



FA66、FA8、FA10

Outdoor Fixed Installation
Aluminum Modules Series

PRODUCT MANUAL



> Flame Resistance



> Low power consumption
and energy-saving



> Protection level reach IP68



> Aluminum Material Proposal



> Front and Rear Maintenance

Product Information



Common Cathode Aluminum Screen is a high-protection designed and most common used LED display product to meet the needs of outdoor large-scale Place. It is generally used in commercial center, airport terminal, large-scale summit, city landmark, exhibition center etc.

It is to adopt fully aluminum configuration solution, to make it be more light, strong and stable. Its protection level has got extremely improved, its dustproof and waterproof have reached up to IP68 which has verified by professional testing institution, the box (product-body) is just 28.50KG.



Anti-Flaming, Strong Adaptability in Environment

It is to adopt fully aluminum material, it can anti-flaming, high temperature durability, fast heat-dissipation. The protection shade is VO standard anti-flaming material, it can't be flamed to work under high temperature environment.



700 degree anti-flaming

The LED display is to adopt full sealed die-casting aluminum as substrate, to protect its inner components, to make the display body be able to withstand high temperature and low temperature, anti-corrosion, it has a strong adaptability in environment, it can work whole of day in outdoor, being super stability and high protection.



It can work in the environment of 80°C at the most

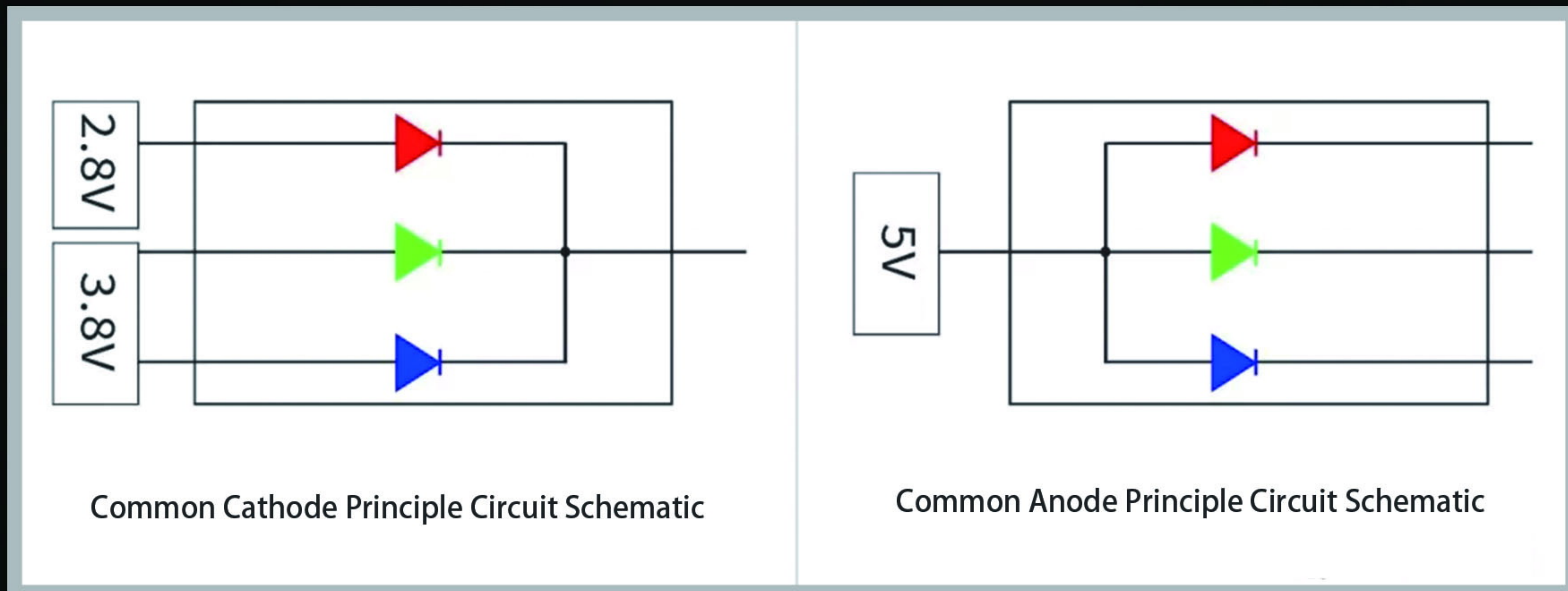


It can work in minus 40°C at the least



It can work normally in seaside permanently

Common Cathode Aluminum Display is getting through to divide R, G, B for power supply solution, which is effective to reduce power consumption, the heat-generation is small, plus aluminum substrate which is fast heat-dissipation, it is natural low heat-generation. The energy-saving can be at the most of 75% under the situation to guarantee high brightness and high contrast ratio.



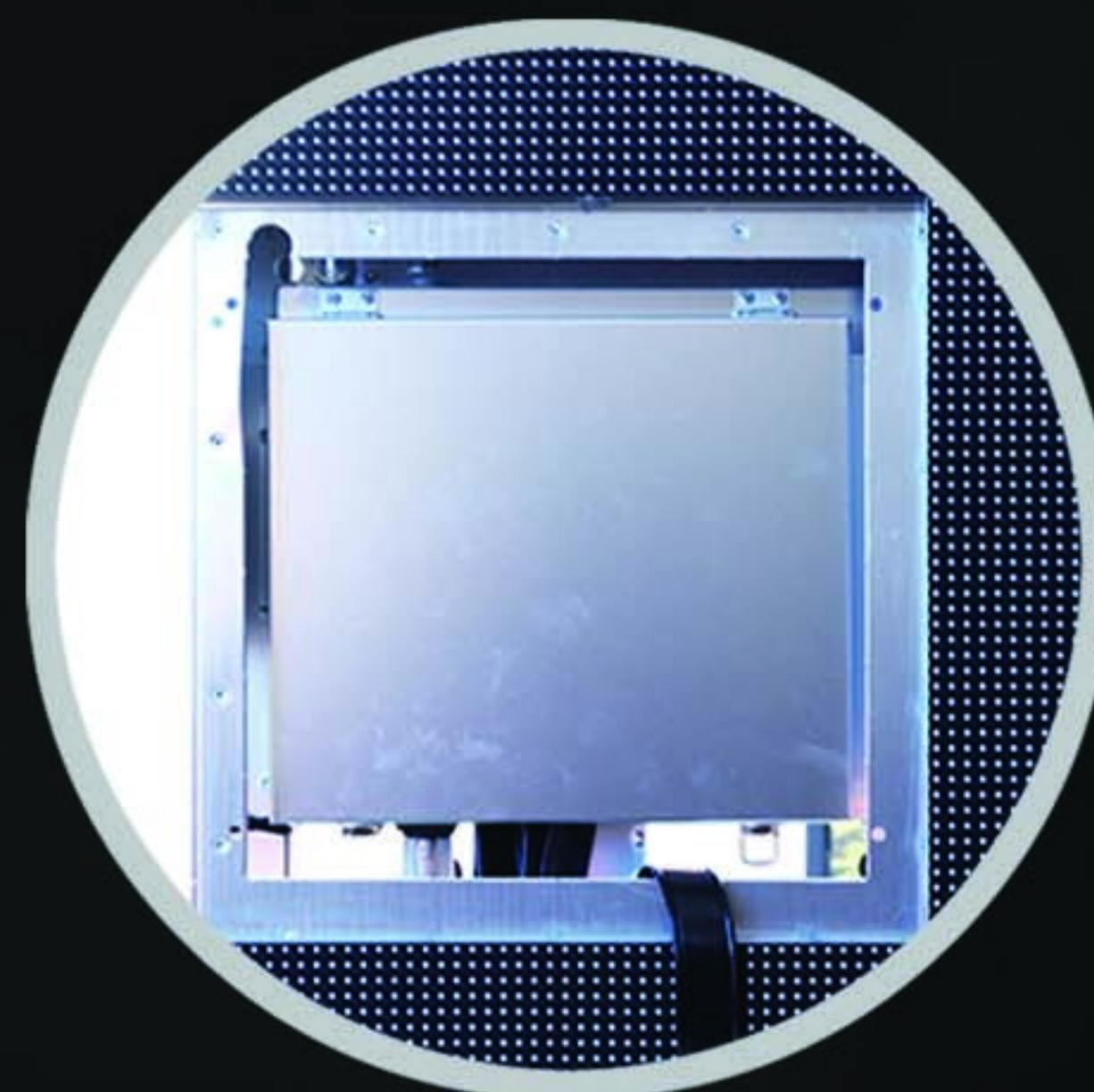
Full Aluminum Cabinet



Fast Lock for Rear Maintenance of Power Box



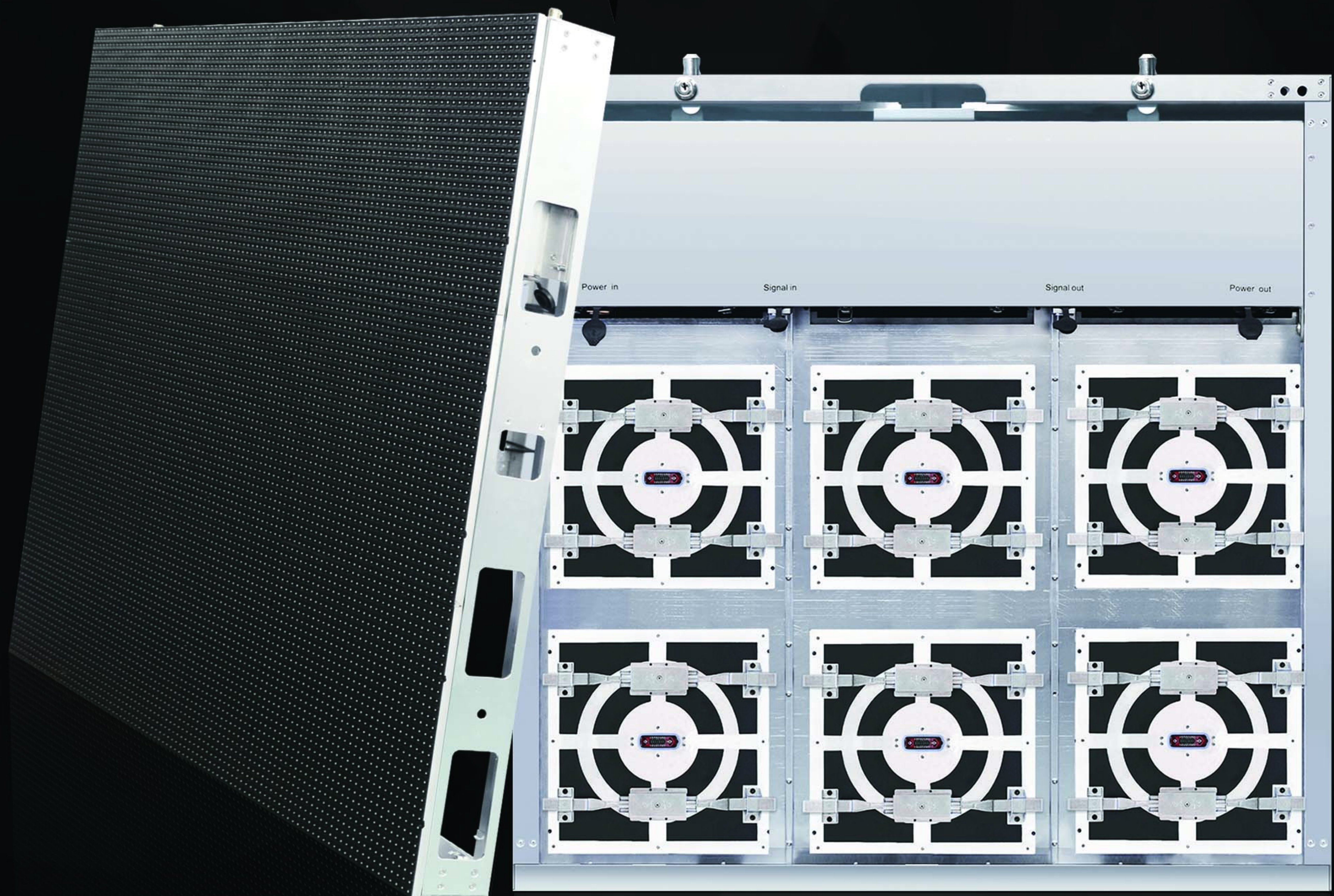
Full Aluminum material edge covering cabinet



Module front and rear maintenance

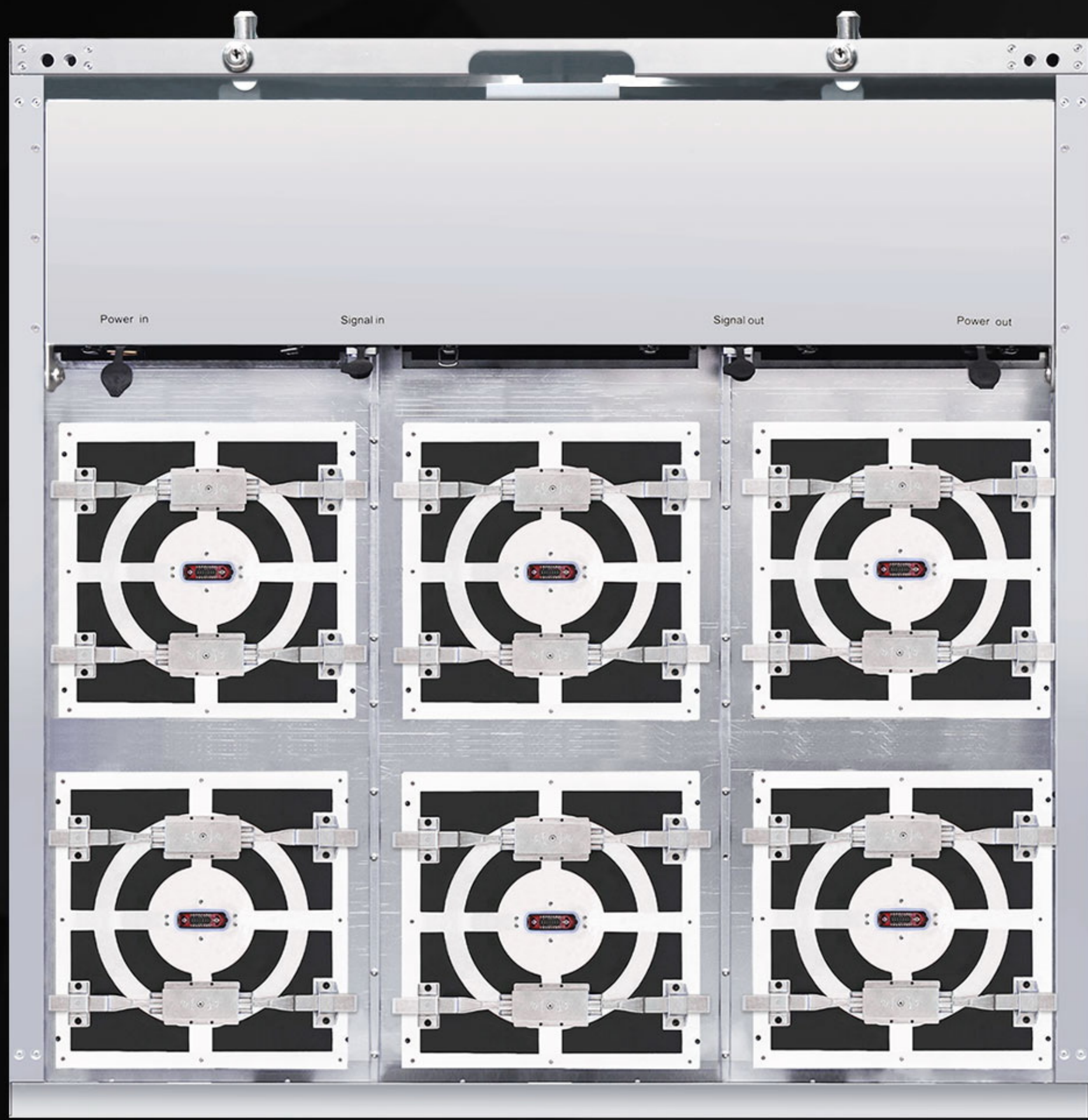


Power supply front and rear maintenance



Full aluminum material combined with exquisite craftsmanship
High definition display become lighter, more
environmental and stable

