Splash some water
The all new waterproof
Samsung

CALLISTO series
Outdoor SMD PLEDCO

At PLEDCO, we design, manufacture, assemble and provide industry-leading BILLBOARDS, all from a single source.

Our products are designed to match the requirements of numerous environments, markets, sizes and data specifications.

PLEDCO offers a complete set of specification options, allowing us to match your precise technical requirements.

Whether you desire one of our popular standard cabinets or seek a custom solution, our international team of experts will help you choose the best product to meet your projects goal.

PLEDCO **THE FUTURE** of LED technology

HIGH-QUALITY
BILLBOARD DISPLAY

Our Callisto SERIES features only the best components, all of which are tested and verified in our state-of-the-art calibration factory. With thousands of displays installed around the world, PLEDCO has a vast technical expertise in a broad range of climates and operational environments.

► High brightness for up to 6000nits and beyond
► Remarkable visibility for outdoor advertising campaigns
► Waterproof IP67 certification, applicable to any weather and season
► Data and power back-up technology for minimal display downtime
► Patented Virtual pixel technology for increased pitch flexibility and energy saving capabilities
► Section by section LED display panels for quick installation and hassle free maintainance
► Remoted diagnostic system

PLEDCO BILLBOARDS

Reach more people everyday while they commute by vehicle, walking downtown or just enjoy watching their hometown team play.

Our Canadian-inspired design complements surrounding environments in a way that allows our billboards to stand out from the competition.

PLEDCO

PRISTINE IMAGERY
Integrated with LED REFLEX Technology assists to project the clearest resolution and picture, even during direct sunlight periods of the day.

FULLY AUTOMATED CONTROL
Our Control System technology guarantees that your Billboard is working in full capacity with minimal maintenance required. One can adjust and check the power backup backup remotely.

CUTTING-EDGE TECHNOLOGY
Integrated with PLEDCO's award winning LDU3000 controller, guarantees a user-friendly experience from the initial set up and throughout the life-time of the billboard.

PRODUCT
FEATURES

While older forms of BILLBOARD technology had the right idea, today's LED Display presents flexibility that the out-of-home advertising industry instinctively needs. People look at signs for change. They enjoy variety and a mixture of messages. The additional ad space billboards offer and their advantages over competing technologies cannot be overlooked.

CHOOSE YOUR OWN
PIXEL

We can help you decide what is the best and most suitable pixel pitch for your Billboard.
We have a constant and reliable formula to compute the necessary pixels to maximize the capability of your Billboard display.
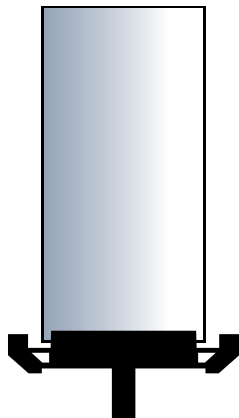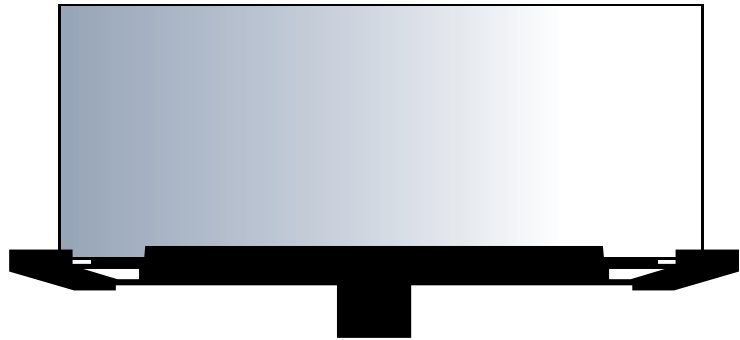

