SX SERIES

SIGNAL HOT BACKUP

EASY ALIGNMENT

MAGNETIC MODULE

BUILT IN DC/DC CONVERTER

LOW POWER STANDBY MODE

INTEGRATED FPGA

CLOUD CONTROLLED LED DISPLAYS

PLEDCO

PRISTINE IMAGERY

SX Series

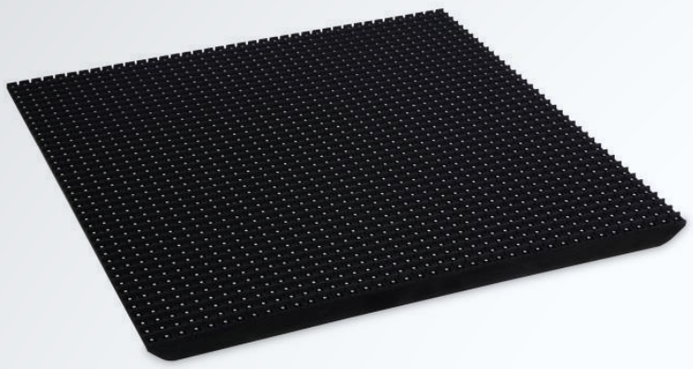
KEY FEATURES AND ADVANTAGES

- IP-Cloud Based Control
- Indoor / Outdoor Fixed Installation
- Front & Rear Access
- IP 66
- Tile Size | 400 x 400 x 68 MM
- Weight | 3KG
- High Brightness | 7500+ nits
- Magnetic Installation

Next Generation
Multi-Media Displays

Engineered by LED display experts, the SX Series'design addresses the challenges and unique benefits of remote powered/controlled LED displays. The architecture uniquely addresses mounting, alignment, space constraints, reliability, fault-tolerance, fast service, power efficiency, scalability and long life, resulting in superior visual performance and value to the customer.

- Scale to any size display by choosing from a range of pixel pitches.
- Front Installation via Magnetic Tool.
- Perfect alignment with our EasyAlign mounting system.
- Patented & in-house developed control system/software.
- Off-board power helps to reduce heat and points of failure.



Remote Monitoring without additional hardware.

Smart monitoring of temperature, humidity, power consumption, automatic brightness control, as well as dead LED detection and alarm function is standard on-board of the SX Series.

Digital proof of play

Digital proof of play based on a secure electronic fingerprint. The image data on pixel level is stored by a trusted third party, and can be retrieved in order to verify what content is displayed on the LED Display at any point in time.

Auto Mapping

Smart sensors in the panel locate the neighboring panels. Intelligent soft and hardware interaction detects the cable arrangements and panel layout.

No Sending box

No dedicated hardware for controlling the system required, each SX Series tile has an integrated smart and standalone controlling function.

Hardware based unique ID for each individual panel.

A unique ID from each tile enables simple tile identification and life time tracking & tracing. Leasing providers benefit from tracking and remote enabling and disabling of the tile.

Remote Firmware upgrade

The controller software allows simple and remote operated firmware upgrades.

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Remote Power & Data Control Room

The SX Series has been specifically designed to allow your LED display to be controlled by both power and data remotely. This innovative concept ensures the main heat source is distant from the LED display itself, and thus improves the overall longevity of your LED display. This is extremely important for high resolution LED Displays as the heat produced has the potential to cause serious effects to the lifetime of the screen.

Front & Rear Maintenance

The clever designed tile structure allows very fast and simple front and rear maintenance.

Combined Power/Data Cables & Connectors

Neater and easier installation by requiring only one cable for power and data transfer.

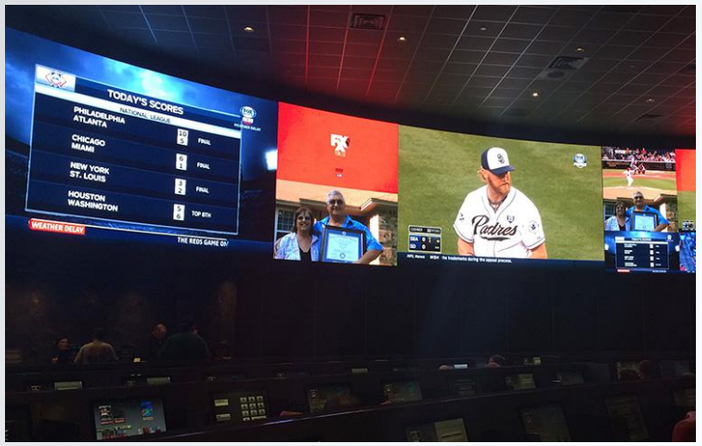
Calibration Data Stored on Every Tile

An ingenious designed LED board stores the calibration data. This method moves away from the traditional way of saving this calibration data on the receiving card, and drastically simplifies the LED tile exchange in case of failure.