Cabinet Comparison



Compared to iron, aluminum has the characteristics of light weight, good toughness, corrosion resistance and better electrical conductivity. In the humid environment, it can form a layer of waterproof metal corrosion oxide film, effectively prevent further corrosion. As a new general-purpose metal, it is widely used due to its lightness, good electrical and thermal conductivity, high reflectivity, and resistance to oxidation



PK

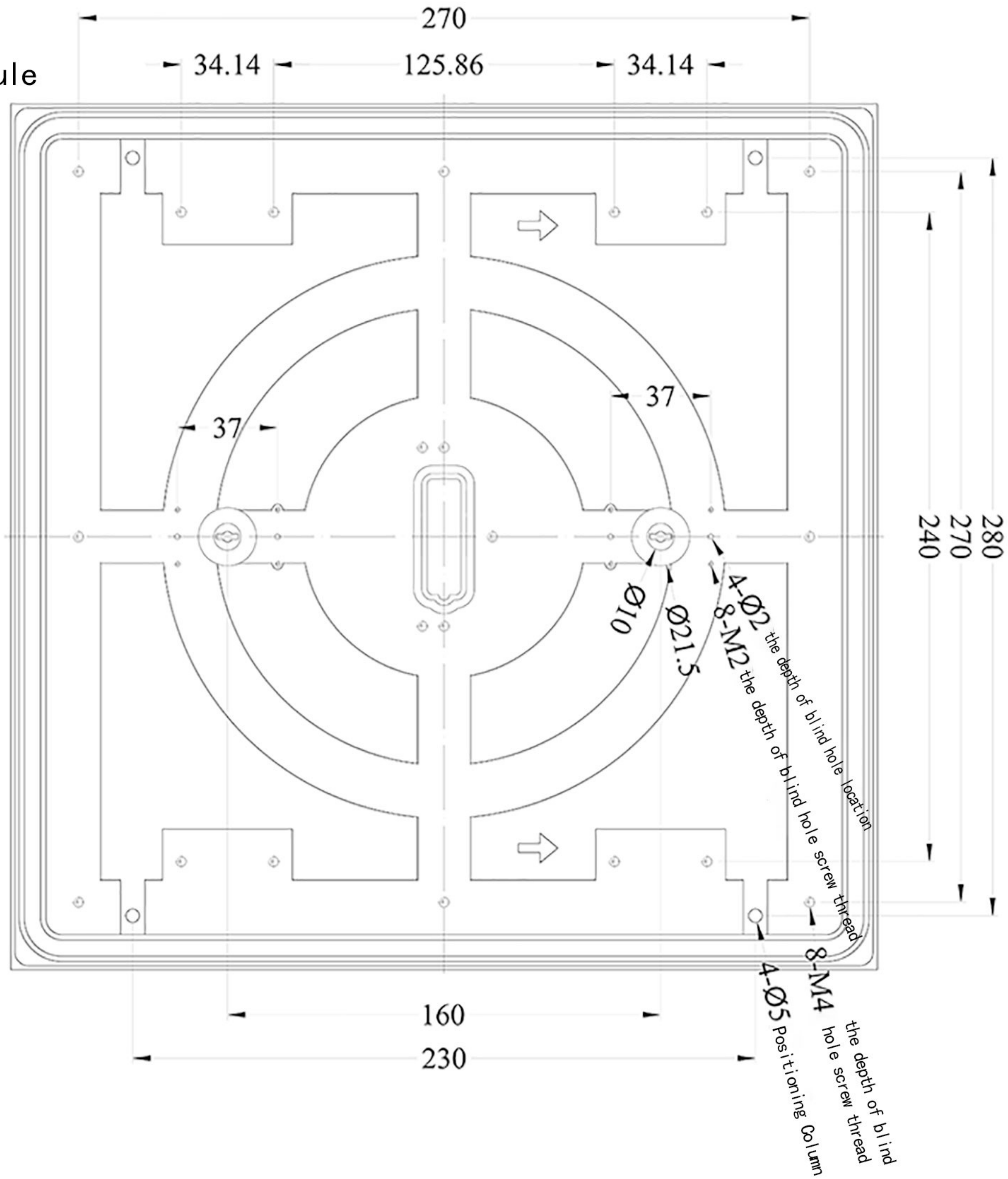


At normal temperatures, iron does not react easily with non-metallic elements such as oxygen sulfur, and chlorine in dry air. If impurities are present it can easily corrode in humid air; especially in the moist air of acid, alkali, or salt. Therefore, the iron material needs more maintenance and adaptation with the surrounding environment.



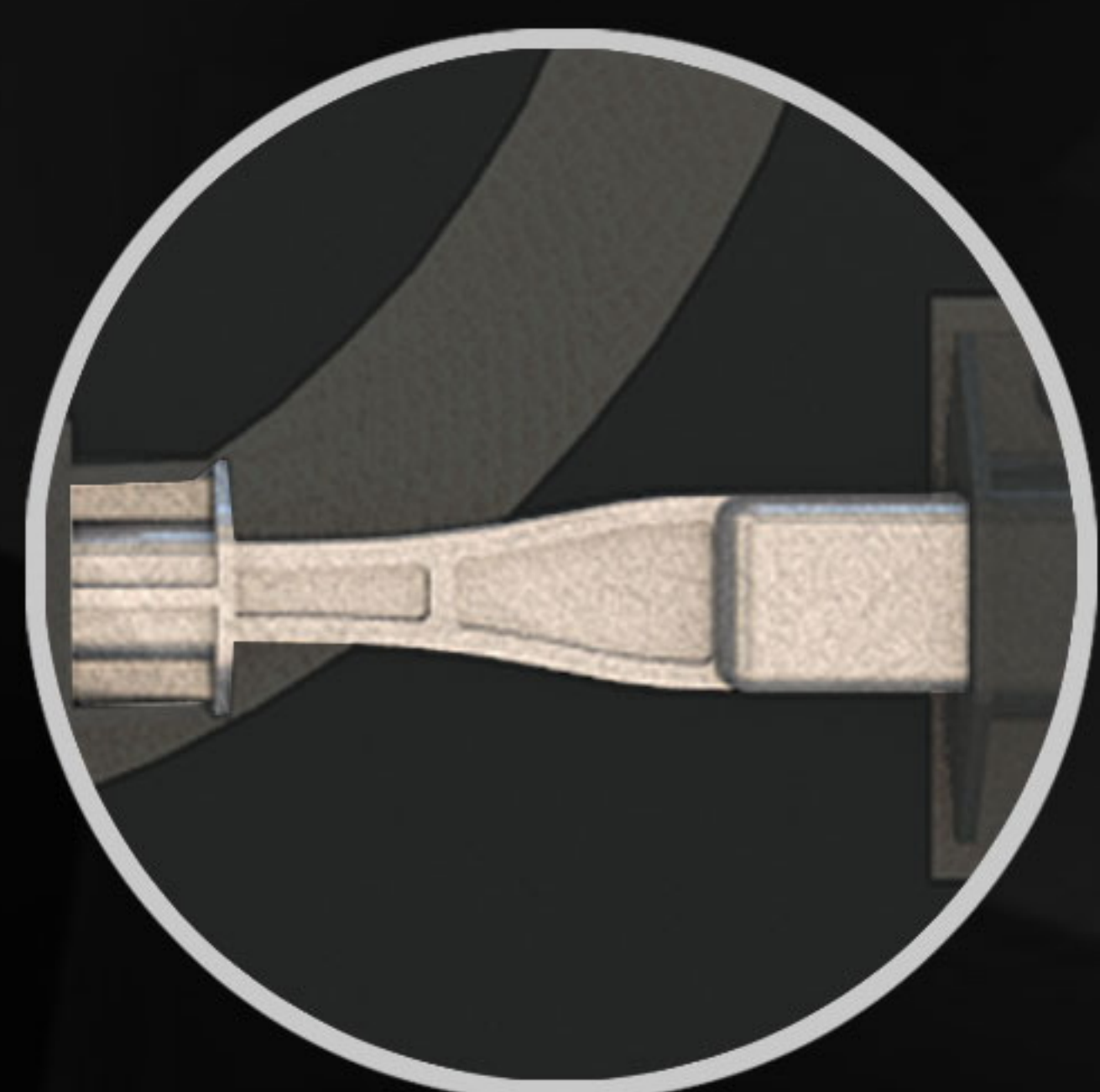
Installation Hole of Module

(Remark: the unit of all sizes is mm)

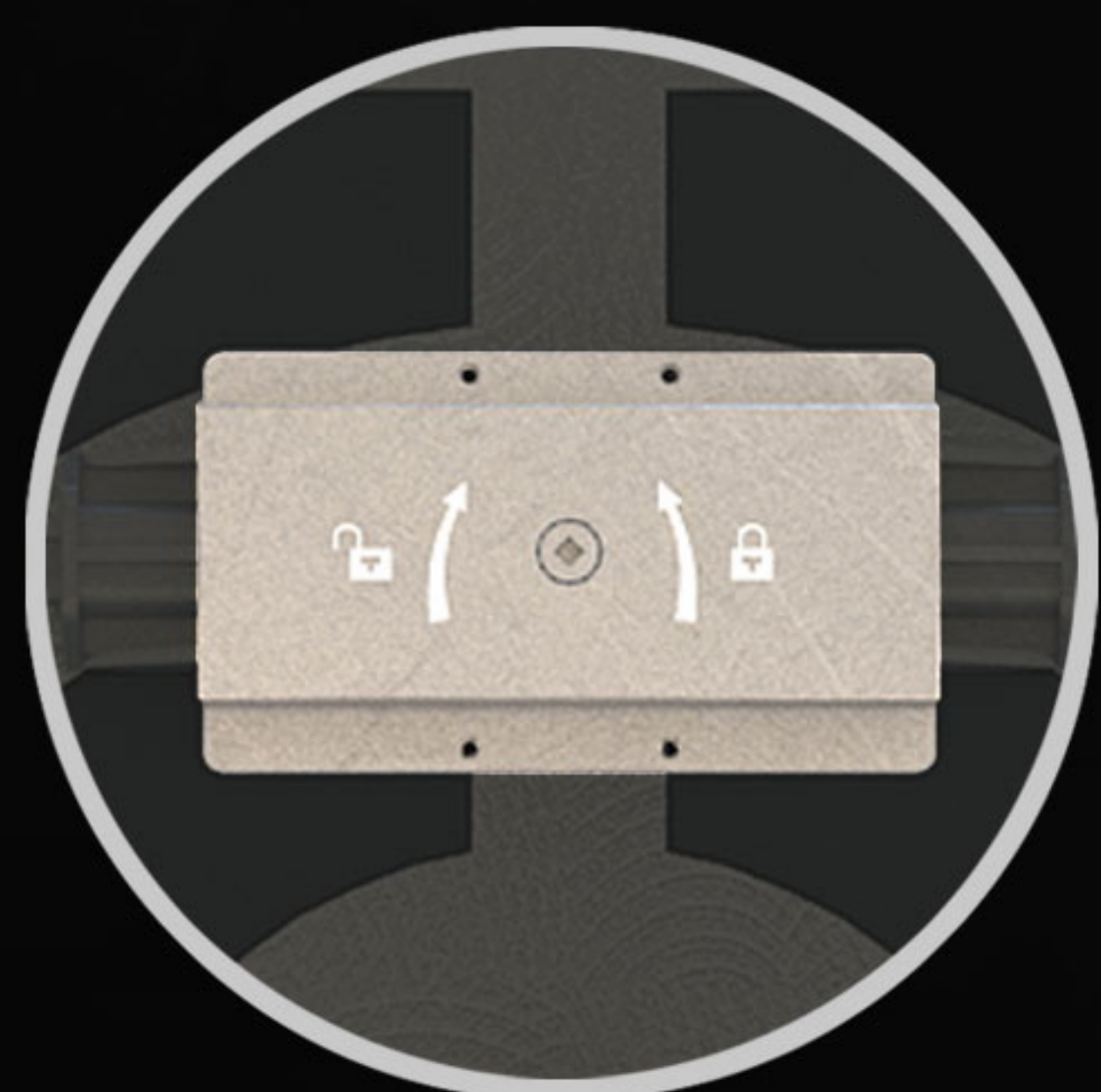


Module Details

Fully new aluminum substrate module, it is designed by complete sealed packing, to adopt edge lock structure, making it be easy for assembling or disassembling, it configures complete 3-in-1 waterproof plug-in and cables.



