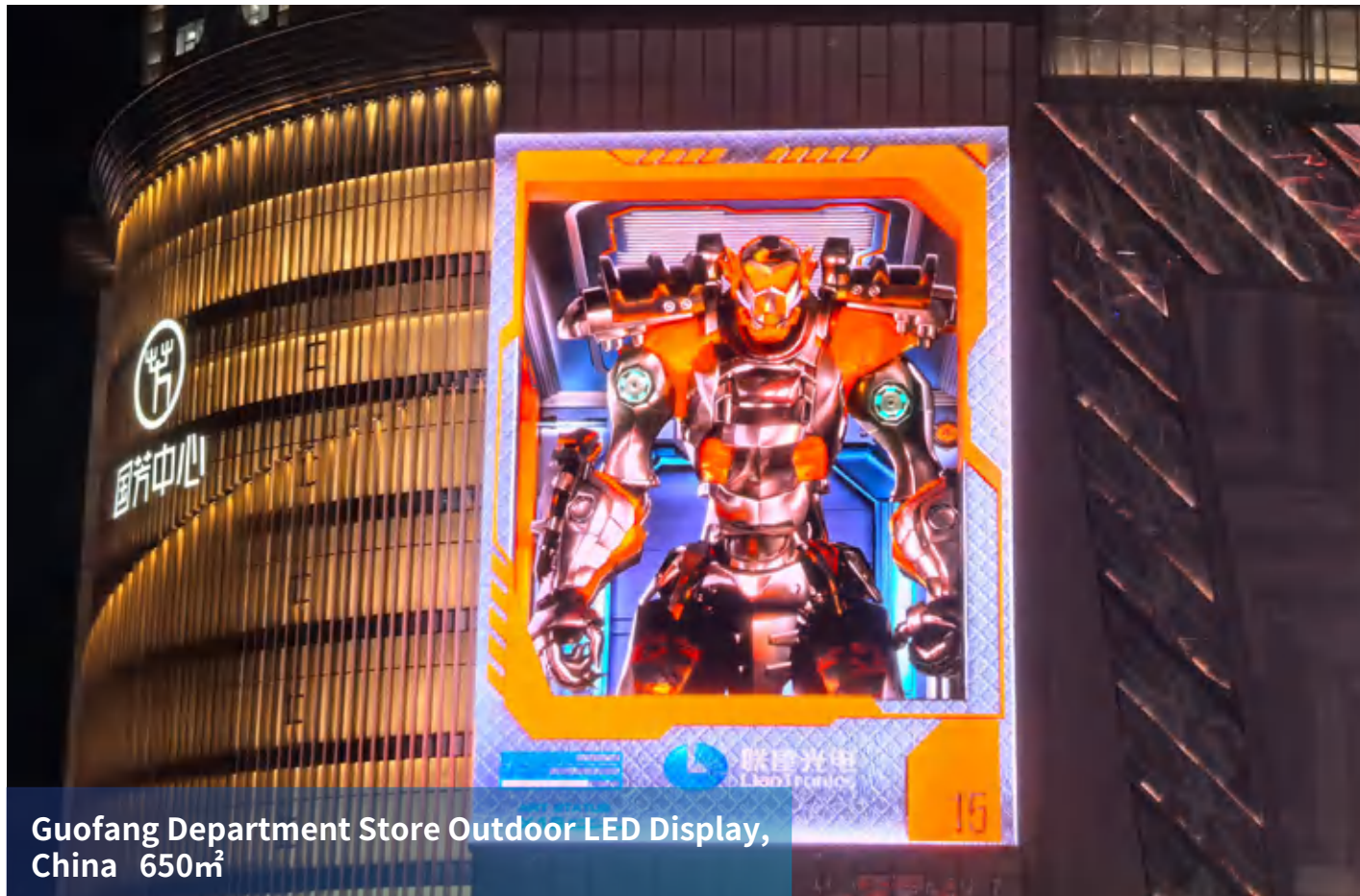
Shantou Small Park Outdoor 3D LED Video Wall, China 216m²



