



Leyard ALF-S Series
Aluminum Light Floor LED display

Naming Rule

Series	Family	LED Polarity Blank=CA,C=CC,	PSU	Ver.
AL=AluminumLight	F=Floor	Blank=CA Common Anode; C=CC Common Cathode	Blank=Single D=Dual	Sxx

Series	Family	Pitch	LED Polarity Blank=CA,C=CC,	PSU	Ver.	Example Model
AL	F	1.5			S1	ALF1.5-S1
AL	F	1.9			S1	ALF1.9-S1
AL	F	2.6			S1	ALF2.6-S1

Revise Record

NO.	Revise Content	Person	Date
1		Tech Apt	2023. 10
2	Correct name and spec.	Tech Apt	2024. 06
3	Adjust the length of the edge anchor screw	Tech Apt	2025. 02
4			
5			
6			

Description

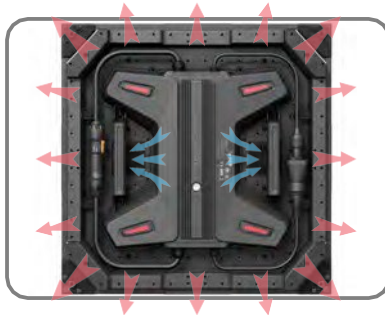
The ALF-S is a new design LED floor with high performance and better competitive cost. It adopts enhanced aluminum structure, with stronger compression resistance, and cooperates with elastomer buffer structure to reduce vibration and impact noise. Meanwhile, it integrates edge protection to effectively protect edge LEDs collision. The design of double air ducts+high efficiency heat dissipation strip greatly improve the heat dissipation and keep system stable.

This ALF-S LED floor has the design of fast paving and front maintenance. It can be optional with dual power supply and dual signal for redundancy. It is modular design, efficient and reliable, and easy to maintain. In terms of display effect, it adopts a better grayscale chip, high refresh rate, and the maximum frame rate is 240Hz. The surface uses black crystal matte technology, which weakens the high reflection. With high contrast, it is created for VR vision. It is an important role in building an immersive image, and is very suitable for applications such as performing stage ,studio and television station.

Functional Features

main features

1. Created for virtual shooting, the gray scale is up to 16bit, the maximum frame rate is 240Hz, which is an important choice for building immersive display.
2. Shutter synchronization technology and 1 frame ultra-low delay.
3. It supports stepless adjustment of color temperature to match the lighting environment of the studio and XR working station.
4. The standard BT709 DCI-P3 color gamut is supported.
5. Full gray scale correction technology makes the transition of display screen more delicate and smooth.
6. Real-time dynamic engine technology can process SDR source into HDR display effect.
7. Product design is sturdy, high strength, compression resistance and impact protection;
8. High precision positioning enable seamless splicing easy. With elastic cushioning rubber pieces, they reduce vibration and impact noise.
9. Dual power supply and dual signal redundancy can be optional to improve system stability;
10. Double air ducts+high efficiency cooling design ensure the heat dissipation.



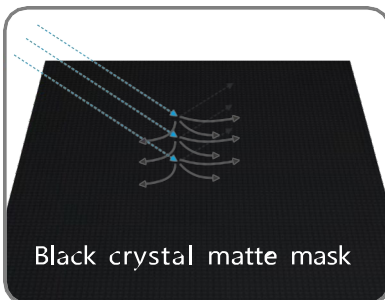
Aluminum Easy Cooling

Aluminum alloy;
Active cooling design;
Stable and safe.