VIEWING DISTANCE IN
RELATION WITH TEXT

VIEWING DISTANCE IN
RELATION WITH PIXELS
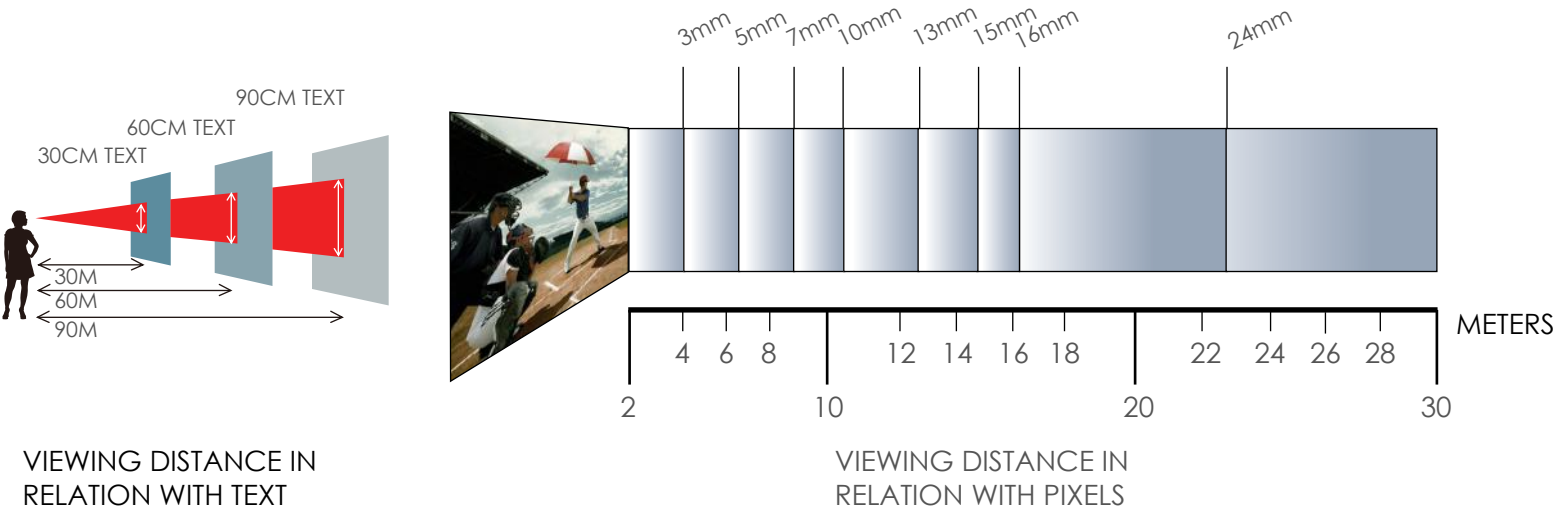
FLEXIBLE
OPTIONS

We offer a variety of flexible mounting options to accomodate each unique application:
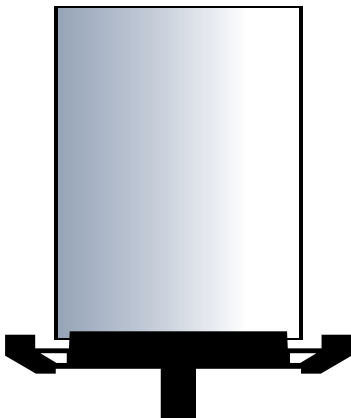
WIDE SERIES
2.88M X 9.28M

TALL SERIES
4.8M X 3.52M

LANDSCAPE SERIES

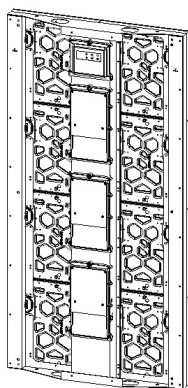|			
REGULAR	2.8M X 6.08M	MEDIUM	2.88M X 9.28M
LARGE	2.8M X 10.88M	X-LARGE	4.16M X 8.64M
XX-LARGE	3.5M X 14.72M	XXX-LARGE	4.16M X 14.72M
GIANT	4.8M X 7.68M	JUMBO	6.08M X 18.24M