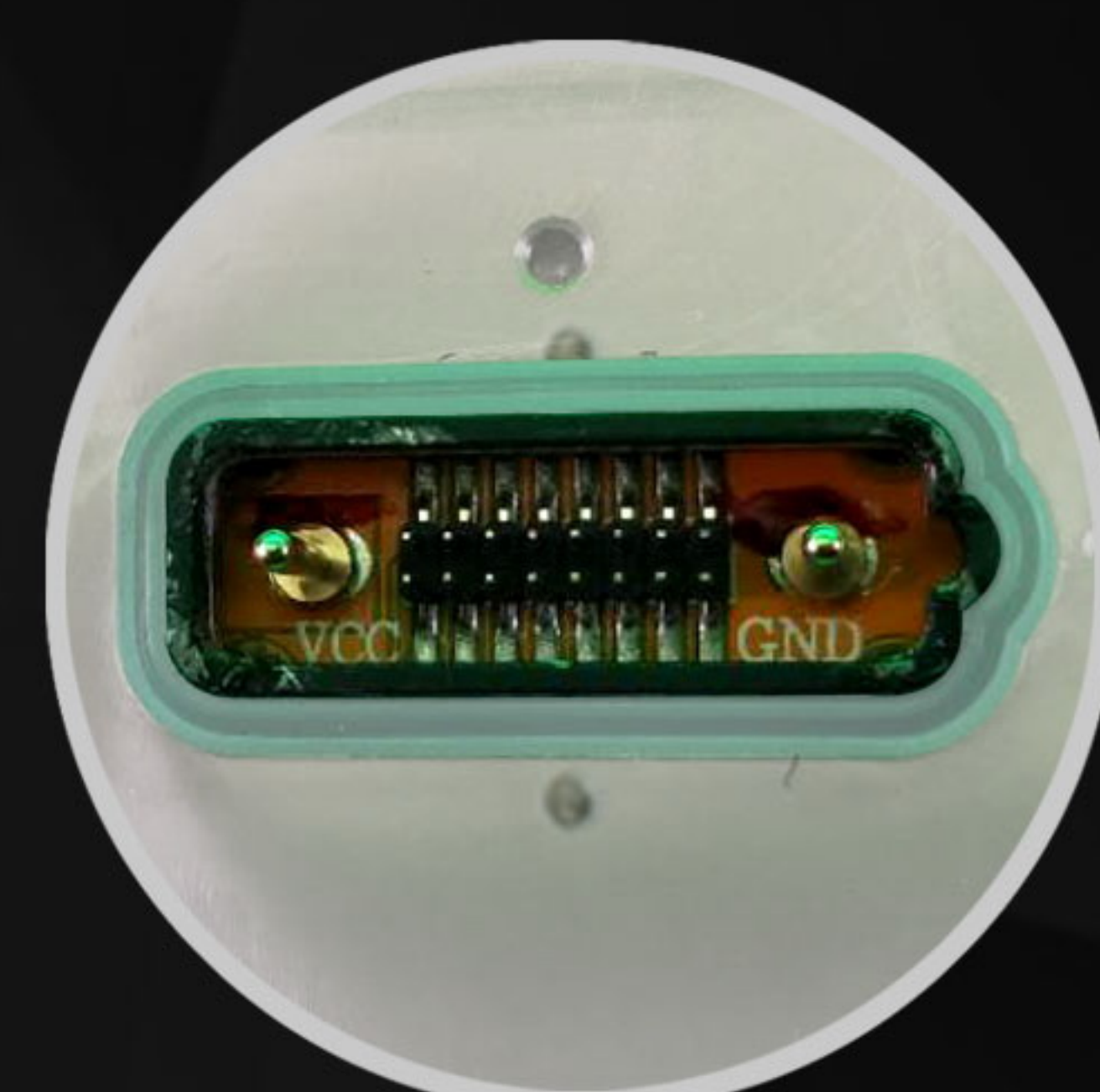
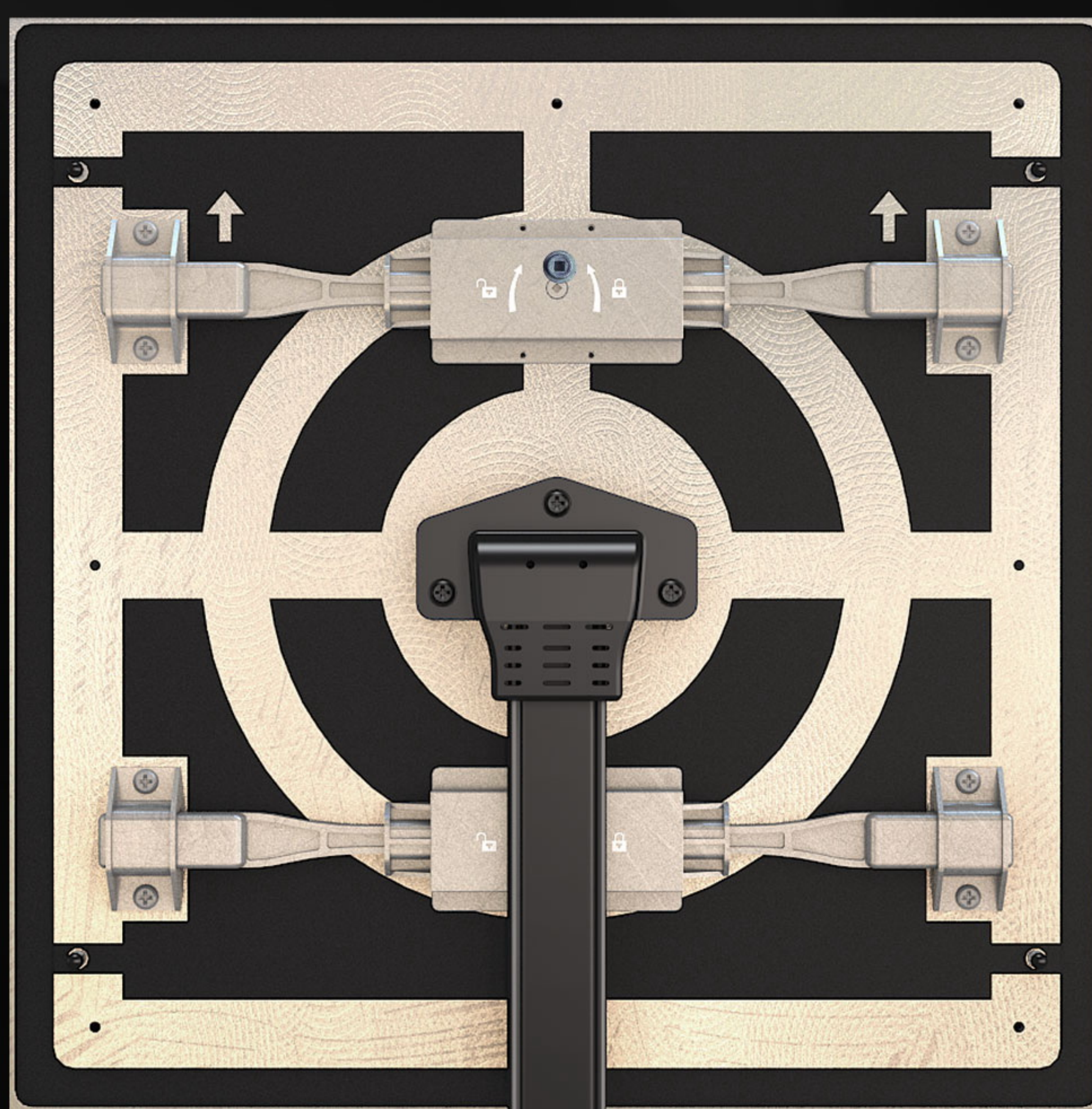
Lock Bolt



