TITAN XR SERIES

INTEGRATED FPGA

HIGH-END

DURABILITY

1080P FULLHD
FULL HD VIDEO

UNIVERSAL POWER

CORROSION-RESISTANT

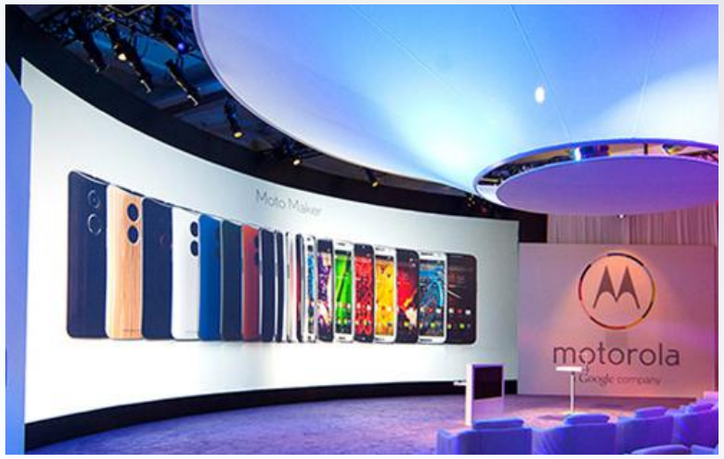
INDOOR UHD DISPLAY

PLEDCO

PRISTINE IMAGERY

HIGH PRECISION & **SLEEK CABINET ALIGNMENT**

The Titan XR Series' Indoor LED Display cabinet has a sleek aluminium cabinet which has been CNC processed to ensure a precise and durable cabinet alignment. Our cabinets seamlessly connect ensuring there is less than a <0.2mm tolerance while projecting a stunning uniform image.



LOW BRIGHTNESS & **HIGH GREY LEVELS**

The Titan XR Series' Indoor LED Display cabinet has the ability to project high levels of grey while maintaining low brightness. The grayscale comparison can be seen below to prove our technology's pristine imagery. Standard LED display cabinets fail to reach high levels of grey scale due to low quality engineering from their software and calibration, however, Pledco's advanced software, control system and calibration enables us to reach these picturesque levels while maintaining low brightness.

HD BROADCAST **COMPATIBLE**

The Titan XR Series' Indoor LED Display cabinet is HD Broadcast compatible for television recording. Our ultra-high refresh rates ensure when broadcasting live television the LED display stays flicker free but more importantly continues to project pristine imagery. In addition all our HD LED display are fully equipped with a full redundancy control system to ensure zero downtime during a live event.