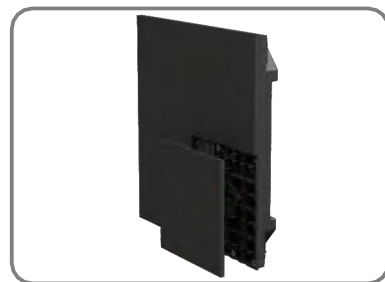
Redundancy Signal&Power

Hot backup;
Dual PSU and signal;
Perfect reliability;



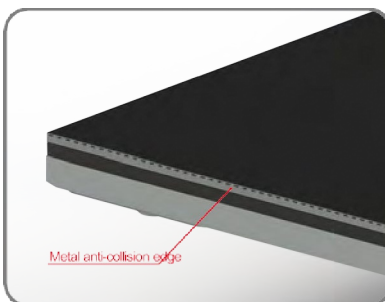
High contrast

Black crystal matte mask technology;
Reduce reflection;
High quality image;



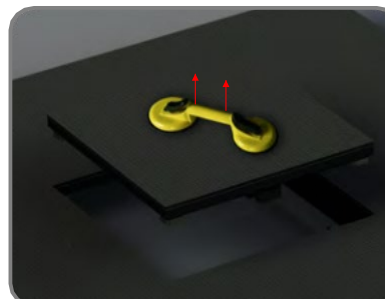
Modular design Easy maintenance

Fast swapping.



Edge protection

Metal frame is added around the PCB board to truly prevent collision.



Front service

Lift single cabinet easy!

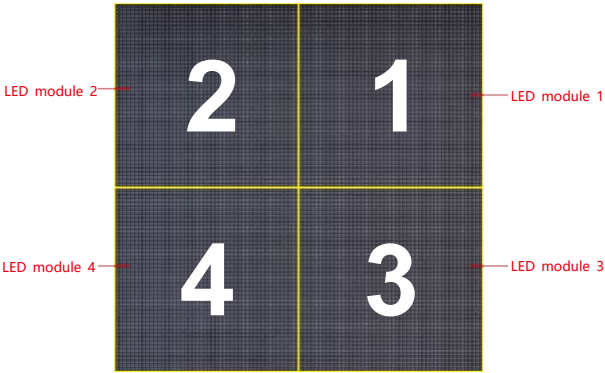


High bearing pressure

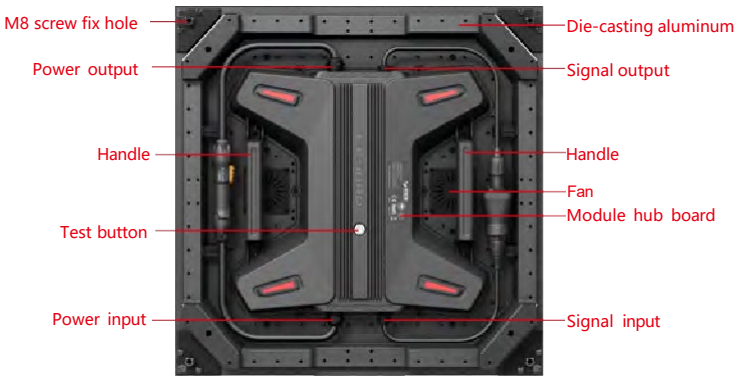
2000kg/m² load-bearing is capable.

Appearance Description.....