PLEDCO

FRAME
STRUCTURES
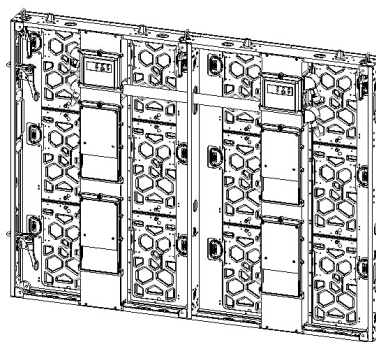
Cabinet Structure
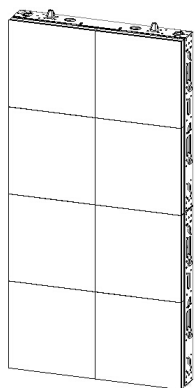
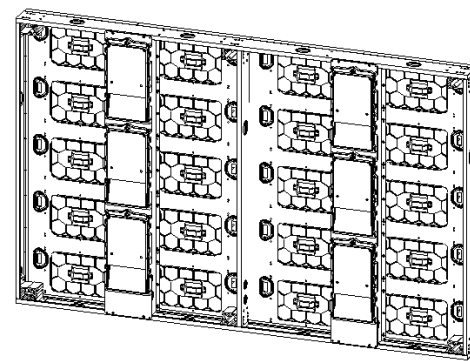
Fixed Installation
640mm x 1280mm
Front Service
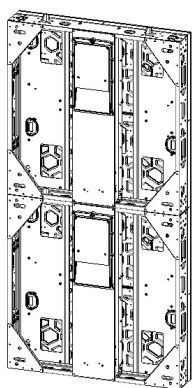
Fixed Installation
640mm x 1280mm
Back Service

Rental series

Custom Cabinet
1536mm x 960mm

Module Structure

P13.3-P26.7 module
Size: 320X320mm

P10 module
Size: 320mm x 160mm

P10.6/P16 Special Size
Size: 384mm x 192mm

PRODUCT
DESIGN

"Ability to integrate into a multitude of applications in a matter of minutes"

The main benefit of this cabinet is its ability to integrate into a multitude of applications in a matter of minutes. Whether you choose to integrate into a fixed or rental project is completely up to the end user. This cabinet has been specifically designed to be light-weight and rugged thus labeling this product as the only all-in-one solution on the market.

PLEDCO's CALLISTO Series has been designed and developed to either a collapsible or fixed base, which secure the cabinets firmly in place. Our step by step guide on how to integrate the CALLISTO Series Cabinets (figure 1) into a Perimeter Collasible Display (figure 2) can be seen below.
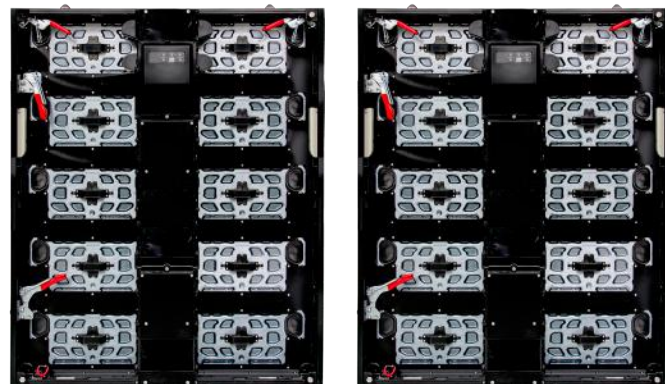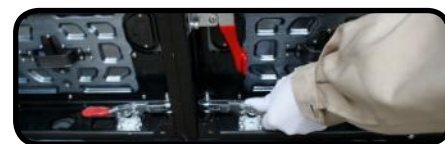