PRODUCT

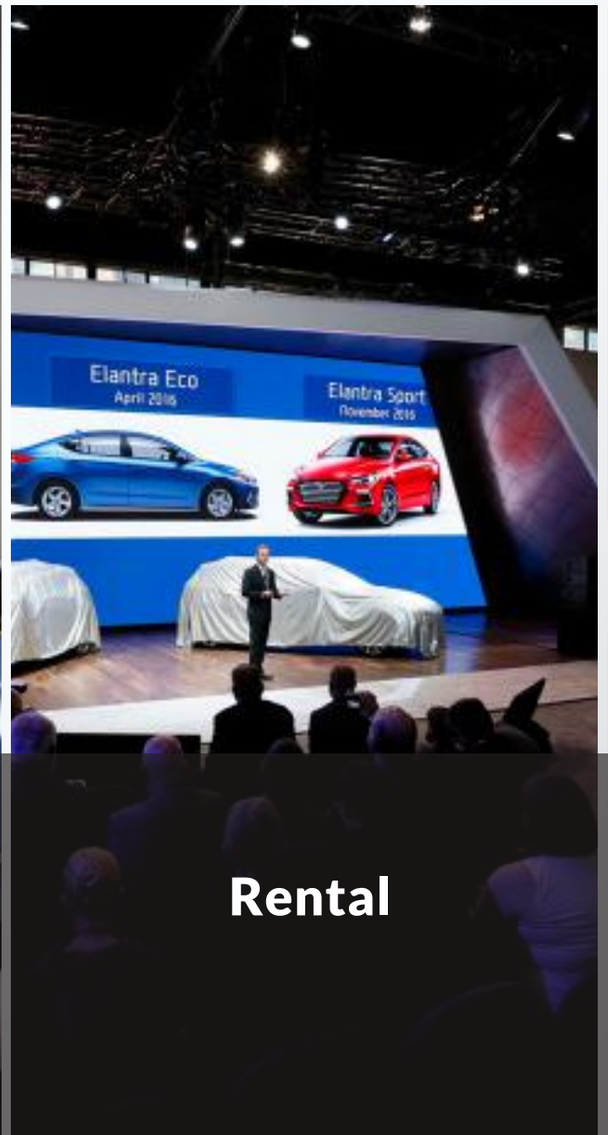
ADVANTAGES

PLEDCO's Titan XR Series offers a variety of cabinet sizes in both front/back service and rental. Most companies are limited to their availability in cabinet sizes. This limitability can make it extremely difficult when trying to meet a client's dimension demands for an exact sized project request. At PLEDCO we are able to produce any size of LED display requested based on our versatile cabinet structure size availability.