Zinc Alloy Lock Cylinder



Galvanized Lock Catch



Waterproof Rubber

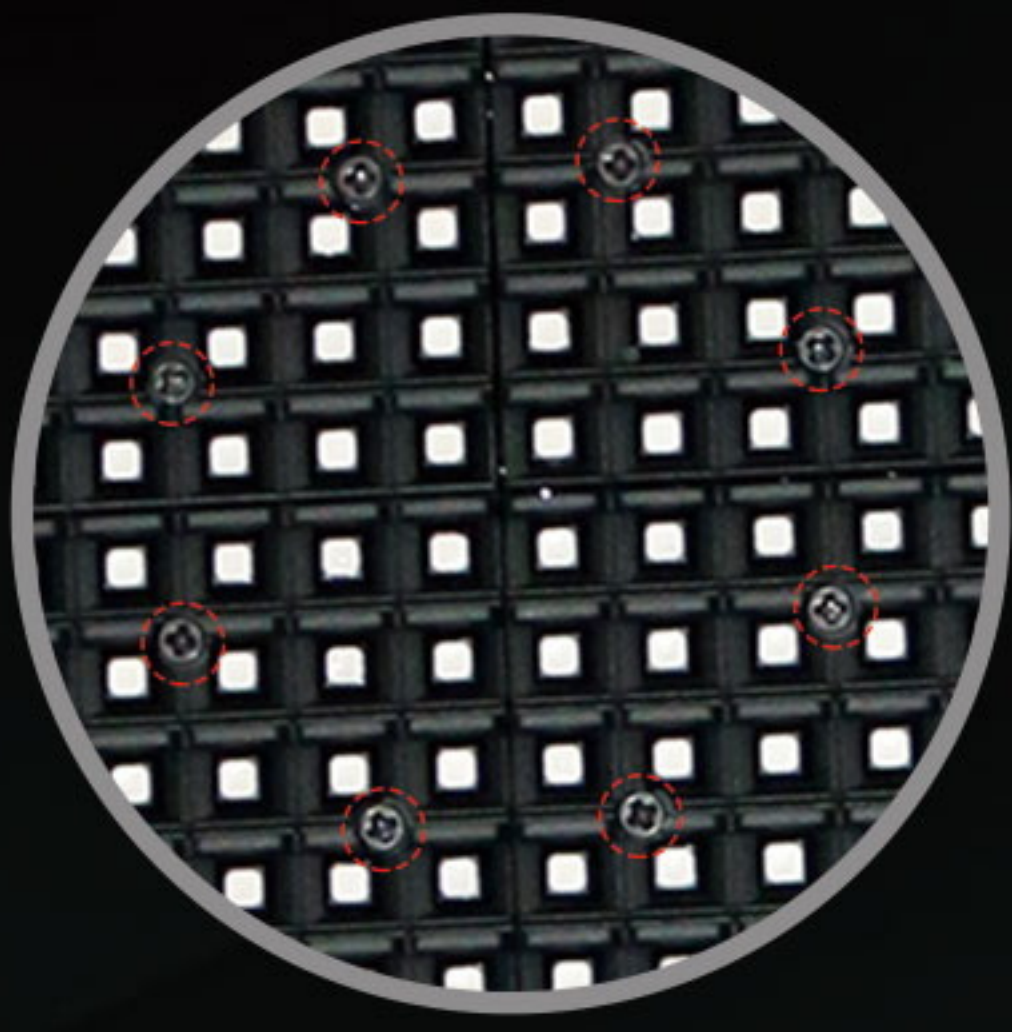


3-in-1 waterproof plug

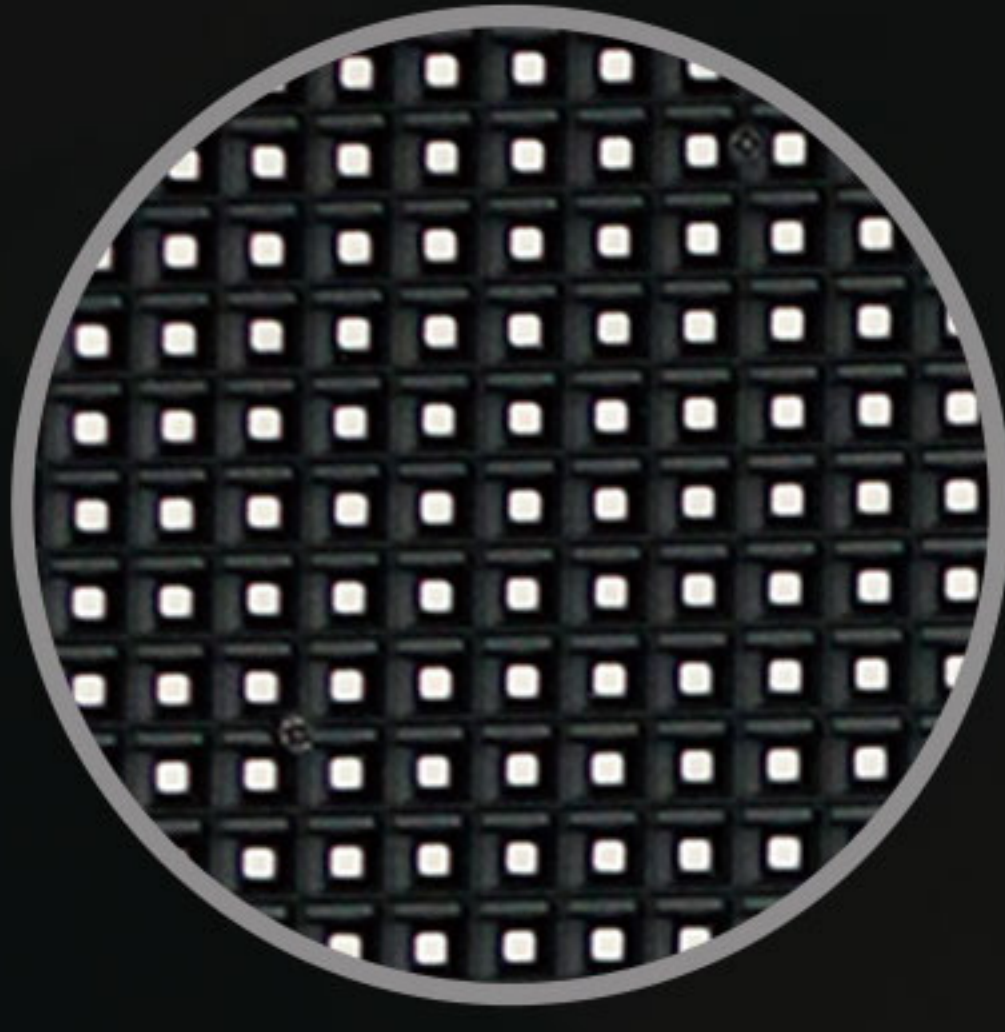


Waterproof Cable

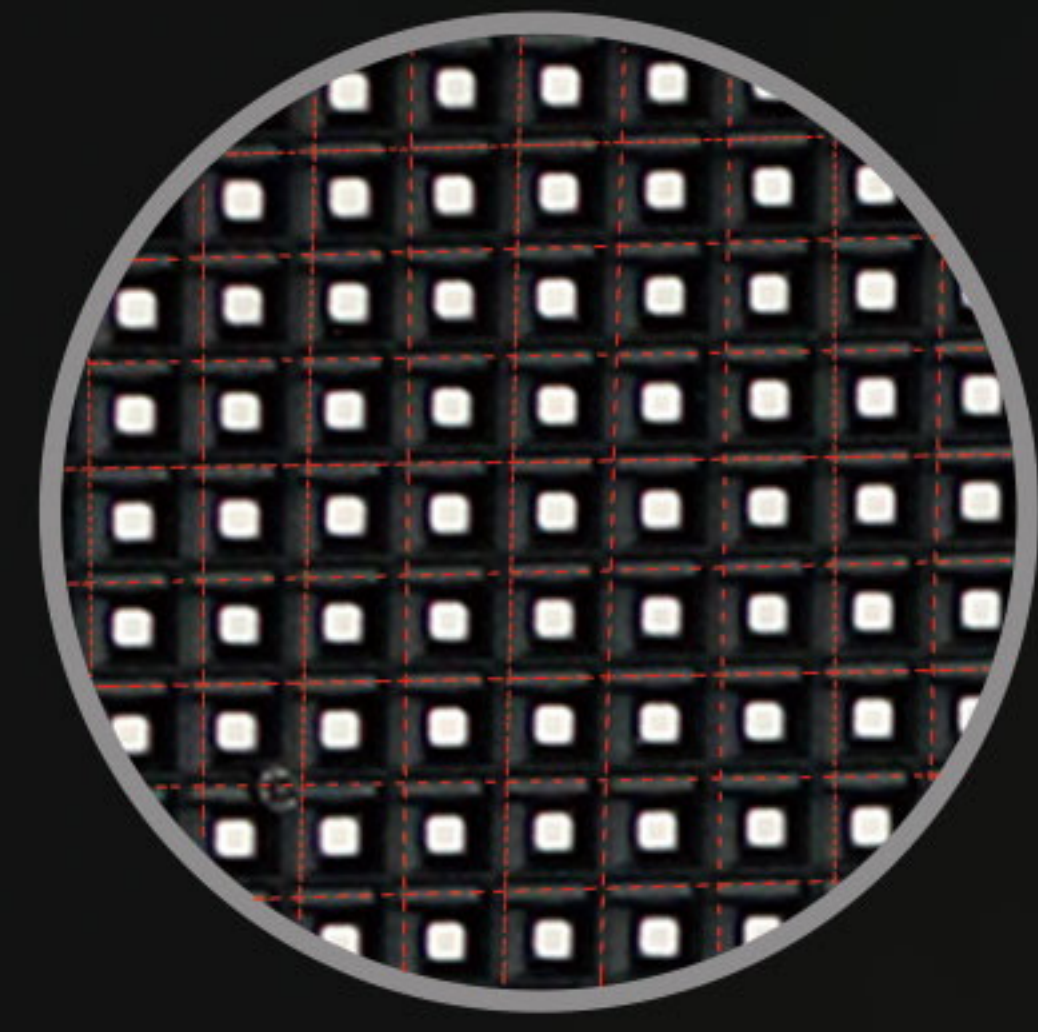
Detail Characteristic



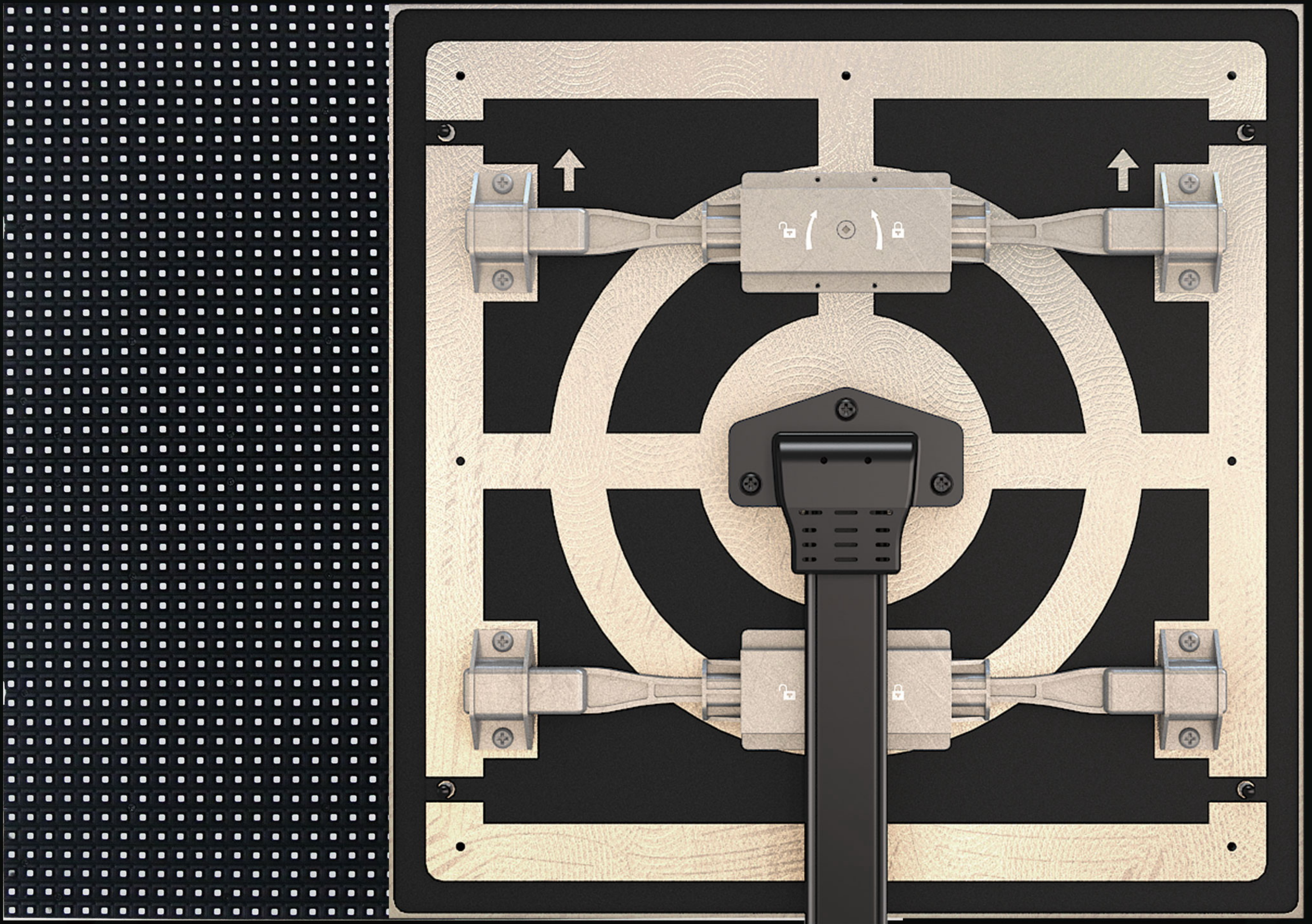
304 Stainless Steel Screw
(Anti-corrosion, Non-slip, Non-deformation)



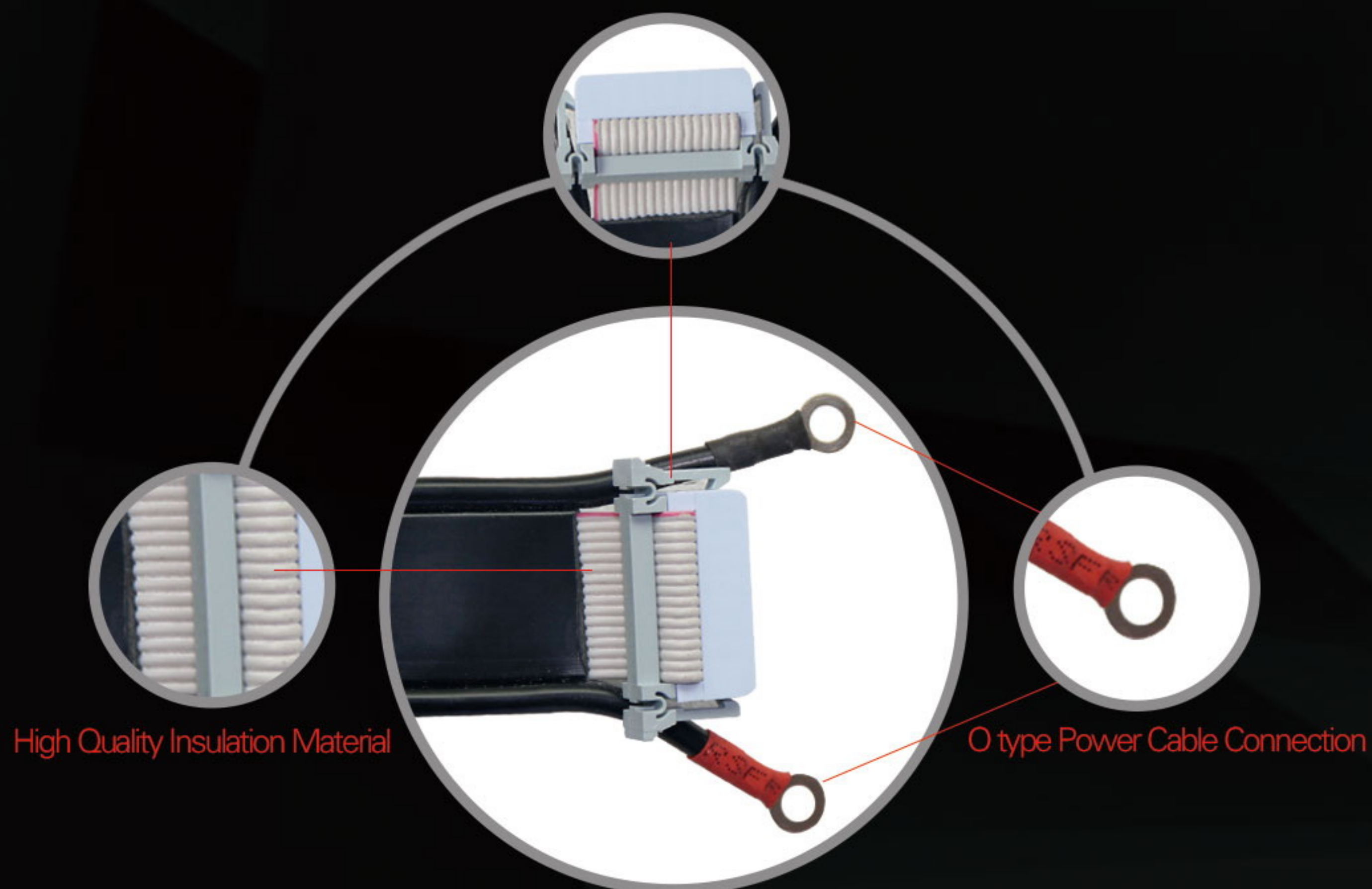
Matt Oil Varnished Mask
(Flame Resistance, Water-proof, Non-deformation)



Lamp Pitch Design
(Better Viewing Angel, Better Comparison)