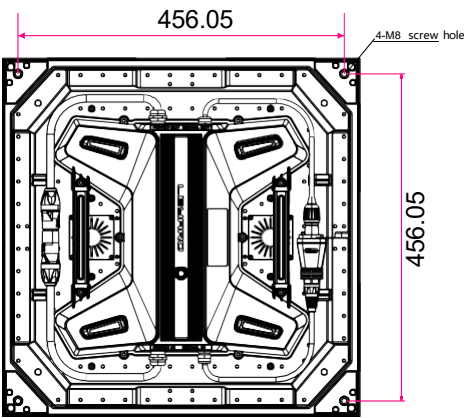
LED modules



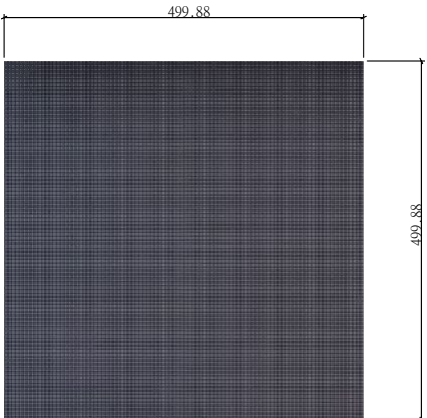
Front view



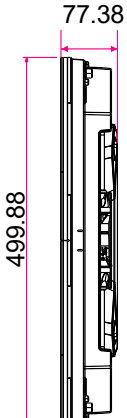
Back view



Back side

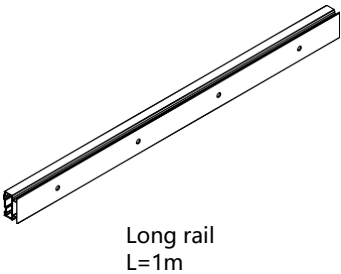
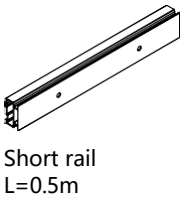
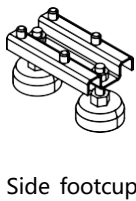
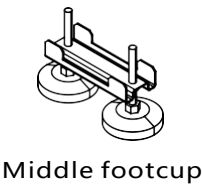
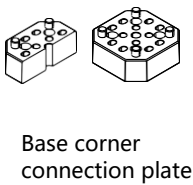


Front side

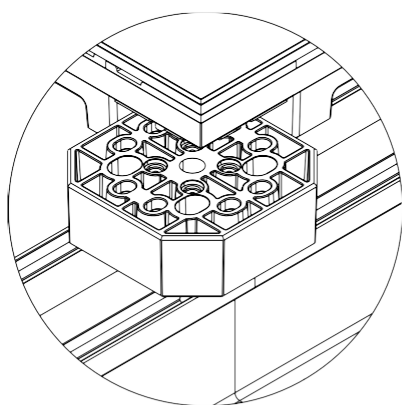
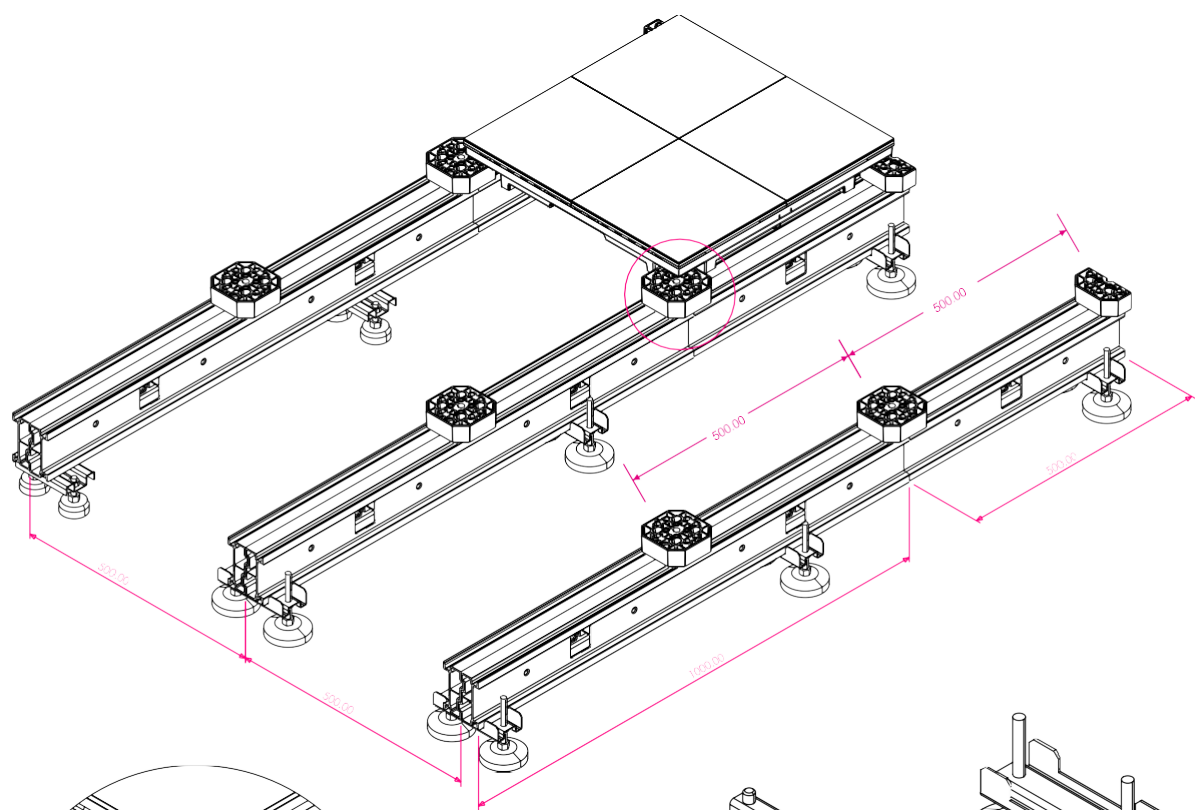