(FIGURE 1)
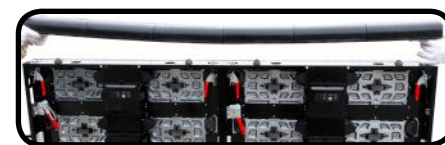
install the top cover cushion

lock the middle rig to bind the two panels

lock the bottom rig

(FIGURE 2)
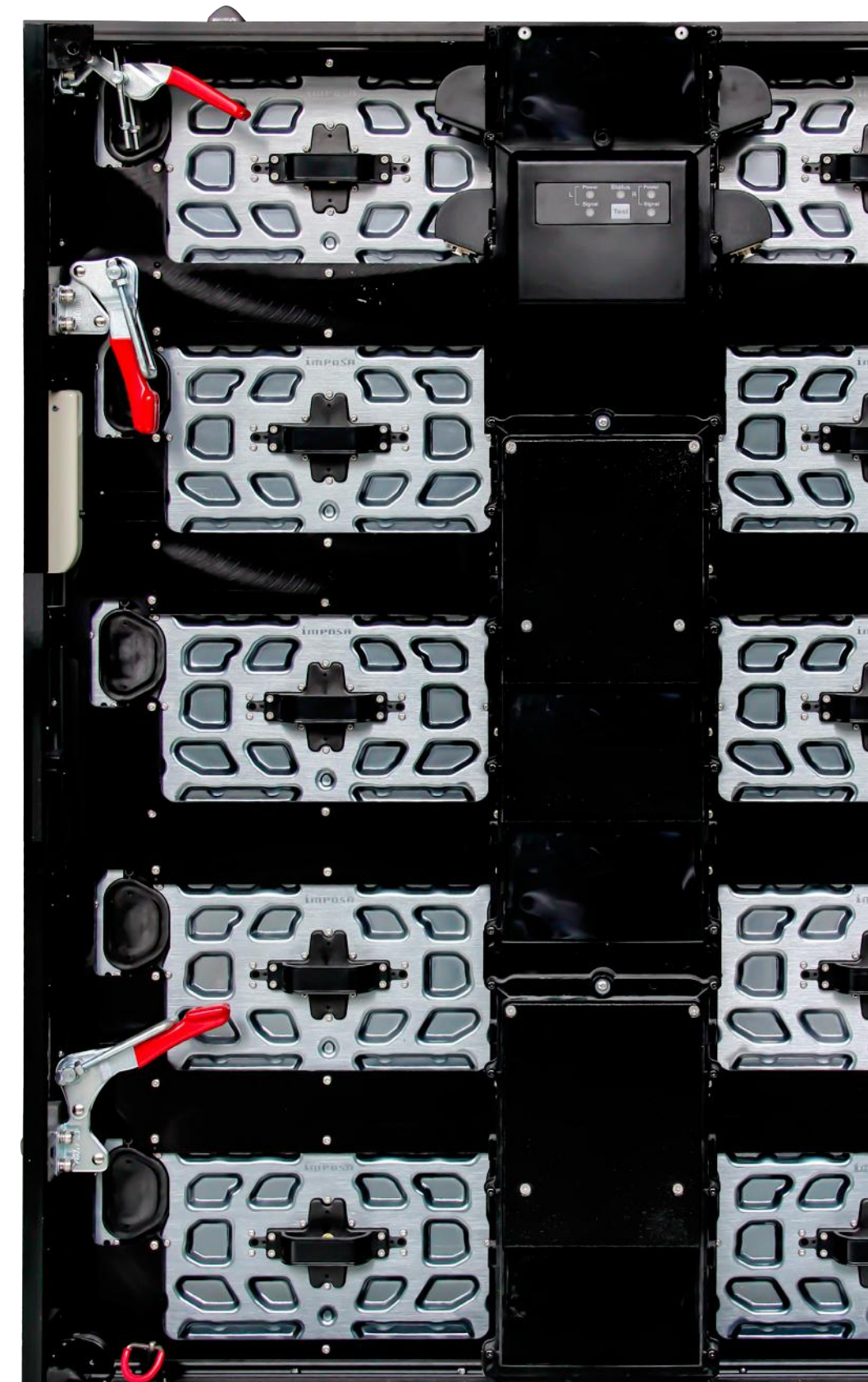
PLEDCO

PRODUCT
ADVANTAGES