Butterfly Clasp Signal Cable Connection



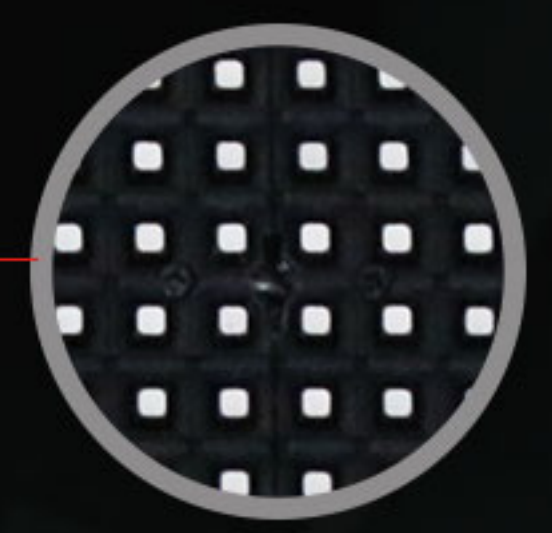
High Quality Insulation Material

Water-proof cable plug

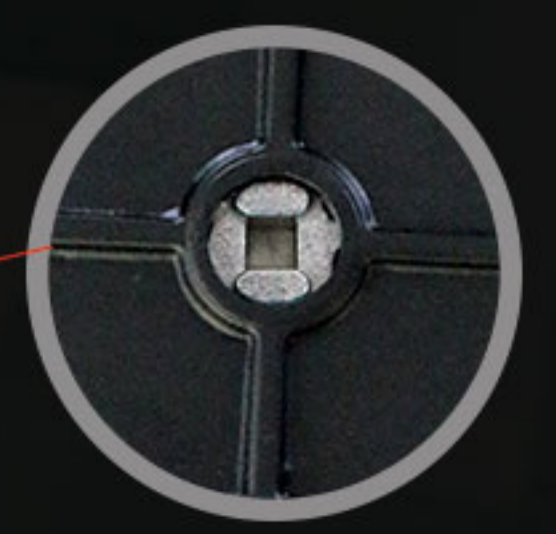
O type Power Cable Connection



Maintenance Tool

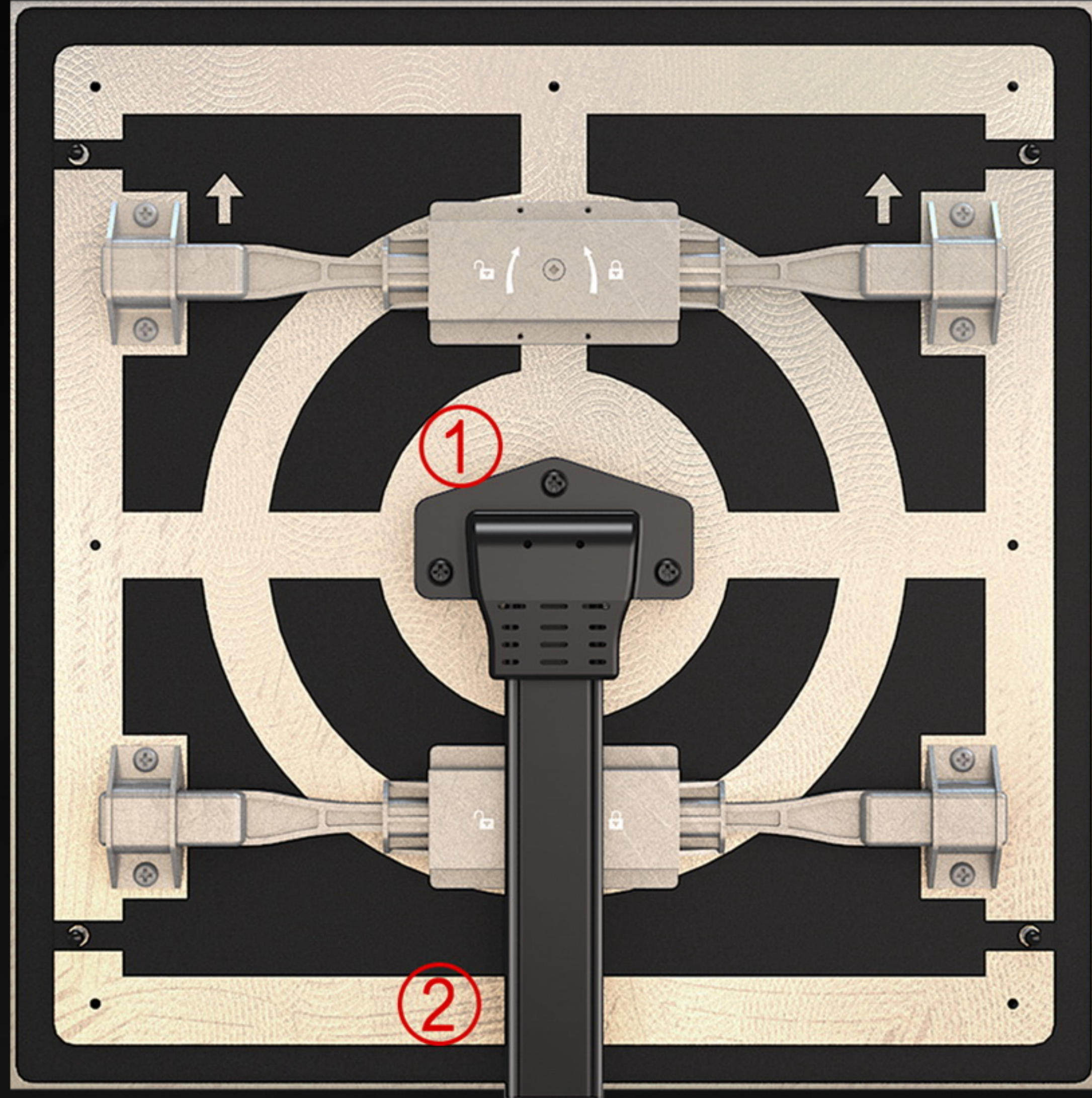


Front Unlock

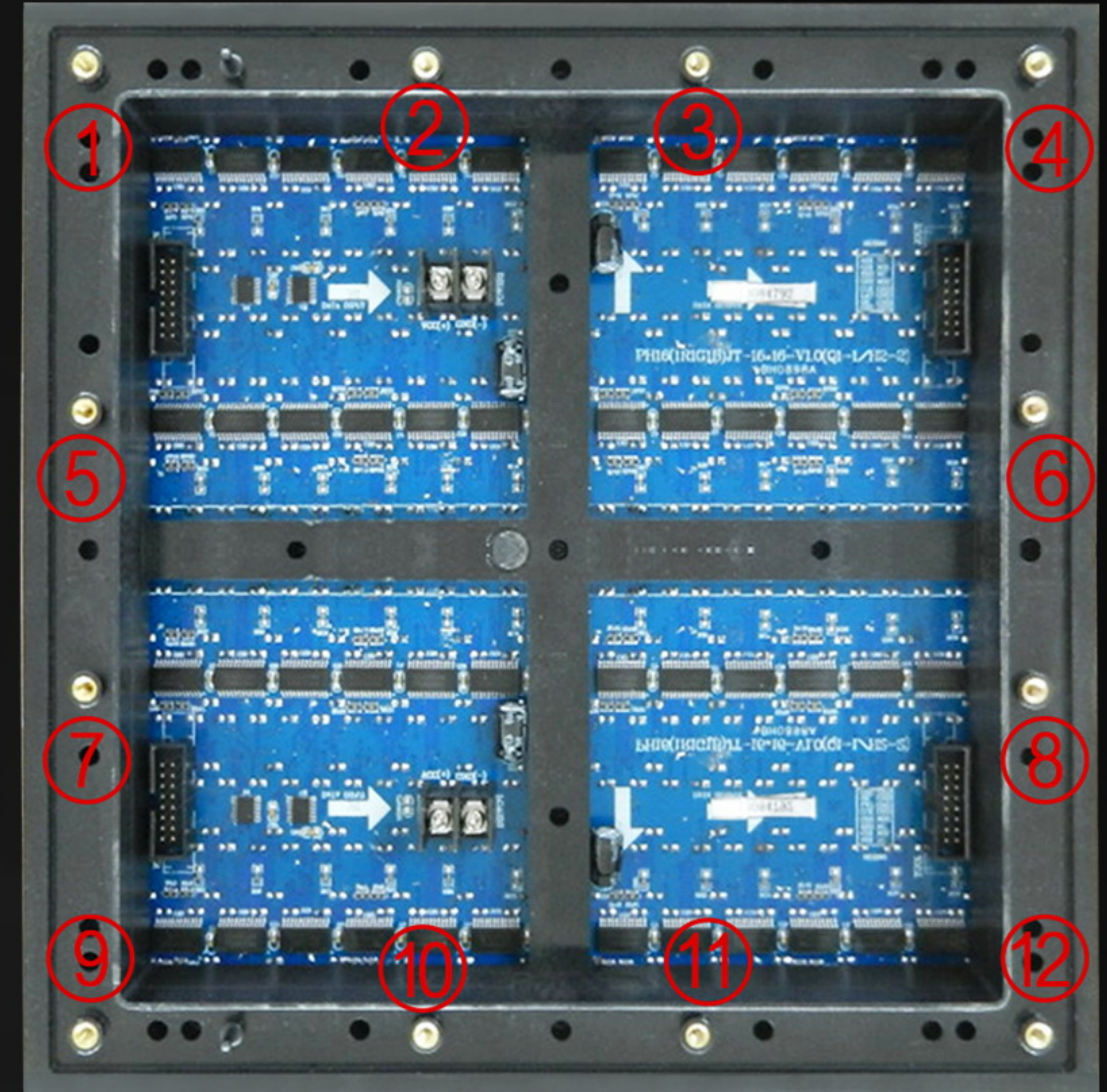


Galvanized Unlock

Module Contrast



Aluminum Substrate



Plastic Substrate

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1. Conventional product need use many screws when to install or maintain, which would take a lot of time. While aluminum substrate is to adopt edge lock without screwing design, just need two steps to complete installation or maintenance.
2. Conventional product is uncovered components. While aluminum substrate is to adopt full sealed pack protection design, to protect its inner components.
3. Conventional plastic product has low heat conductivity, it would release polyvinyl chloride which is poisonous substance when working at high temperature circumstance, and its recycle ratio is just 1%. While aluminum substrate has a great heat conductivity, perfect performance for heat-dissipation, it doesn't release any poisonous substance, recycle ratio is up to 85%.

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Aluminum Property



Heat Conductivity: 237W/MK

Melting Point: 660Wdegree

Strong Capacity: 390-420MPA

Recycle Ratio: 85%

Substance Release: None

Plastic Property



Heat Conductivity: 0.02-0.04W/MK

Melting Point: 170Wdegree

Strong Capacity: 30-50MPA

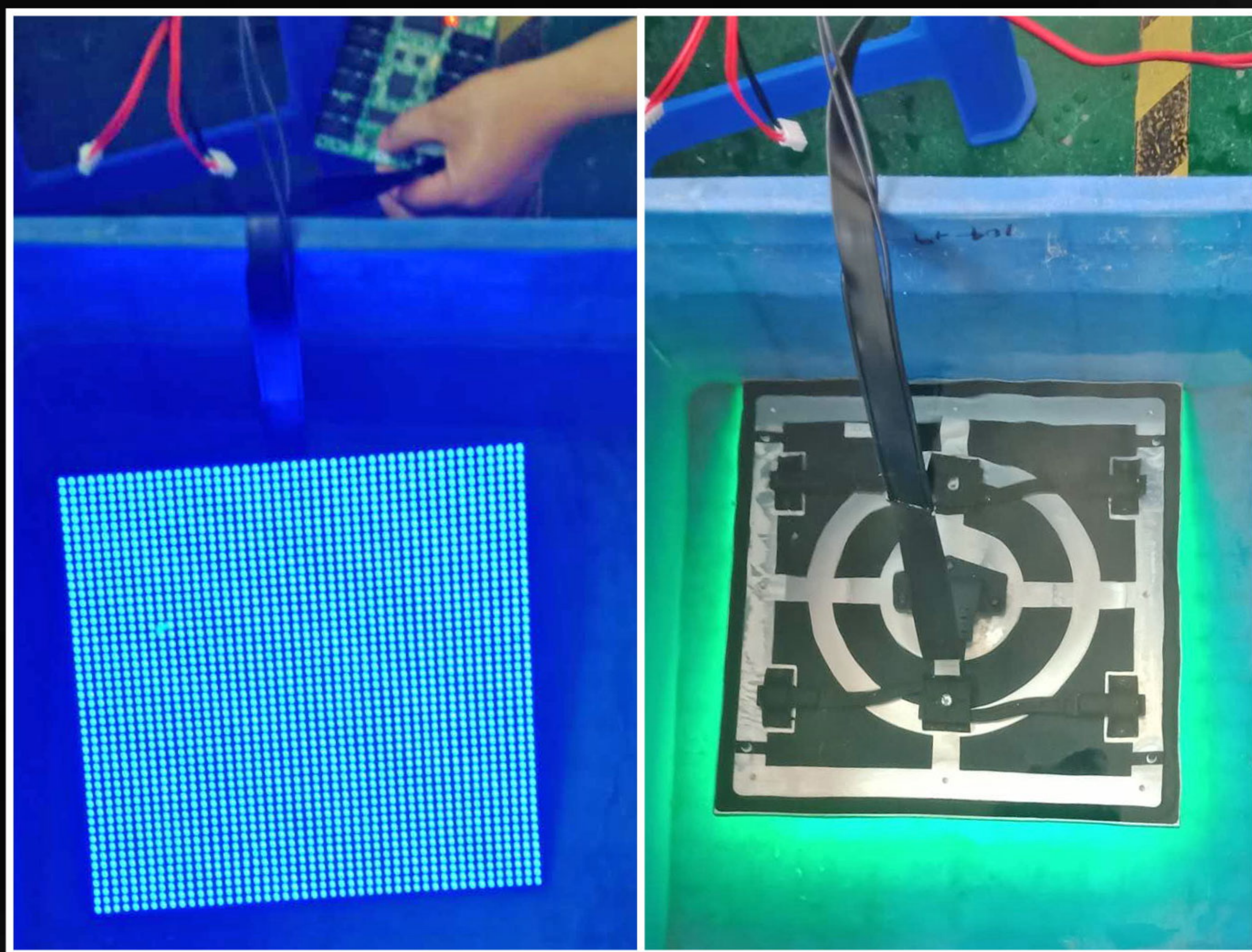
Recycle Ratio: 1%

Substance Release: Polyvinyl Chloride

Waterproof effect



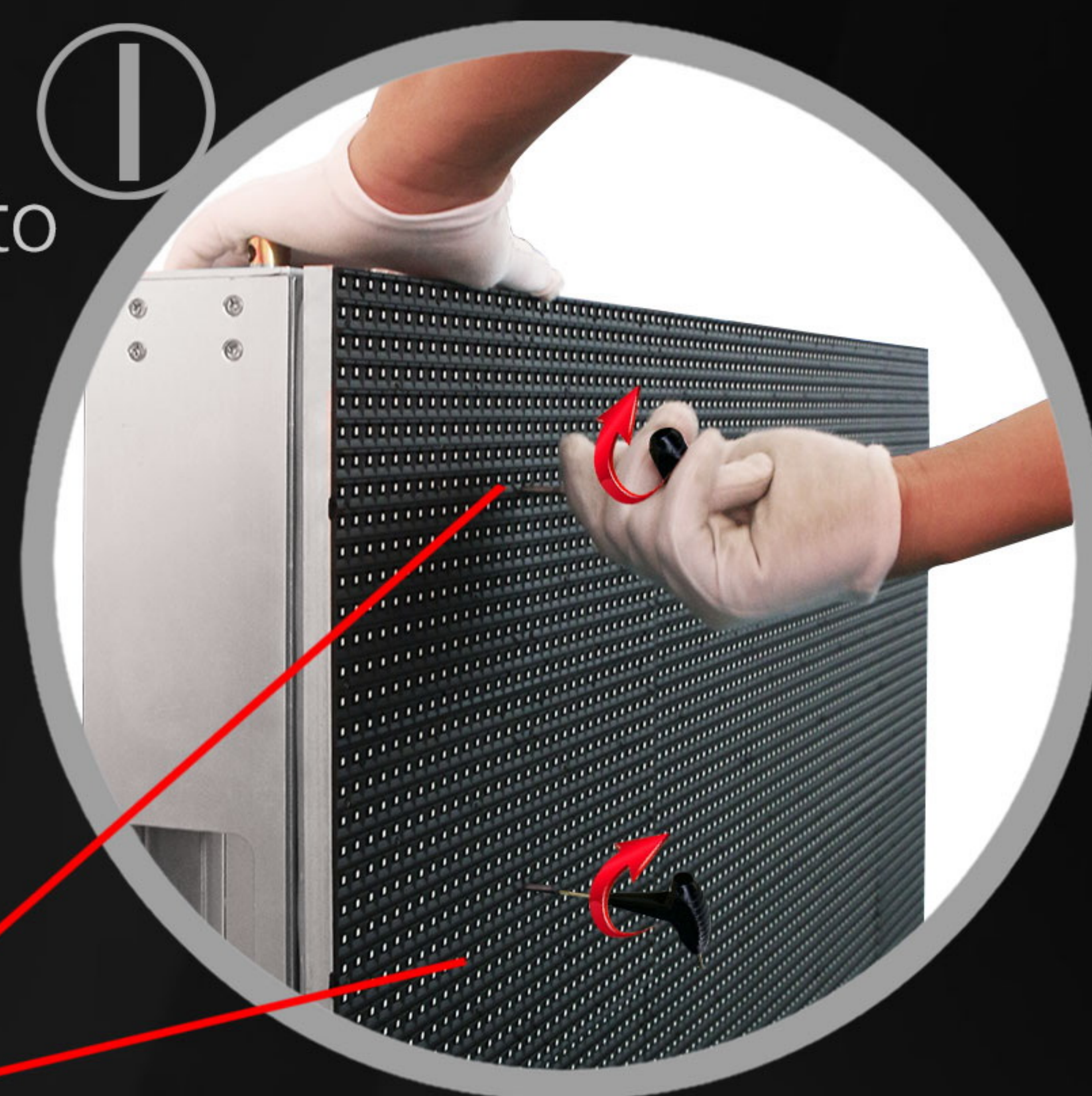
Aluminum substrate is to adopt full sealed pack design, to match 3-in-1 waterproof connector, the lamp-leg is to double glue infusing technology.