Side

Installation Accessories



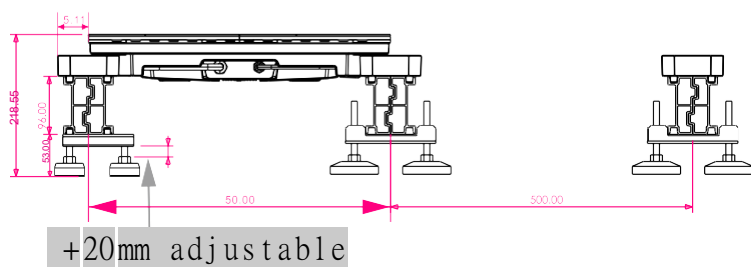
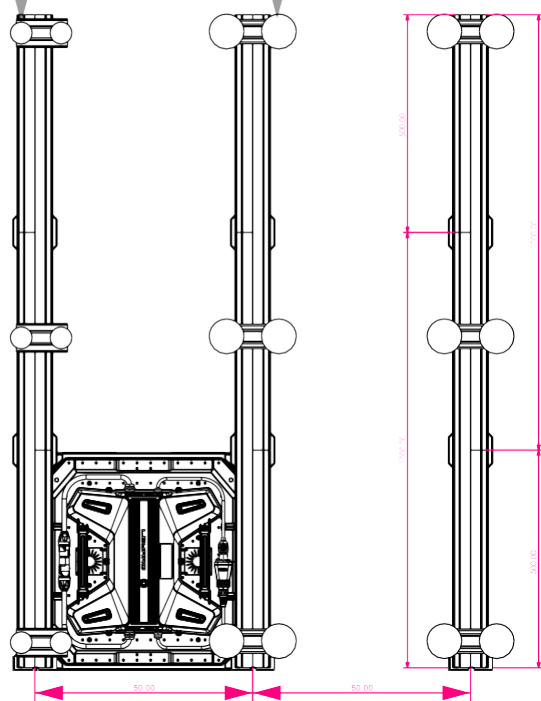
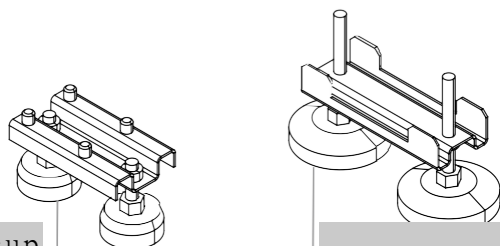
Installation.....