PLEDCO's CALLISTO 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 avail-

CABINET
STRUCTURES
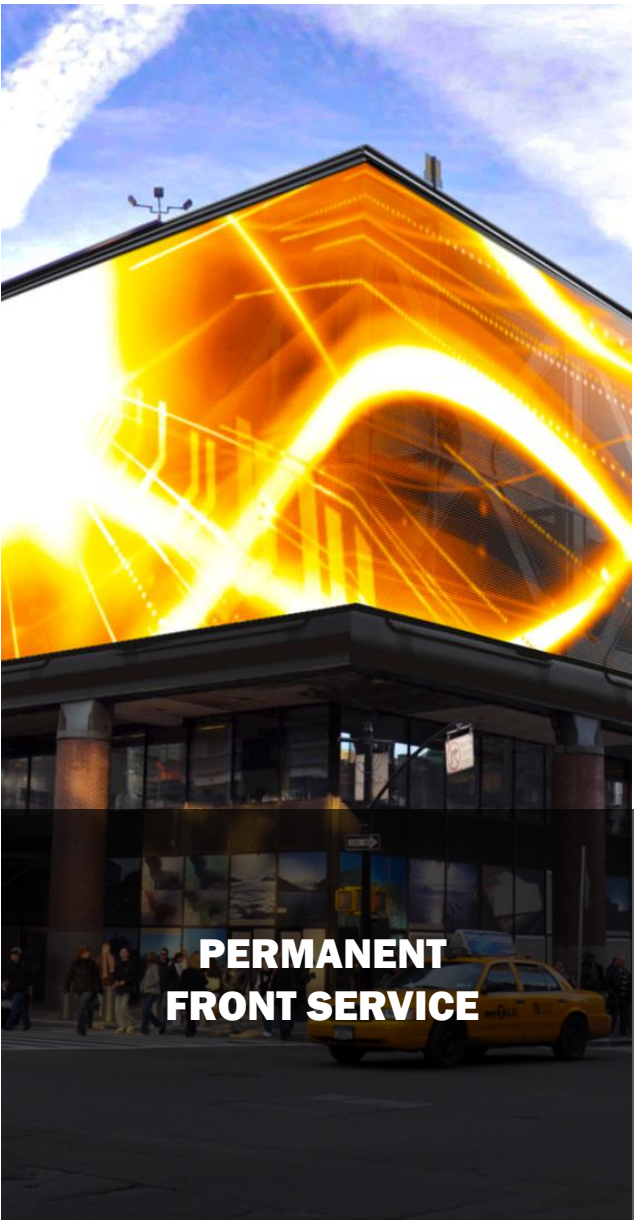
PERMANENT FRONT SERVICE
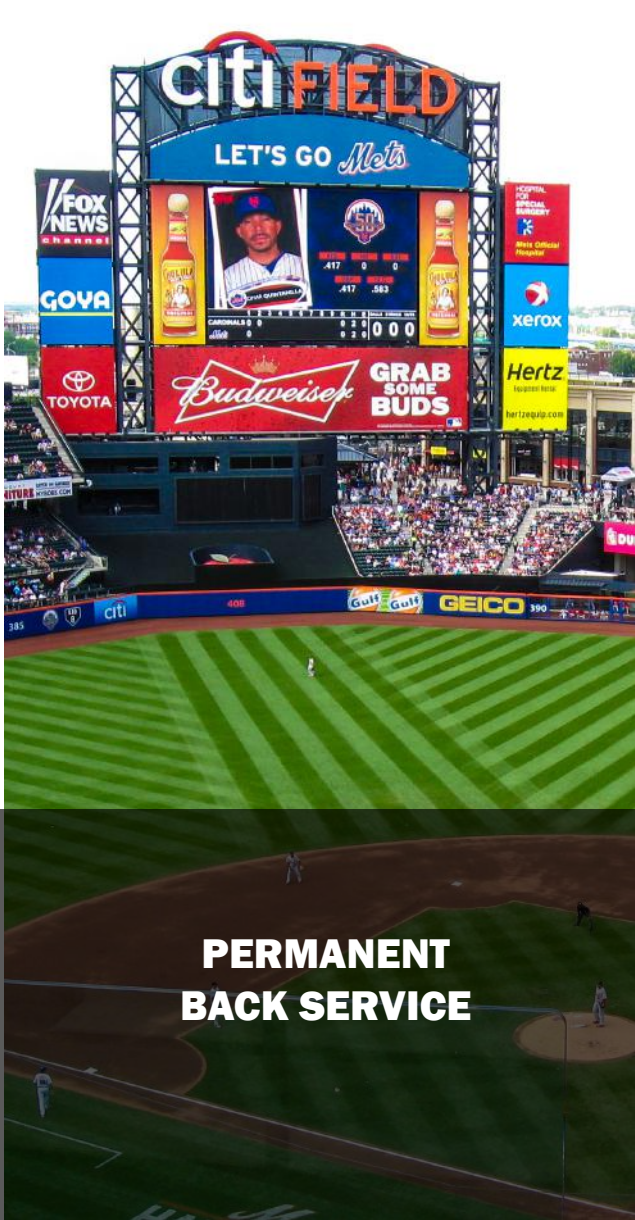
PERMANENT BACK SERVICE