Fast & Easy Frame Attachment

A smart designed locking system enables a very easy installation on any frame structured signed by yourself, or offered by one of our installation partners.


Construcción del
Amigotchi
AUDITORIO RAFAEL DEL PINO


TODAY'S SCORES
PHILADELPHIA
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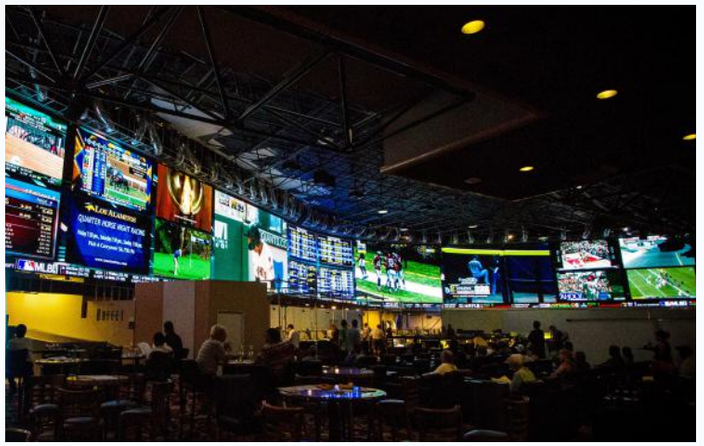
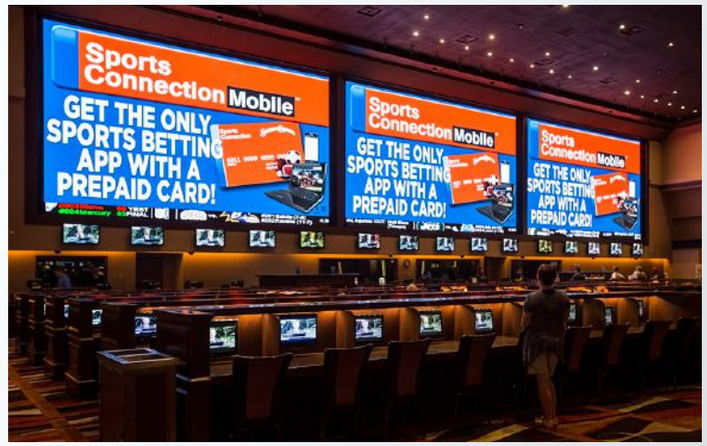
CHICAGO
MIAMI
NEW YORK
ST. LOUIS
HOUSTON
WASHINGTON
FINAL
FINAL
FINAL
TOP 8TH
WEATHER DELAY
THE REDS GAME 01!
Padres