CABINET INSTALLATIONS

Front Service

Back Service

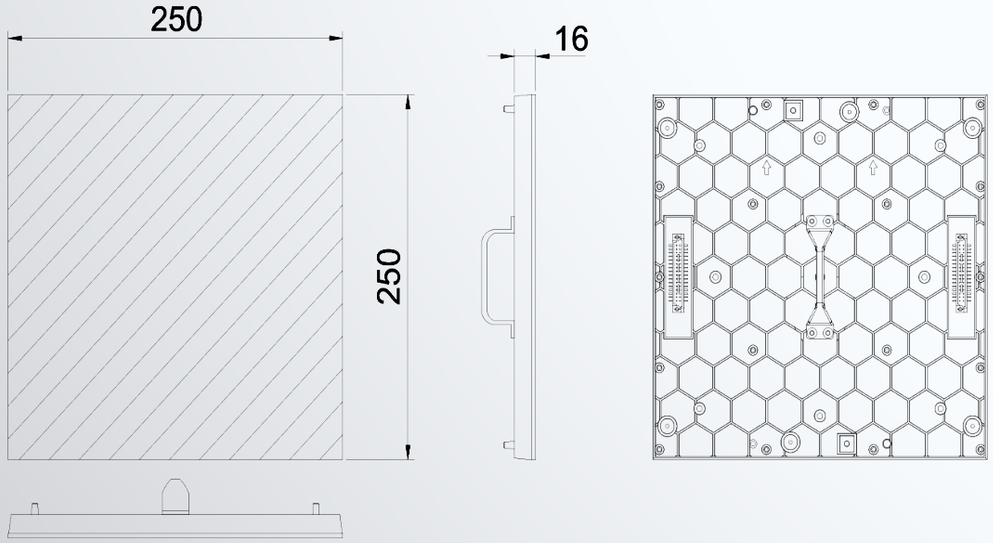


Rental

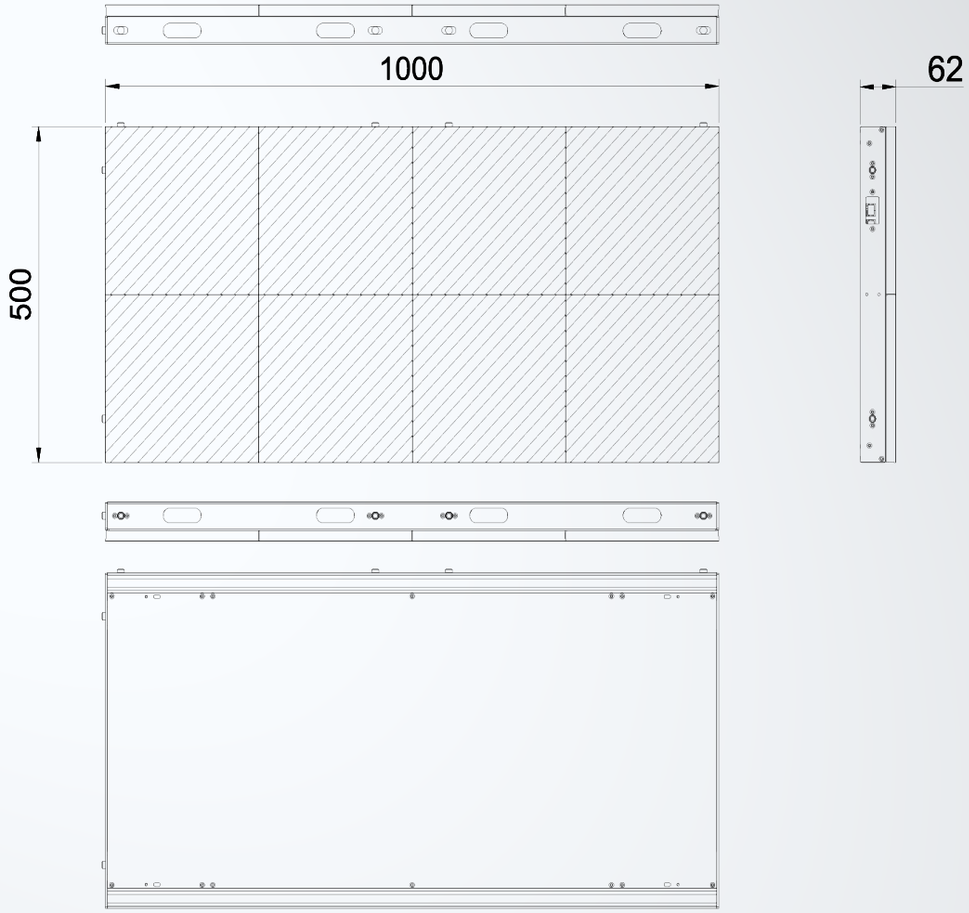
Custom

CABINET
STRUCTURES

Module Dimension (mm)

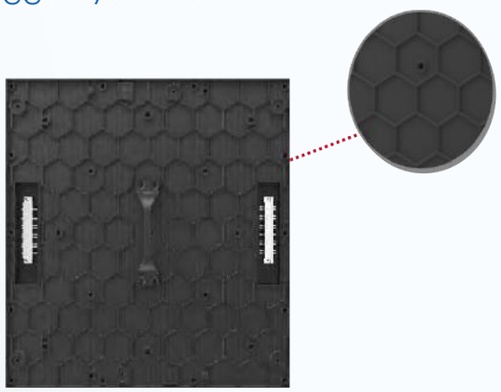


Cabinet Dimension (mm)



TITAN XR SERIES
FEATURES

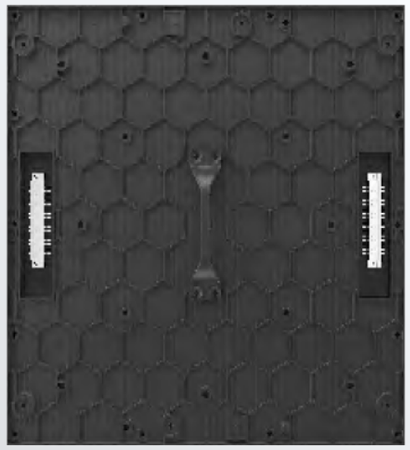
Patented honeycomb tile designed to be rugged yet slim.



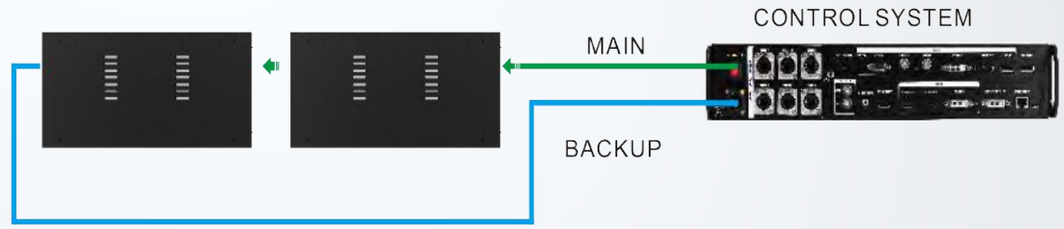
Super slim tile of ONLY 62mm, and has been specifically designed for tight quarters installation

Front service magnetic tile can be dissembled with speed and ease.

Modules are interchangeable for either the left or right side of a display.