Area A
Scale 1:2

Side footcup

Middle footcup



Specification

ALF1.5-S1 Series

Model	ALF1.5-S1
LED Type	SMD1212
Pixel Pitch(mm)	1.56
Pixel Density/m²	409600
Panel Resolution (pixels)	320x320
Panel Size (W x H x D/mm)	500 x 500 x 74
Power Supply	Single PSU
Panel Weight (kg/panel)	11kg
Module Quantity / cabinet	4pcs
Module Size(WxH/mm)	250x250mm
Weight/module(kg)	0.5
Brightness Max (cd/m²)	700
Color Temp (Calibrated)	Std:6500K
Color Temp Range	3000-9000K
Contrast Ratio	3000:1
Viewing Angle(deg)	H140/V140 deg
Grey Scale	14bit
Refresh Rate	≥3840Hz
Frame Frequency	50/60Hz
Scan Rate	1/32
Working Voltage	100-240V AC, 50/60Hz
Power Maximum (W/m²)	800
Power Avg (W/m²)	270
Operating Temp/Humidity	-20 to 40°C 10%-90%
Storage Temp/Humidity	-35 to 60°C 10%-85%
Cabinet Structure Material	Aluminum Dolly
IP Protection	IP40
Service Ability	Front
Vertical Weight Capacity(Kg)	2000kg /m²
Application Mode	Fix, Rental
Installation Mode	LED Floor
Lifetime(H)	100000

ALF1.9-S1 Series

Type	ALF1.9-S1
LED Type	SMD1212
Pixel Pitch(mm)	1.95
Pixel Density/m²	262144
Panel Resolution (pixels)	256x256
Panel Size (W x H x D/mm)	500 x 500 x 78
Power Supply	Single PSU
Panel Weight (kg/panel)	11kg
Module Quantity / cabinet	4pcs
Module Size(WxH/mm)	250x250mm
Weight/module(kg)	0.5
Brightness Max (cd/m²)	700
Color Temp (Calibrated)	Std:6500K
Color Temp Range	3000-9000K
Contrast Ratio	3000:1
Viewing Angle(deg)	H140/V140 deg
Grey Scale	16bit
Refresh Rate	≥3840Hz
Frame Frequency	50/60Hz
Scan Rate	1/16
Working Voltage	100-240V AC, 50/60Hz
Power Maximum (W/m²)	800
Power Avg (W/m²)	270
Operating Temp/Humidity	-20 to 40°C 10%-90%
Storage Temp/Humidity	-35 to 60°C 10%-85%
Cabinet Structure Material	Aluminum dolly
IP Protection	IP40
Service Ability	Front
Vertical Weight Capacity(Kg)	2000kg /m²
Application Mode	Fix, Rental
Installation Mode	LED floor
Lifetime(H)	100000

ALF2.6-S1 Series

Type	ALF2.6-S1
LED Type	SMD1212
Pixel Pitch(mm)	2.60
Pixel Density/m²	147456
Panel Resolution (pixels)	192x192
Panel Size (W x H x D/mm)	500 x 500 x 78
Power Supply	Single PSU
Panel Weight (kg/panel)	11kg
Module Quantity / cabinet	4pcs
Module Size(WxH/mm)	250x250mm
Weight/module(kg)	0.5
Brightness Max (cd/m²)	700
Color Temp (Calibrated)	Std:6500K
Color Temp Range	3000-9000K
Contrast Ratio	3000:1
Viewing Angle(deg)	H140/V140 deg
Grey Scale	14bit
Refresh Rate	≥3840Hz
Frame Frequency	50/60Hz
Scan Rate	1/12
Working Voltage	100-240V AC, 50/60Hz
Power Maximum (W/m²)	800
Power Avg (W/m²)	270
Operating Temp/Humidity	-20 to 40°C 10%-90%
Storage Temp/Humidity	-35 to 60°C 10%-85%
Cabinet Structure Material	Aluminum Dolly
IP Protection	IP40
Service Ability	Front
Vertical Weight Capacity (Kg)	2000kg /m²
Application Mode	Fix, Rental
Installation Mode	LED Floor
Lifetime(H)	100000