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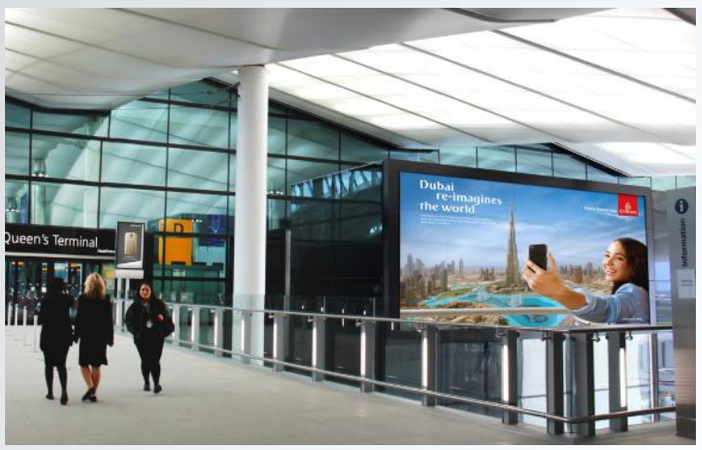
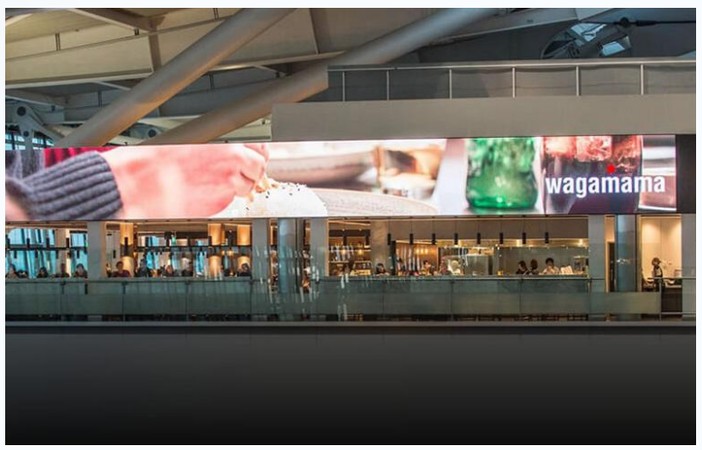
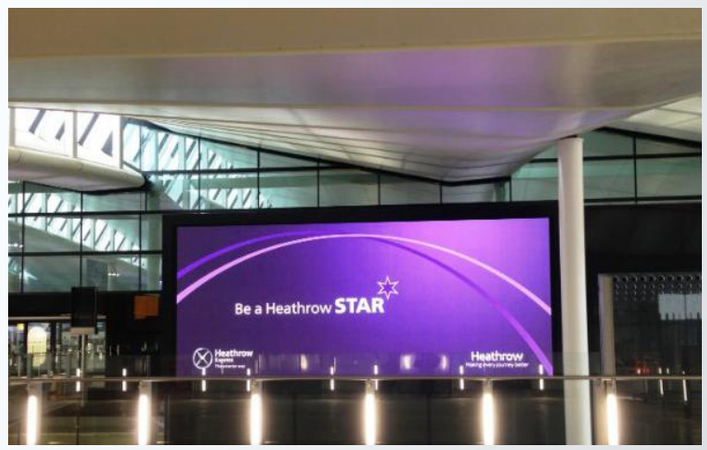

Dubai
re-imagines
the world
Queen's Terminal


wagamama


Be a Heathrow STAR
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PRO
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MIDNIGHT
SALE
70%

PLEDCO HD DISPLAY

Our calibration technology reaches all possible X & Y coordinates ensuring you HD broadcasting experience is crystal clear.

1 COLOR ENHANCING

After calibrating with our Radiant PM-1400F Calibration System in a dark room, the wave length difference for each color will only be less than 0.01nm. Our patented control system allows users to select several different color spaces such as; 2k (REC709), 4K (REC2020) or create your own color space by using our user-friendly software.

2 COLOR COORDINATION PROCESS

The same batch of LED's with discrete distribution are all moved to PAL Mode Chroma Area through color coordinate calibration Technology.

Since each LED batch produced has different coordinates this requires precise color calibration, which in turn allows:

- Allows the LED display to show natural and vivid colors.
- Ensures that all LEDs have been color rendered consistently.

SYSTEM CALIBRATION

All X & Y coordinates are kept in our client project database. When you order new tiles for an existing project we retrieve the original X & Y coordinates. This ensures during calibration all colors are matched properly. Typically, in video mode, no color differences are visible, however, if white has been set at 50% brightness, the user may see a slight difference in color.

3 DIGITAL DATA REVISION

If a single pixel fails, the data will be read-out from the EEPROM and then re-wrote to the replacement chip. After this process the brightness value is calibrated again to ensure the uniformity of the entire system, thus providing easy and fast maintainability.

At the same time, the system records every displays' initial calibration data to avoid unevenly brightness caused by led attenuation. The updated screen brightness calibration data and recorded data, both ensure the uniformity of the display's brightness over a period of time.