Outdoor Naked-eye 3D Display on Harbin Central Street, China 412m²



Dongguan Huanyu Huijin Center: A Stunning Outdoor Naked-Eye 3D Display Landmark



Guofang Department Store Outdoor LED Display, China 650m²

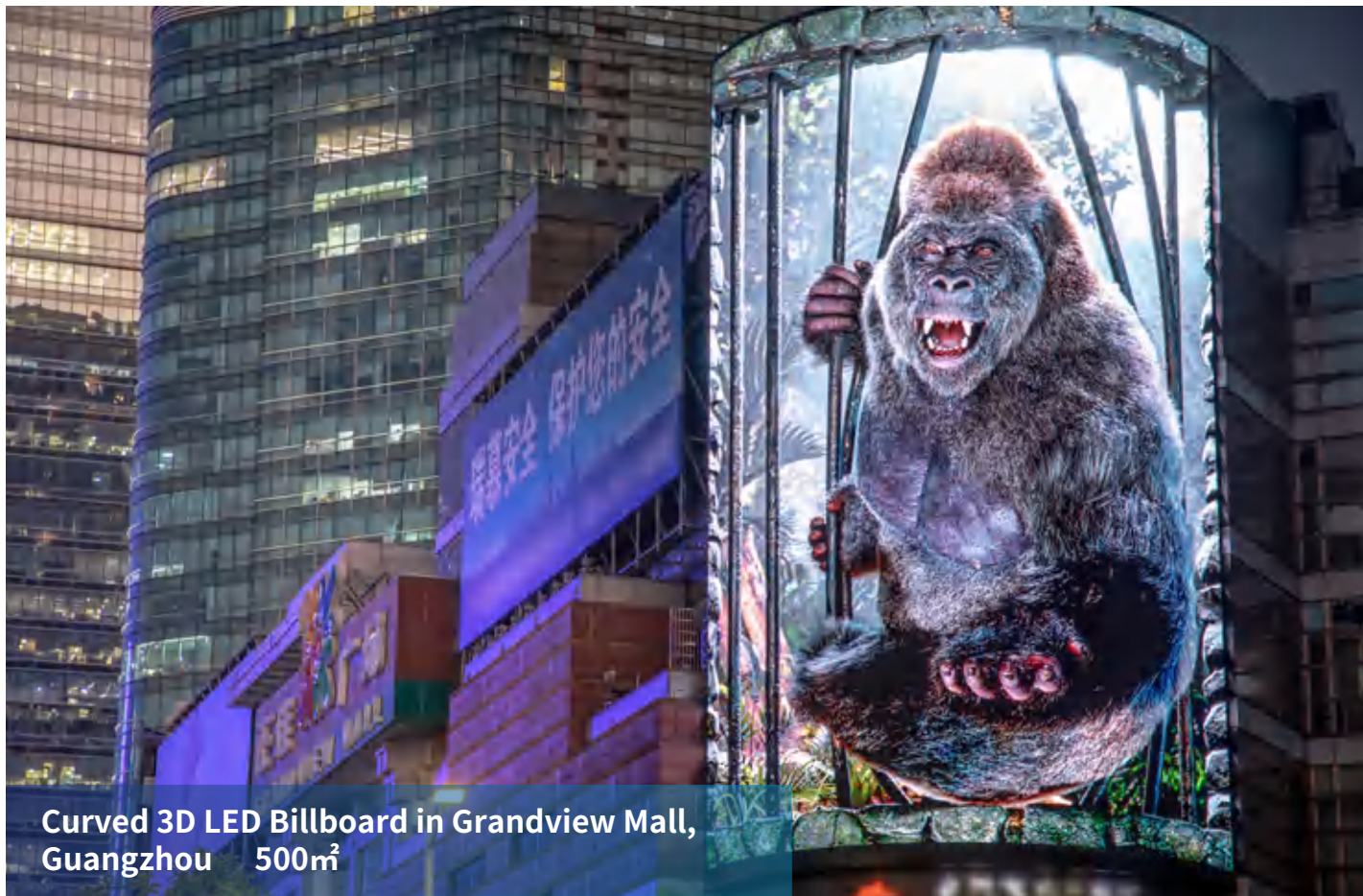




Glasses-free 3D Digital Billboard in Huaxi Shizi Street, Guiyang 306m²



Outdoor Creative Glasses-free 3D Digital Billboard for M Space, Chengdu 500m²



Curved 3D LED Billboard in Grandview Mall, Guangzhou 500m²