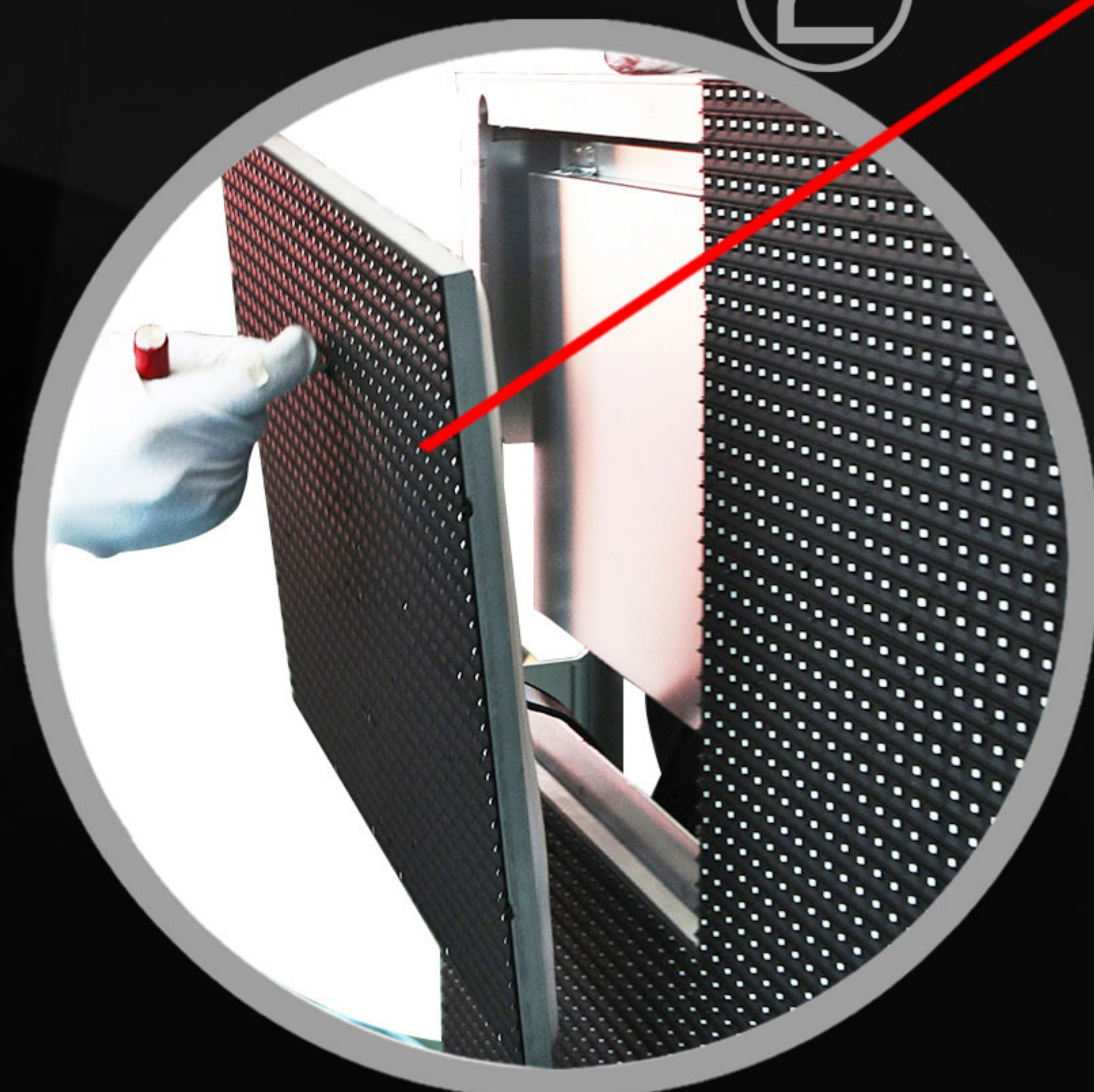
Waterproof testing

Front Maintenance

Insert upper and down unlock equipment into the hole of front maintenance, twist 90° as the left direction.



②

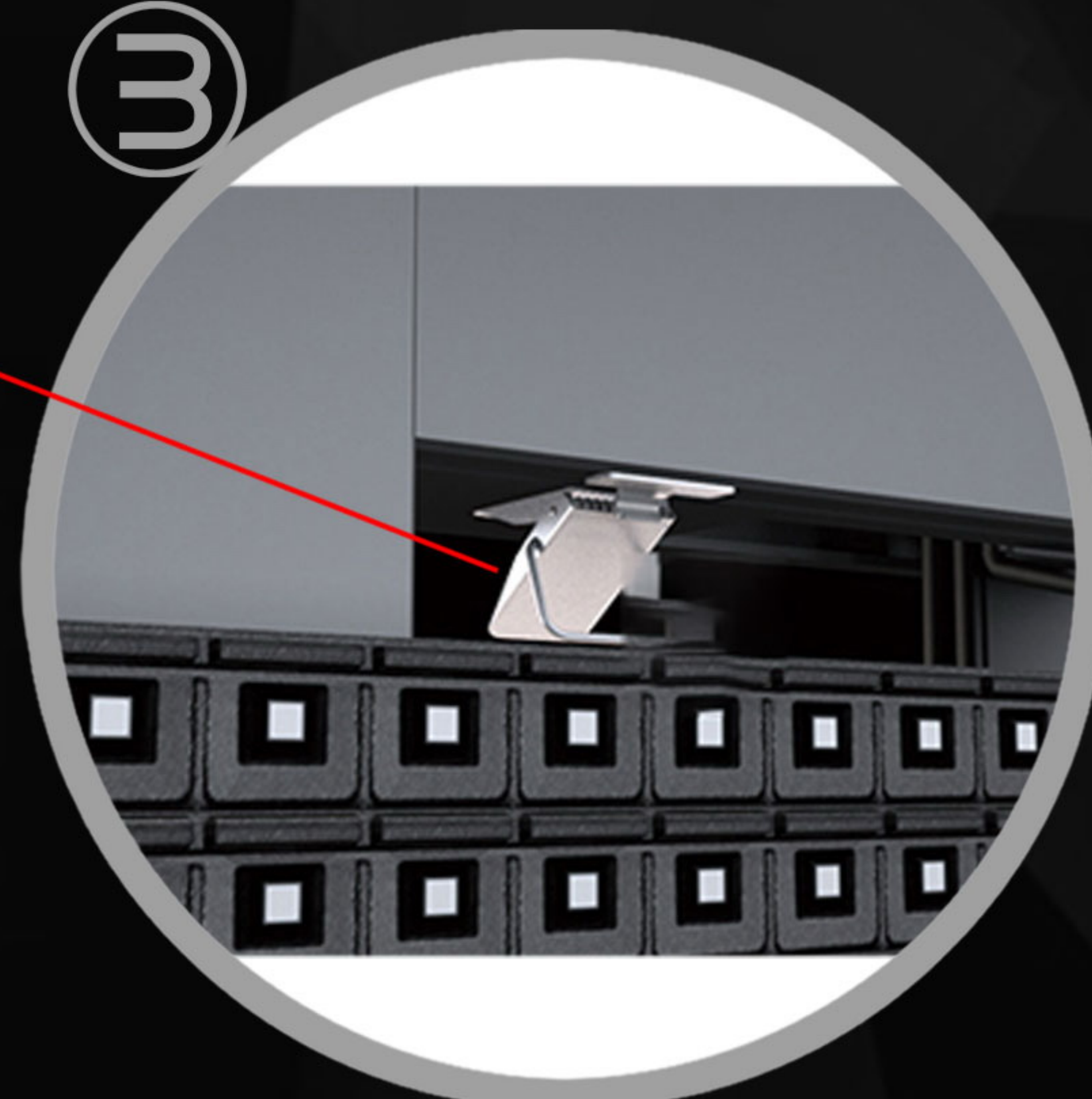


Use T-type equipment to take off the module.

③

Lock Catch

Use your hand to open the lock catch of power box



④

Lid of Power Box

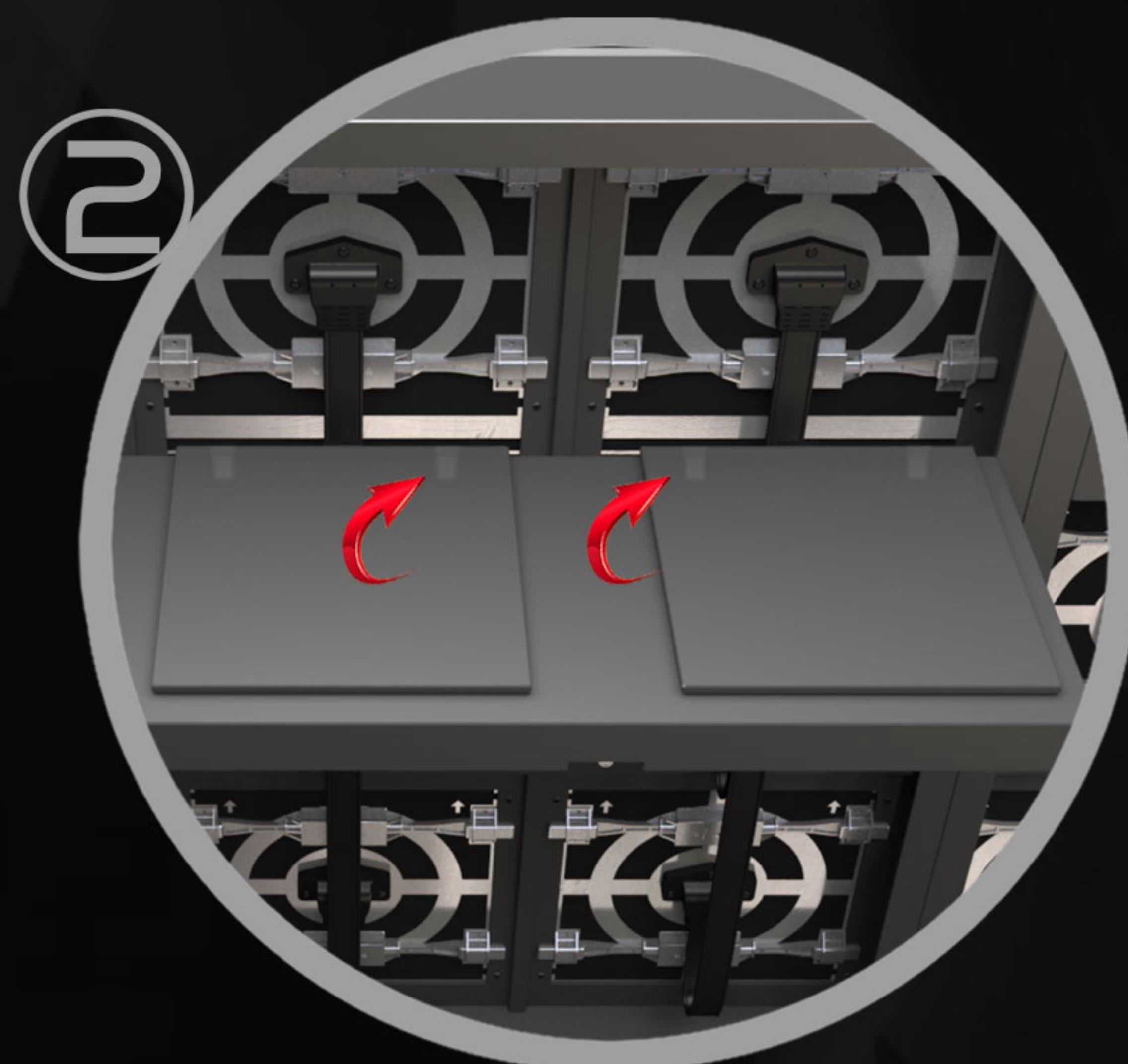
The inner components of power box can be maintained after unlocking.