CONTROL SYSTEM
4K PROCESSING

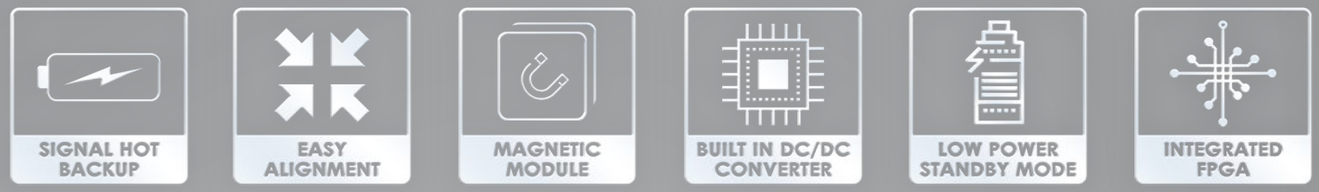
MPU9000 SPECIFICATIONS

Input			
Type	**Channel**	**Connector**	**Details**
DisplayPort	1	DisplayPort Standard	Supports DisplayPort 1.2. Max.3840×2160@30Hz
HDMI	3	HDMI Standard	Supports HDMI 1.4 Max.3840×2160@30Hz
DVI	2	DVI-I	Analog inputs not supported. DVI1 Supports dual-link Max.2560×1600@60Hz
SDI	1	BNC	Supports SMPTE 425M-Level A(3G-SDI), SMPTE 292M(HD-SDI), SMPTE 259M-C(SDI)
VGA	1	HD-15	Max.1080P@60Hz
YPrPb	1	3.5mm jack	Max.1080P@60Hz
Genlock	1	BNC	SD bi-level and HD tri-level sync, PAL, NTSC, 720p, 1080i/p, 576i/p, 480i/p
Output			
Type	**Channel**	**Connector**	**Details**
DisplayPort	1	DisplayPort Standard	Supports DisplayPort 1.2. Max.3840×2160@30Hz
HDMI	1	HDMI Standard	HDMI1.4.Suports 12bit deep color
DVI	1	DVI-I	Loop out from DVI2 input
SDI	1	BNC	Loop out from SDI input
Genlock	1	BNC	Loop out from Genlock Input
SPDIF	1	RCA	Supports standard S/PDIF for stereo LPCM or compressed audio up to 192 kHz
Headphone	1	6.5mm audio jack	Stereo Audio Output
LED Datalink	6	Neutrik etherCON	1Gbps/port
Others			
Control Methods	USB, Gigabit Ethernet, IR, HMI on the Font Panel		
Power	Neutrik powerCON connector, 100-240 VAC, 50-60 Hz, Max.25W		
Temperature	-10 ~ +50 °C		
Mechanical	472×375×90 mm		
Optional			
	Fiber optical direct output, single mode or multi mode MPU9000 (FM or FS)		

KEY FEATURES

- Integrated with SWITCH Monitor(2x2), Video Processor, Full-HD Media Payer and LED Display Controller
- Supports SD Card and mSATA SSD Mass Storage devices (up to 256GB for SSD and 200GB for SD)
- Available in fiber version with single mode or multi mode direct fiber output
- Supports DisplayPort 1.2, HDMI 1.4, dual-link DVI and 3G SDI Inputs
- Advanced Faroudja® video processing: MADi and DCDi
- Supports daisy chaining of monitors of up to four streams
- 6GB LED Display Data Link(optional fiber output)
- 6-axis color control independent of ACC
- 4K×2K screen resolution support
- Supports Gigabit Ethernet
- Built-in 6.5mm audio jack
- SPDIF Output by coaxial
- Supports Genlock
- Built-in Monitor
- 16bits Process

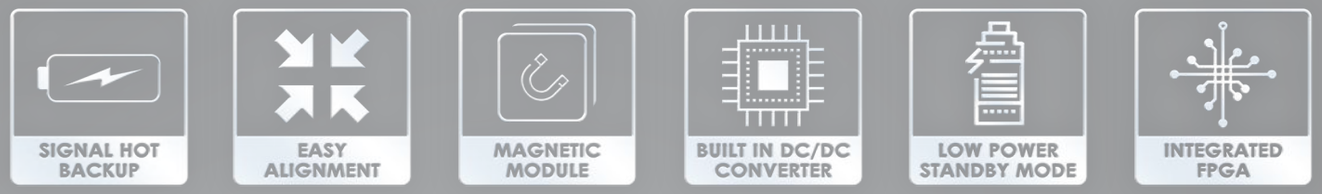
Indoor
Specifications



Custom designed by an industry leading Canadian engineer, our SX SERIES is equipped with automatic brightness technology to overcome any lighting conditions while delivering HD imagery.

FEATURES	INDOOR			
Model Name	S1HDR	S2HDR	S3HDR	S4HDR
Structure type	DSM	DSM	DSM	DSM
Physical pitch	1.9875mm	2.48mm	3.9mm	P4.9mm
Model Number	VFI1.98BLTHDR	VFI2.48BLTHDR	VFI3.9BLTHDR	VFI4.9BLTHDR
Tile Material	Plastic, stainless steel and aluminium			
Weight per cabinet / Square meter (KG)	< 15Kg / SQM / TBD /According Cabinet to Size			
Pixel Density (SQM)	253154	162 000	63 144	40 516
Tile Size (mm) (WxH)	318 x 238.5			
Tile Resolution (pixels)	160 x 120	128 x 96	80 x 60	64 x 48
IP Grade	IP62			
Voltage	5 - 60 VDC			
LED Type	3 in 1 SMD 1010	3 in 1 SMD 1515 True Black		3 in 1 SMD 2727 Black body
Power Supply Unit	Built in DC/DC converter			
Power Supply Redundancy	Built in Power Backup function with Dual DC/DC			
Operating Humidity Range	0-90%			
Grayscale	20 bit			
White Balance Brightness at 6500K after Calibration	1200 nits	1500 nits		
Operating Temp. Range	-30 to 65°C			
Scanning Mode	1/24	1/16	1/8	
Typical lifetime	>= 100 000 hrs			
Maintenance Access	Rear (Front Access Optional)			
Viewing Angle	>= 170° x 170°			
MAX (per SQM - W/H)	520			
Average (per SQM - W/H)	156			