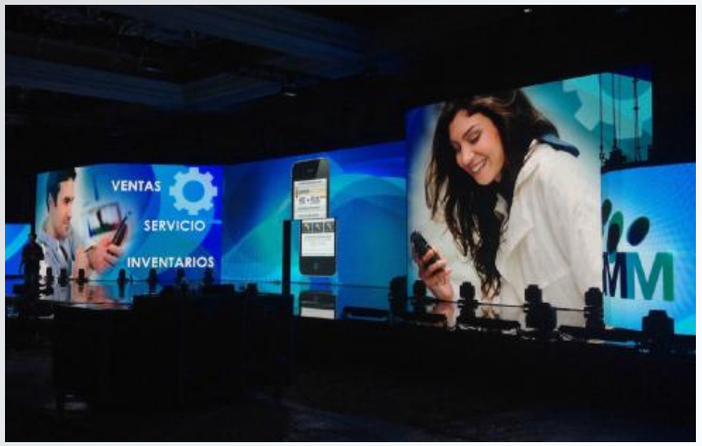
Full data redundancy to ensure zero down time during live events.



INDOOR APPLICATIONS

AIRPORT

EVENTS



FINANCIAL

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 0.01mm. 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

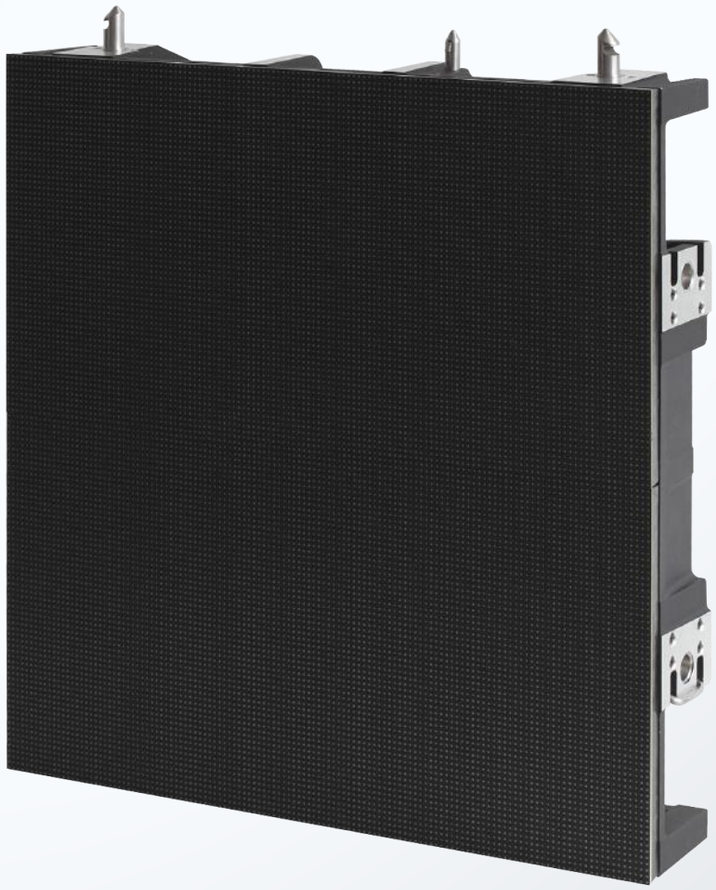
The same batch of LED's with discrete distribution are all moved to PAL Mode Chroma Area through color coordinate calibration Technology.

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

- The LED display to show natural and vivid colors.
- 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 uneven 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
- Gigabit Ethernet
- Built-in 6.5mm audio jack
- SPDIF Output by coaxial
- Supports Genlock
- Built-in Monitor
- 20bits Process

PRODUCT

FEATURES & SPECIFICATIONS

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

Industry Canada Industrie Canada
ICES-003 INFORMATION TECHNOLOGY EQUIPMENT (ITE)