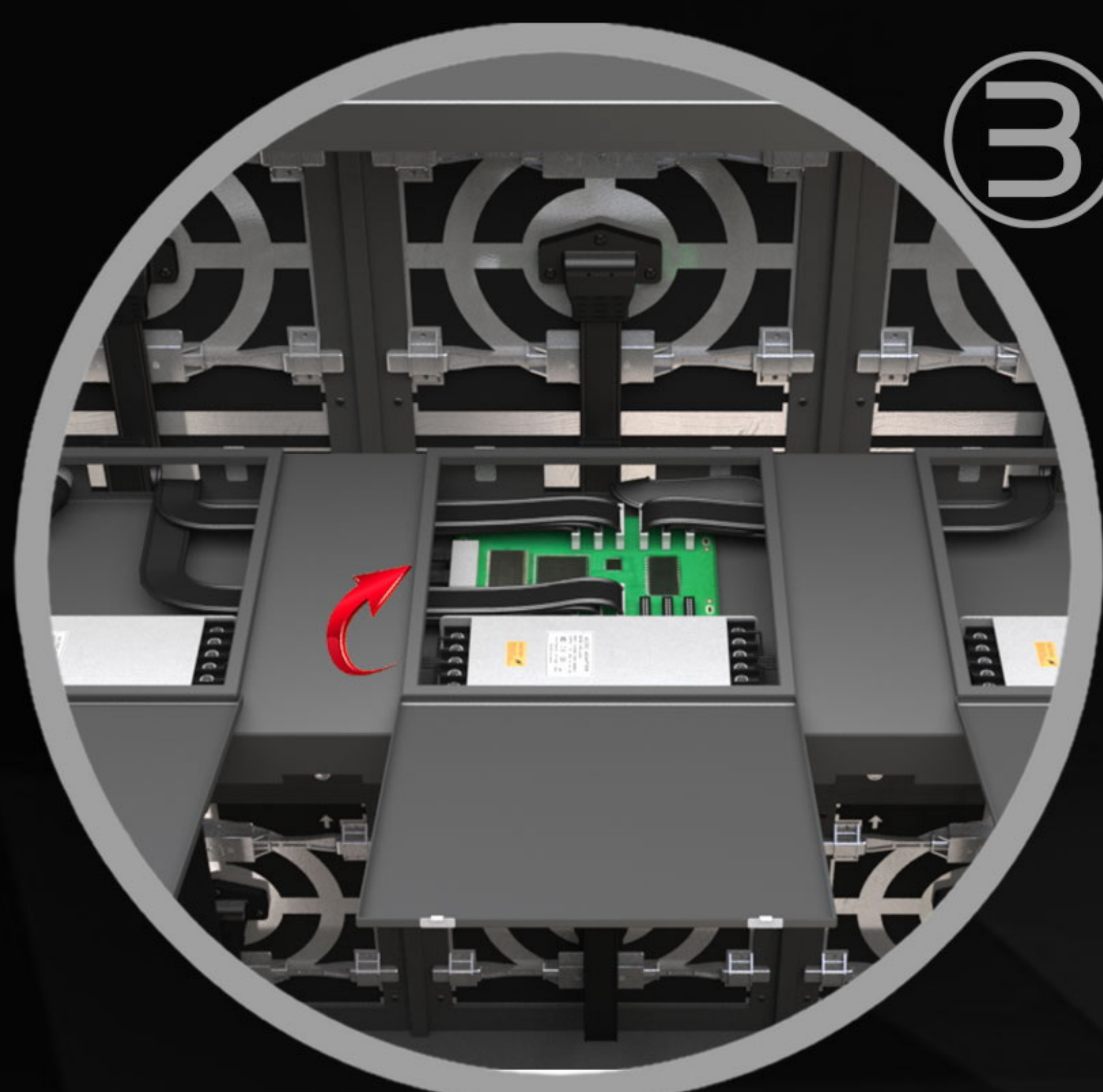
Rear Maintenance



Open the fast lock of exterior power box



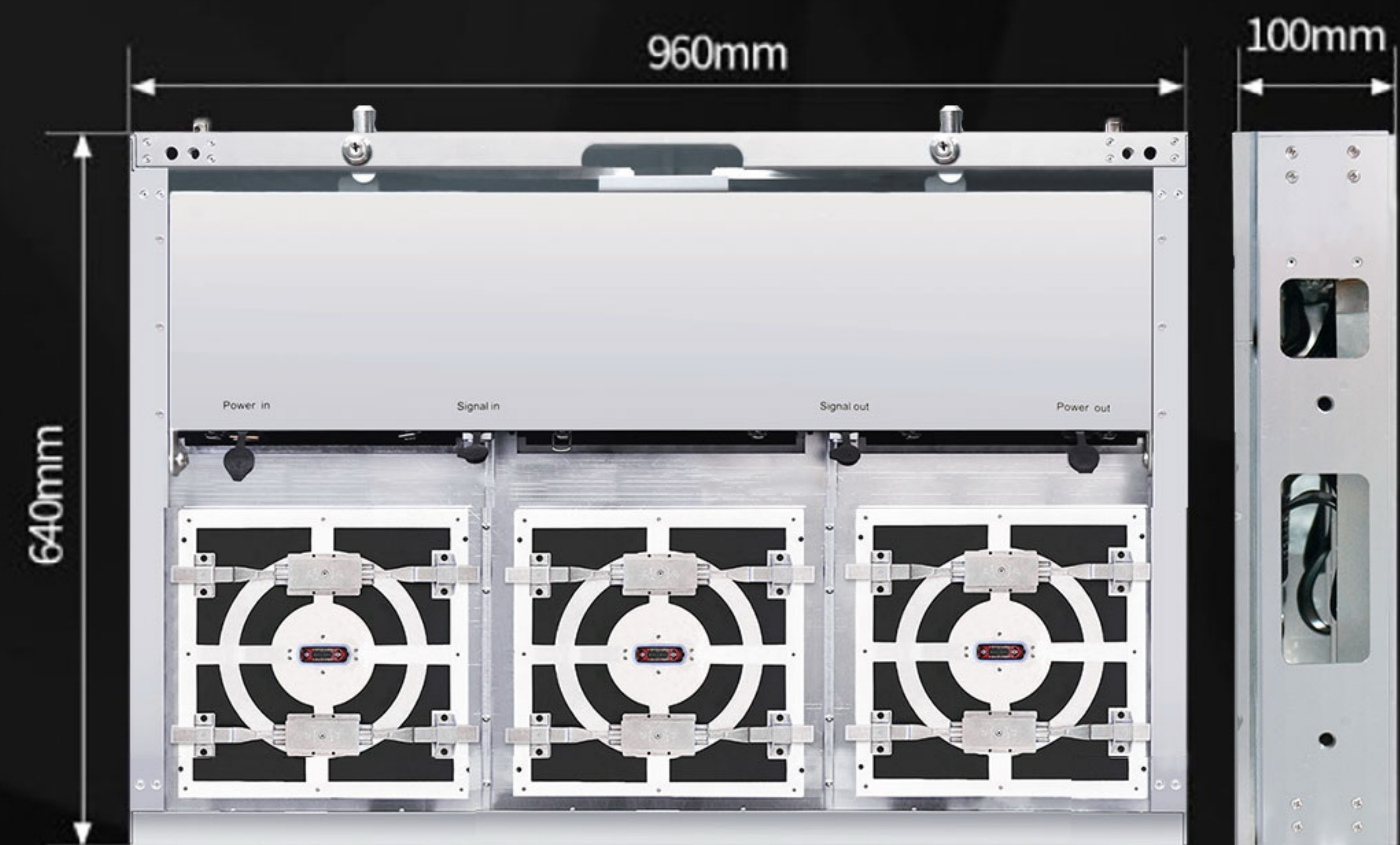
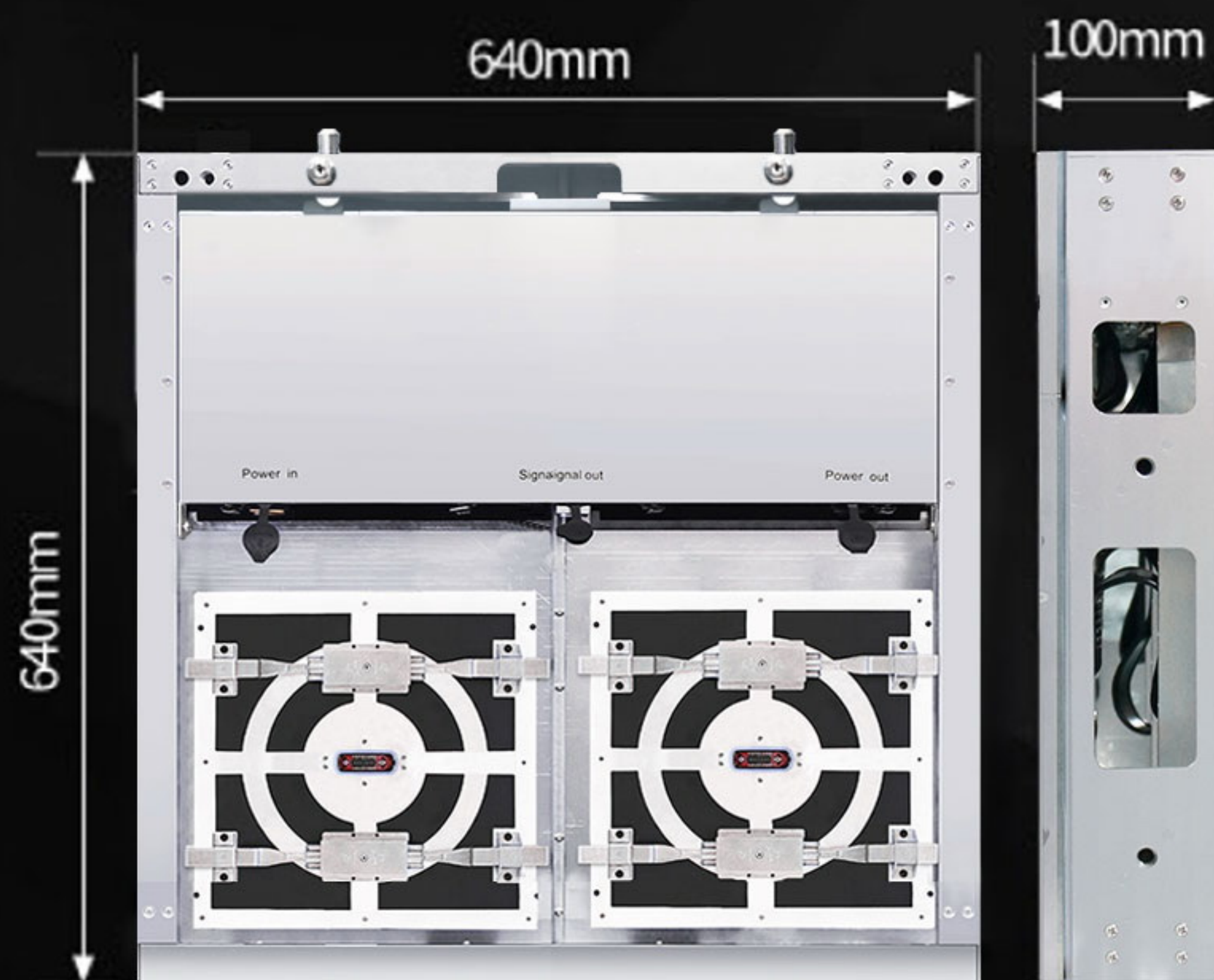
Open the lock catch of interior power box



To maintain the inner components of power box

Products Dimension

There are four dimensions of box, being convenient for clients to joint LED displays, wireless connection. The modules can be used for different dimensions of box, and the boxes can be in common use for different pixel pitch products, which provides clients more options.



Ordinary Standard Configuration

Pixel Pitch	6.67mm	8mm	10mm
Lamp Type	SMD2727	SMD2727	SMD2727
Scan mode	1/6	1/5	1/2
Dots/m ²	22477	15625	10000
Module Size(mm)	320*320	320*320	320*320
Module Resolution	48*48	40*40	32*32
Max Power	850W/m ²	750W/m ²	900W/m ²
A.V Power	285W/m ²	250W/m ²	300W/m ²
Brightness	5000cd/m ²	4900cd/m ²	6000cd/m ²
Cabinet Size(mm) W*H*T	960*960*100mm (Can be Customized)		
Viewing Angel	≥140° (Vertical) , ≥120° (Horizontal)		
Refresh Rate	≥1920Hz		
Gray Grade	It is available within 65536 grade at random		
IP Grade	IP66/ IP68		
Maintenance way	Front and rear		
Authentication	BIS、 PSE、 FCC、 CE、 UL、 CB		

Common Cathode Ordinary Configuration

Pixel Pitch	6.67mm	8mm	10mm
Lamp Type	SMD2727	SMD2727	SMD2727
Scan mode	1/6	1/5	1/2
Dots/m ²	22477	15625	10000
Module Size(mm)	320*320	320*320	320*320
Module Resolution	48*48	40*40	32*32
Max Power	550W/m ²	500W/m ²	550W/m ²
A.V Power	185W/m ²	168W/m ²	185W/m ²
Brightness	>5500cd/m ²	>5000cd/m ²	>6500cd/m ²
Cabinet Size(mm) W*H*T	960*960*100 (Can be Customized)		
Viewing Angel	≥140° (Vertical) , ≥120° (Horizontal)		
Refresh Rate	≥3840 Hz		
Gray Grade	It is available within 65536 grade at random		
IP Grade	P66/IP68		
Maintenance way	Front and rear		
Authentication	EMC、BIS、PSE、FCC、CE、UL、CB		

Common Cathode Superior Configuration-1

Pixel Pitch	6.67mm	8mm	10mm
Lamp Type	SMD2727	SMD2727	SMD2727
Scan mode	1/6	1/5	1/2
Dots/m ²	22477	15625	10000
Module Size(mm)	320*320	320*320	320*320
Module Resolution	48*48	40*40	32*32
Max Power	350W/m ²	300W/m ²	350W/m ²
A.V Power	118W/m ²	100W/m ²	118W/m ²
Brightness	>5500cd/m ²	>5000cd/m ²	>6500cd/m ²
Cabinet Size(mm) W*H*T	960*960*100 (Can be Customized)		
Viewing Angel	≥140° (Vertical) , ≥120° (Horizontal)		
Refresh Rate	≥3840 Hz		
Gray Grade	It is available within 65536 grade at random		
IP Grade	P66/IP68		
Maintenance way	Front and rear		
Authentication	EMC、BIS、PSE、FCC、CE、UL、CB		

Common Cathode Superior Configuration-2

Pixel Pitch	6.67mm	8mm	10mm
Lamp Type	SMD2727	SMD2727	SMD2727
Scan mode	1/6	1/5	1/2
Dots/m ²	22477	15625	10000
Module Size(mm)	320*320	320*320	320*320
Module Resolution	48*48	40*40	32*32
Max Power	550W/m ²	500W/m ²	550W/m ²
A.V Power	185W/m ²	168W/m ²	185W/m ²
Brightness	>9500cd/m ²	>7500cd/m ²	>9500cd/m ²
Cabinet Size(mm) W*H*T	960*960*100 (Can be Customized)		
Viewing Angel	≥140° (Vertical) , ≥120° (Horizontal)		
Refresh Rate	≥3840 Hz		
Gray Grade	It is available within 65536 grade at random		
IP Grade	P66/IP68		
Maintenance way	Front and rear		
Authentication	EMC、BIS、PSE、FCC、CE、UL、CB		