Outdoor
Specifications



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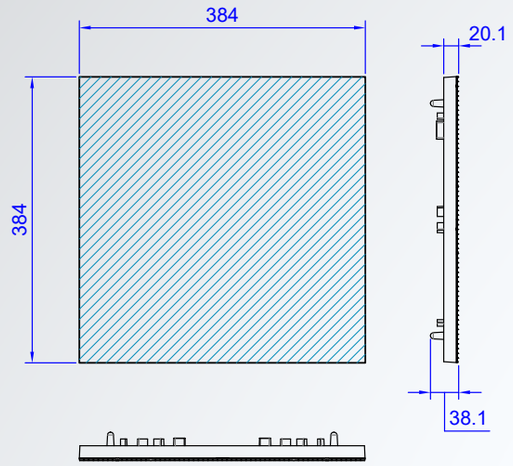
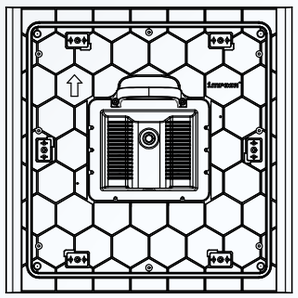
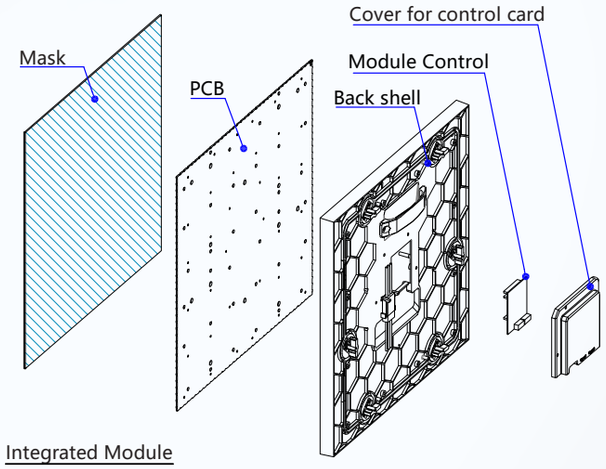
FEATURES	OUTDOOR						
Model Name	S3HDR	S4HDR	S6HDR	S10LHDR	S10HDR	S11HD	S16HD
Structure type	SM	SM	SM	SM	SM	SM	SM
Physical pitch	3.9mm	4.9mm	6.4mm	10.6mm	10.0mm	11mm	16.6mm
Model Number	VFO3.9BLTHDR	VFO4.9BLTHDR	VFO6.4LTHDR	VFO10.6LTHDR	VFO10LTHD	VFO11LTHD	VFO16.6LTHD
Tile Material	Plastic, stainless steel and aluminium						
Weight per cabinet / Square meter (KG)	< 15Kg / SQM / TBD /According Cabinet to Size		< 17Kg / SQM / TBD /According Cabinet to Size				
Pixel Density (SQM)	63 144	40 504	24 414	8 789	10 000	8 100	3 906
Tile Size (mm) (WxH)	318 x 238.5		384 x 384		400 x 400		
Tile Resolution (pixels)	80 x 60	64 x 48	60 x 60	36 x 36	40 x 40	36 x 36	24 x 24
IP Grade	IP67						
Voltage	5 - 60 VDC						
LED Type	3 in 1 SMD 2727 Black body					1R 1G 1B DIP 346	
Power Supply Unit	Built in DC/DC converter						
Power Supply Redundancy	Built in Power Backup function with Dual DC/DC						
Operating Humidity Range	0-90%						
Grayscale	16 bit (Optional 20 bit for HD4K)						
White Balance Brightness at 6500K after Calibration	6500 nits (Increase Optional)					7500 nits (Increase Optional)	
Operating Temp. Range	-30 to 65°C						
Scanning Mode	1/8	1/6	1/2 Cross Scan				
Typical lifetime	>= 100 000 hrs						
Maintenance Access	Rear (Front Access Optional)						
Viewing Angle	>= 170° x 170°						
MAX (per SQM - W/H)	550					250	
Average (per SQM - W/H)	165					75	