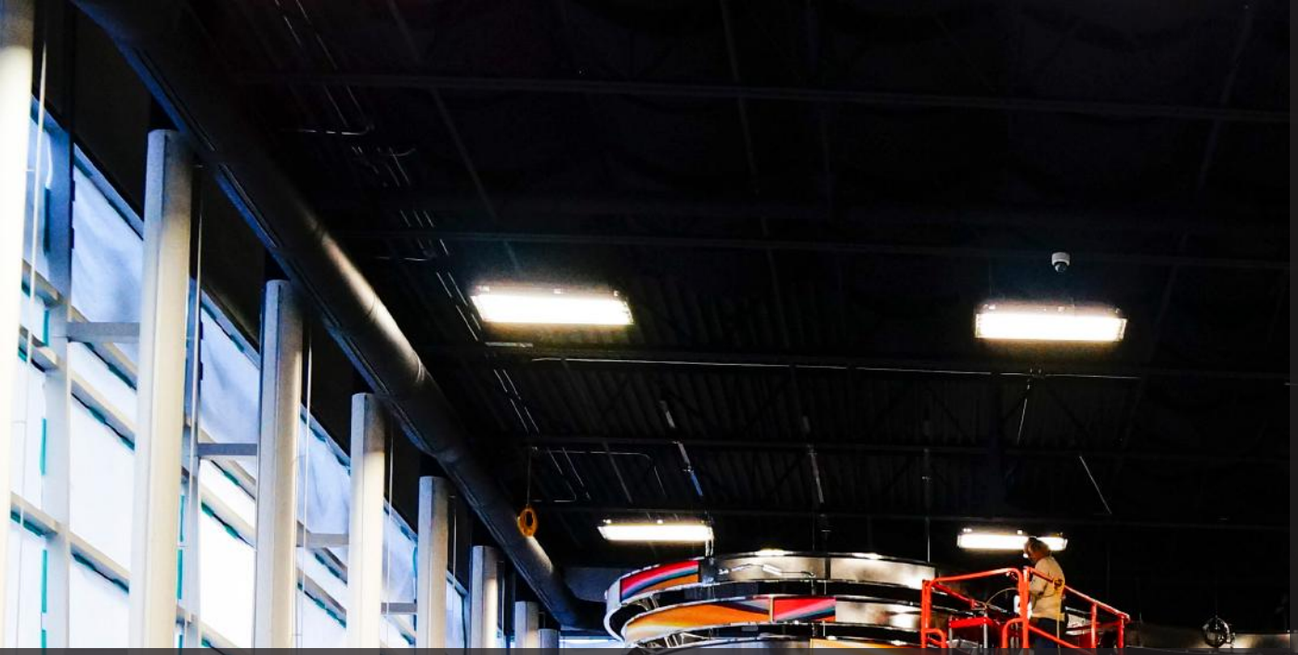
European Commission LOW VOLTAGE DIRECTIVE

PLEDCO

THE FUTURE
of LED technology

From sports stadiums, to spectaculars and beyond, PLEDCO has over 25 years' experience in meeting customers' unique needs. Backed by a talented team of engineers and designers and a robust product line offering, PLEDCO can turn your display dream into a reality.

Model	VFI1.9LTXR	VFI2.6LTXR	VFI3.9LTXR
Pixel Pitch	1.95mm	2.6mm	3.9mm
Size of Cabinet (W x H - mm)	500 x 1000 x 62 (customizable options)		
Resolution of Cabinet (W x H - pixels)	256x512	192x384	128x256
Weight of Cabinet (KG)	16.4		
Size of Module (W x H - mm)	250 x 250		
Resolution of Module (W x H -pixels)	128 x 128	96 x 96	64 x 64
Pixel Configuration	3 in 1 SMD 1010 True Black		
Grey Level	20 Bit		
Refresh Frequency	>4800HZ on MSB and LSB Grey scale and special proprietary cross scanning technology.		
White Balance Brightness at 6500K after Calibration	1500 Nits	1200 Nits	
Color Temperature	3200K to 9500K (4 x Presets and 1 Custom)		
Viewing Angle	>= 170° / 170°		
Maintenance Access	Rear (Front Access Optional)		
Voltage	110/220VAC, 50-60HZ		
Operating Temp / Humidity	-20°C - 65°C / 10%-85%		
Typical Lifetime	>= 100 000 hrs MTBF 25 000 hrs		
Power Consumption of Cabinet Max. (W/m²)	450		
Power Consumption of Cabinet Avg. (W/m²)	160		



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 schedule.

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 to 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 of knowing exactly what materials are being used and ensures the quality of our products and can 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

by IMPOSA

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