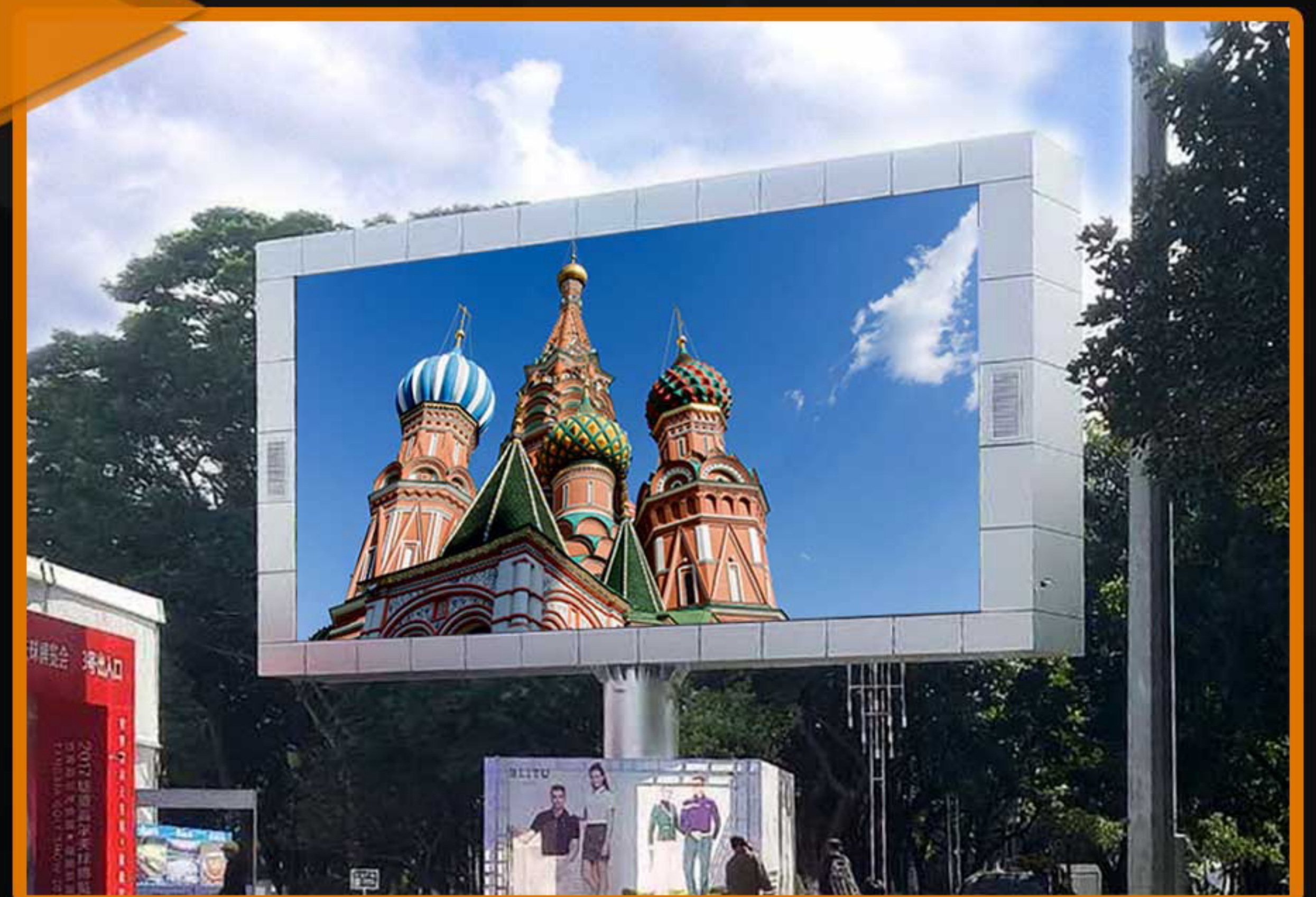
Applications of Municipal Projects



Project for Entrance of National High-Tech Zone in Hainan 99.53 m²



Neighborhood Committee in ZhuangMu Town, Anhui 26 m²



Project in ZhuanTang Community, Huainan 83 m²



ShenZhen Airport 300 m²



The West Passenger Station of Jinan 230 m²

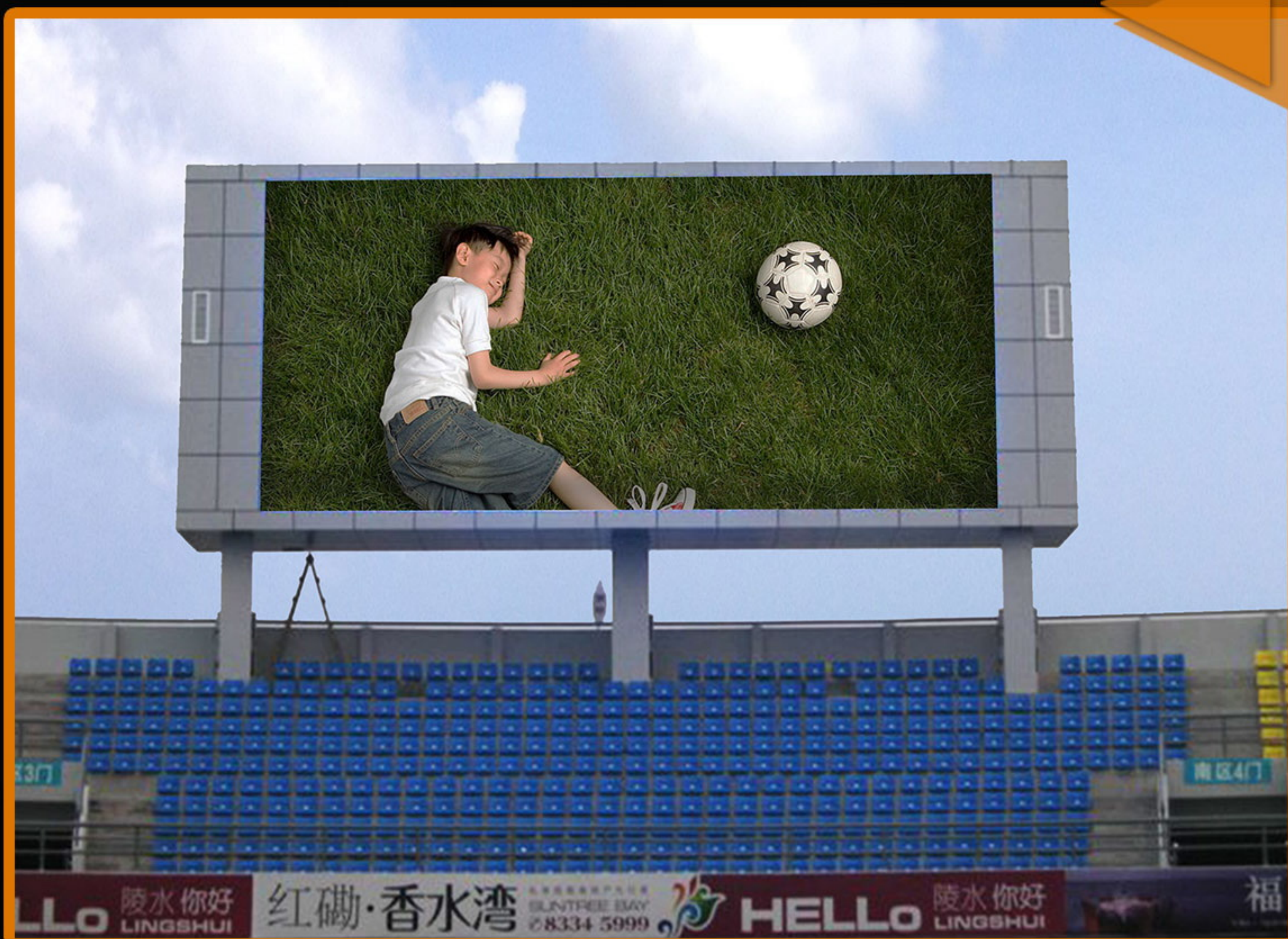
Applications for Gymnasium



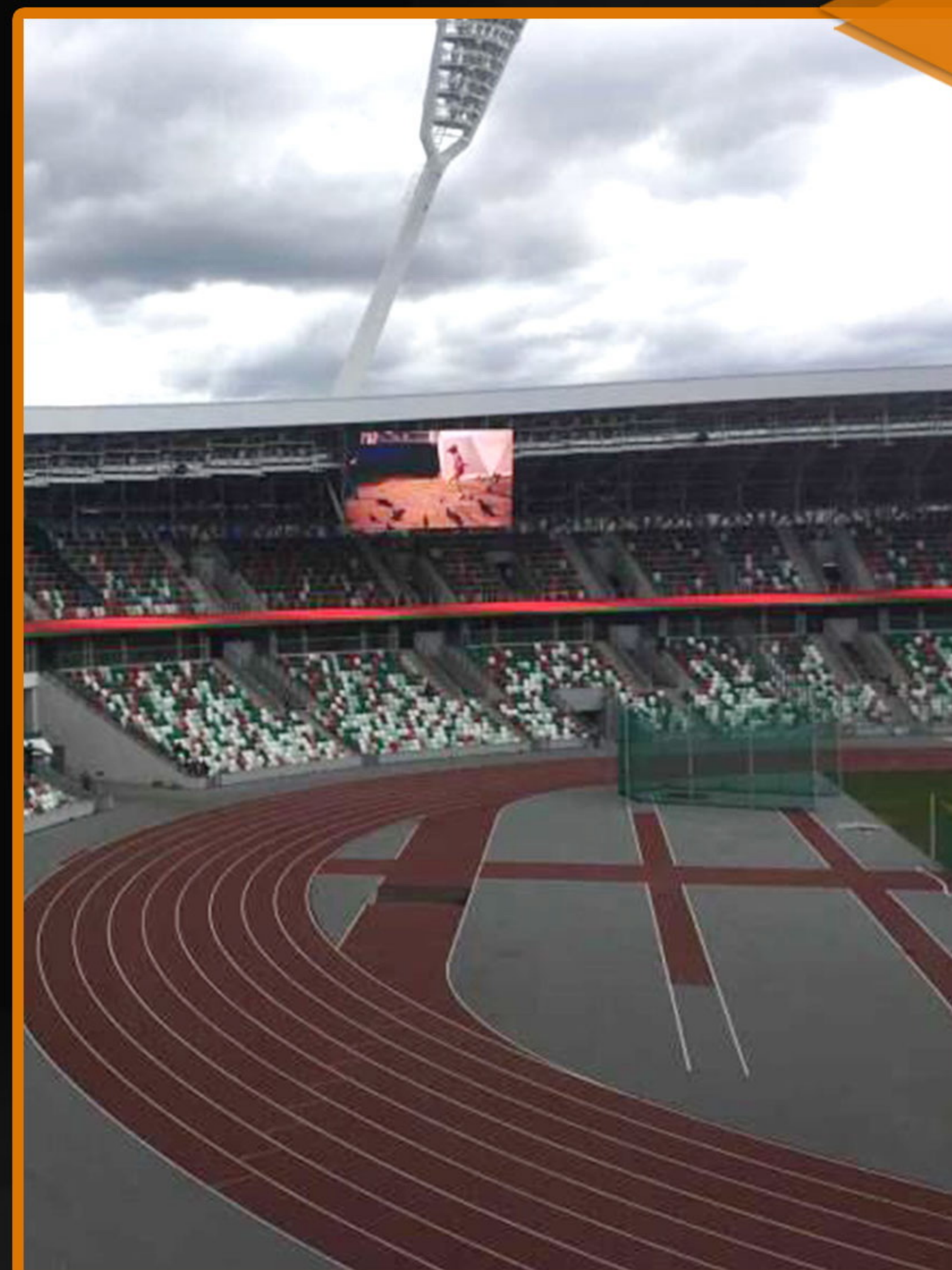
DingXi Stadium, DingXi municipal sports bureau, Gansu 146.8 m²



Dalian Municipal Stadium, Liaoning 309 m²



Stadium in Lishui Province, Hainan 268 m²



Stadium in Belarus 864 m²

Applications for Advertising Media



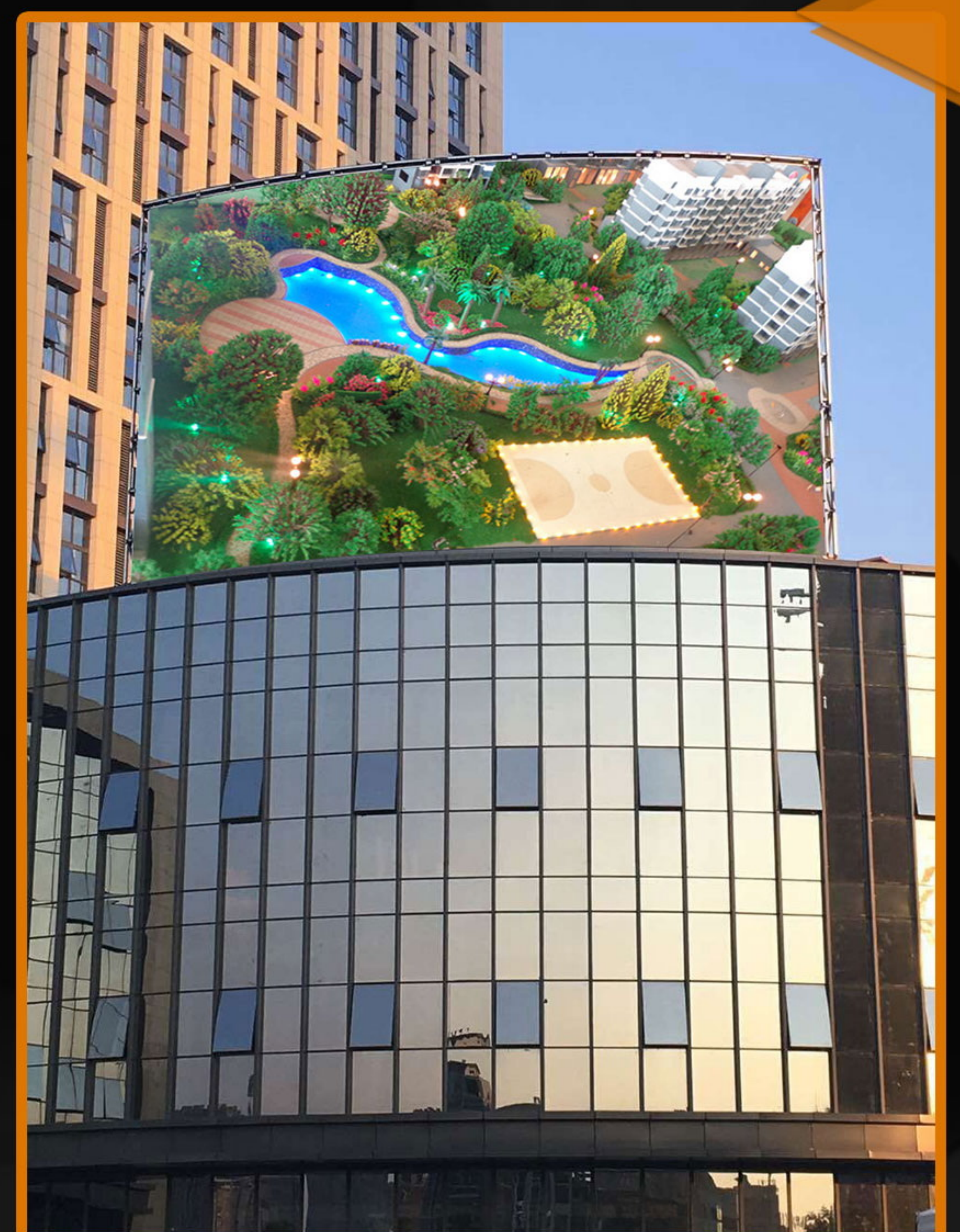
ShuiBei Jewellery Building in Luohu, Shenzhen 109.67 m²



WanJia Shopping Plaza in Suzhou city, Anhui 86 m²



WanDa Plaza in Meizhou 98 m²



Yihe City Square, Fuyang city, Anhui 138 m²

Applications for Traffic Guidance



Traffic Guidance Display 4 m²



Display for Pedestrian Traffic Violation in Fengnan district, Tangshan 91 m²



Fully Colorful Display in the turntable of Anyue station 60 m²



Traffic Guidance Display in Dazhu 6 m²

Applications for Lamp-Pole Display



Lamp-Pole display in Pakistan 4 m²



Lamp-Pole Display in Jiangsu 224 m²



Lamp-Pole Display in Gansu 192 m²



Lamp-Pole Display in HongKong 6 m²

Applications for Dual Display Advertising Machine

740*1805*700mm



1060*2446*700mm



1380*2766*800mm



It can meet different properties of occasions and environments, to make the item of LED display outstanding, it has become more and more consumers' preference.