Design & Installation

TILE DESIGN



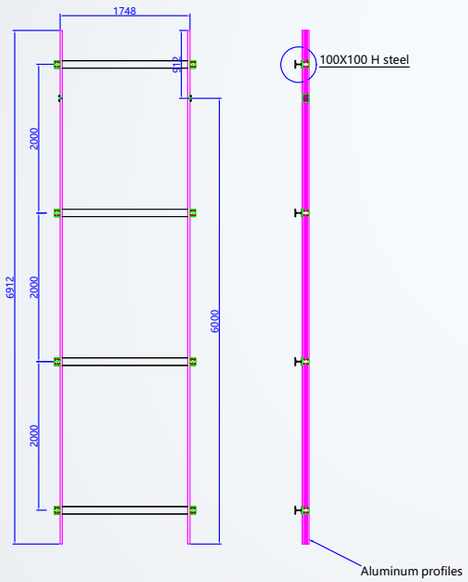


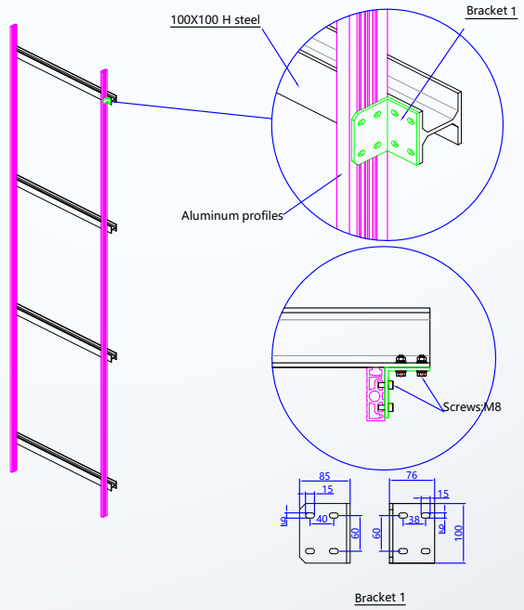


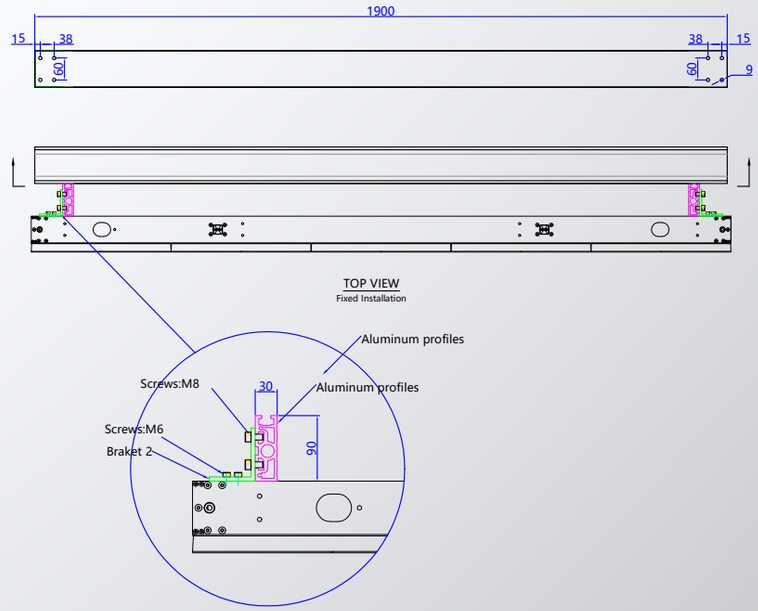
Integrated Module

The module, with a built-in control card, is a small cabinet, which can display content independently.

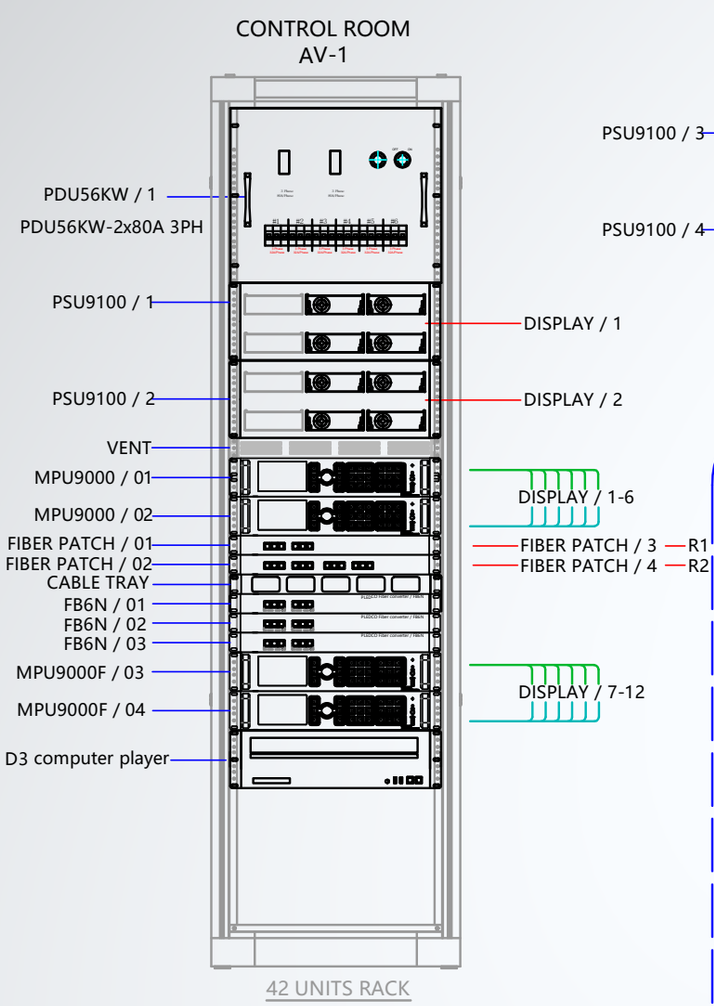
INSTALLATION

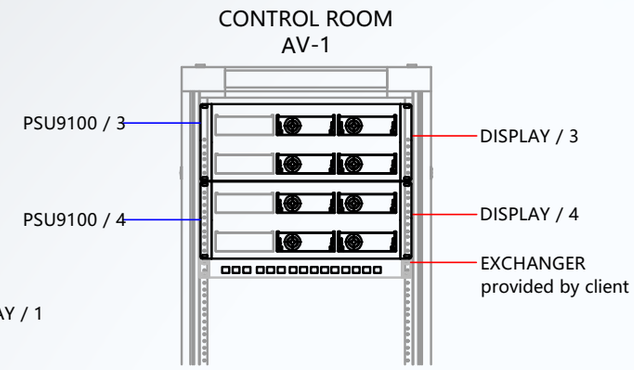


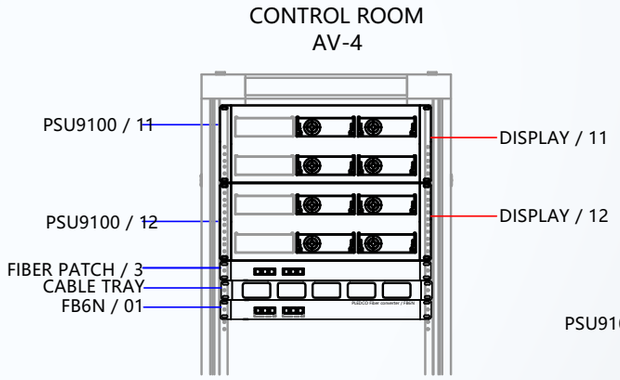


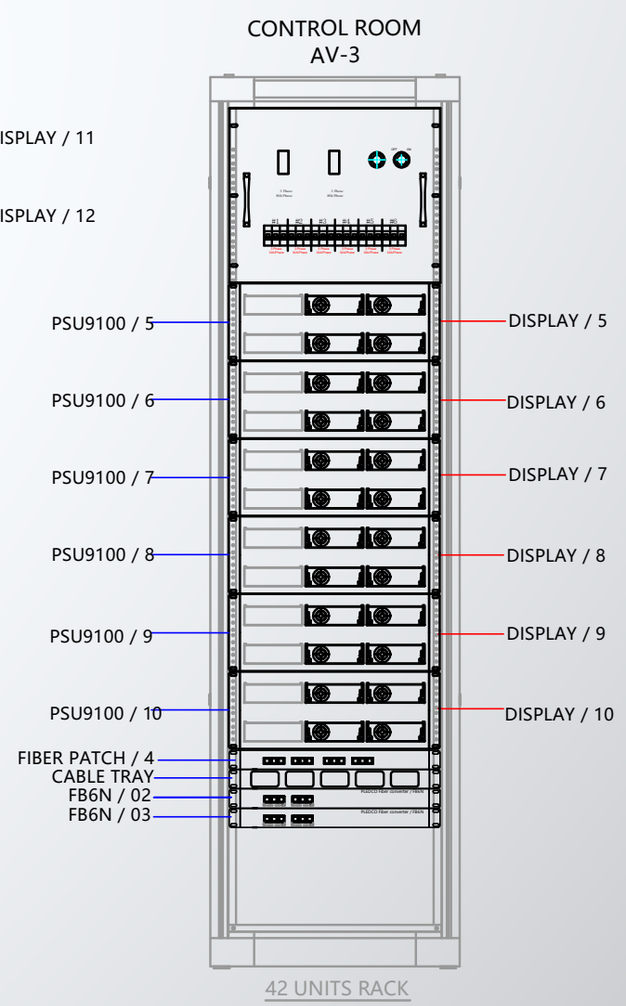


Control
Room



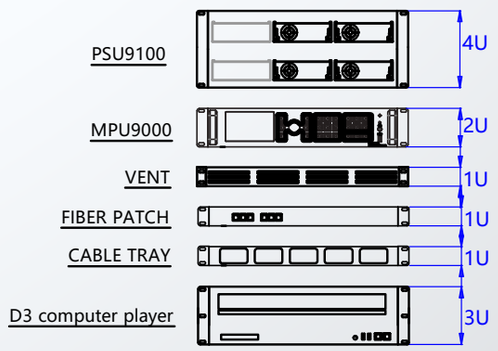






R1 6 Channels (12 core) multicore fiber MMF. Minimum requirement:
- -duplex LCLC connector
- -8 um core diameter
- -125 um cladding diameter
- -250 um Buffer diameter
- -400 um Jacket diameter
- -Proof test level 100 KPsi

R2 12 Channels (24 core) multicore fiber MMF. Minimum requirement:
- -duplex LCLC connector
- -8 um core diameter
- -125 um cladding diameter
- -250 um Buffer diameter
- -400 um Jacket diameter
- -Proof test level 100 KPsi



CUSTOMER SERVICE

At PLEDCO, we strongly emphasize the importance of customer relationships, and their trust in our products. Our key to lasting relationships focuses on delivering world-class LED products, while promising exceptional customer service and reliability, ensuring our clients a relaxing experience. PLEDCO is recognized as an industry leading LED total solution provider, from initial inquiry to after sales, our heavily trained team will guide you step-by-step through the entire process of your LED project.

Installation Support

Our skilled technicians can professionally install your LED Displays without disturbing your projects schedule. Mitigation and problem-solving are inevitable during the installation process, and PLEDCO's installation "Gurus" have the experience, know-how, and technical expertise to handle nearly any situation. We are able to provide you with all the required documents including; specification sheets, system diagrams, complete display and structure elevation drawings, and 3D rendering if required. As your dedicated total solution provider, we promise to be there step- by-step guiding you through your project, from initiation to closing.

24/7 Technical support via online or phone

Our phone and online live support systems enable us to provide 24/7 technical assistance. If you require urgent assistance, our skilled technicians are always ready to help, regardless of difficulty. Technicians are required to pass intensive training and testing to ensure issues are dealt-with professionally and accurately, while emphasizing the importance of your project's

Warranty & Maintenance

With over 20 years of combined professional experience, our internationally exposed engineers have specially designed and developed LED Display solutions to cope with harsh environments and withstand extreme temperatures. However, in the event of a problem, our highly experienced technical support team promises minimal display downtime by utilizing our bullet-proof troubleshooting expertise. Nearly all of Pledco's products include a 5-year warranty, with optional extensions available upon request.

Parts Availability for the Next 15 Years

Our manufacturing facility produces all the parts used assemble our LED displays. More importantly, we own all the technology, molds and PCB layout designs that are used to develop these parts. This provides us with the reliability knowing exactly what materials are being used and ensures the quality of our products can easily be managed directly from the production level. One of the biggest after-sales issues a client could have is being able to receive replacement LEDs that have been recalibrated exactly the same as the display when first produced. PLEDCO is one of the few companies in the world who utilizes the international HD NTSC REC-709 calibration in LED display, thus making it possible for us to provide our clients the exact same LEDs to match their display by using Radiant's camera technology.

PLEDCO

PLEDCO LTD.
2/F Flat Roof 167 Lockhart Road
Hong Kong

pledco.com
info@pledco.com
worldwide: 1-855-717-2606