RENTAL

CUSTOM & CURVE

CONTROL
SYSTEM

Our Control System can run on-line (synchronous) as well as off-line (asynchronous). The displays can be accessed, controlled as well as monitored online thanks to our unique, reliable and stable Linux-based platform.

Logic digital unit

PLEDCO LDU

FIBER OPTIC

Video Processor

PLEDCO VPU

DVI

3G

LIVE CAM

TV SIGNAL

LED DISPLAY
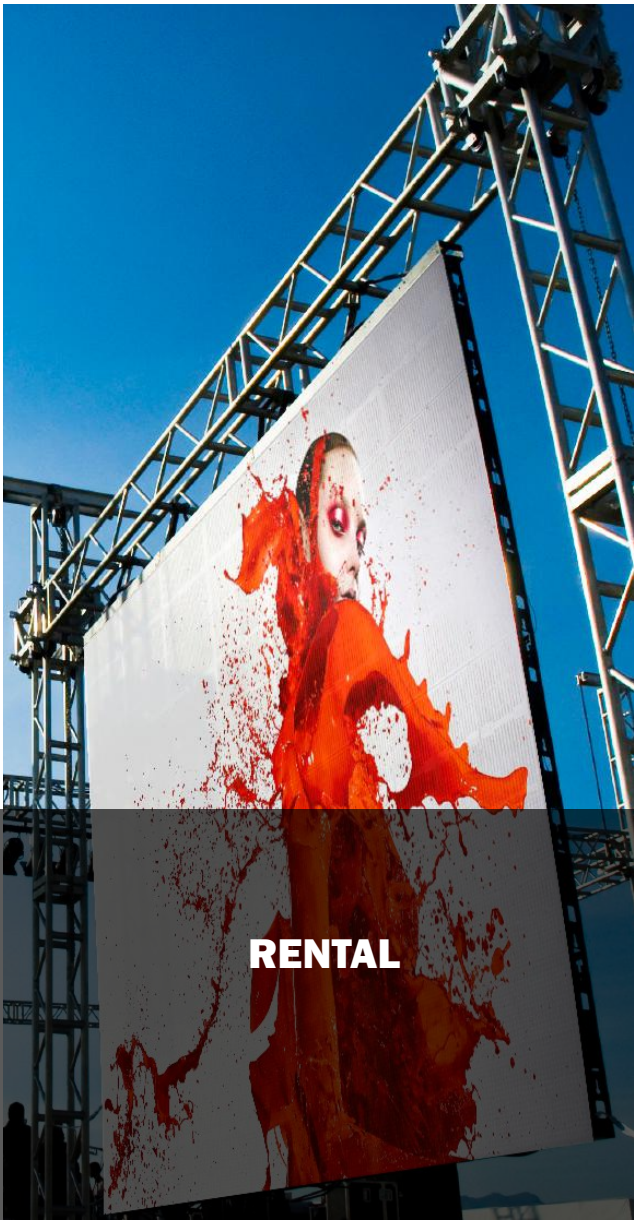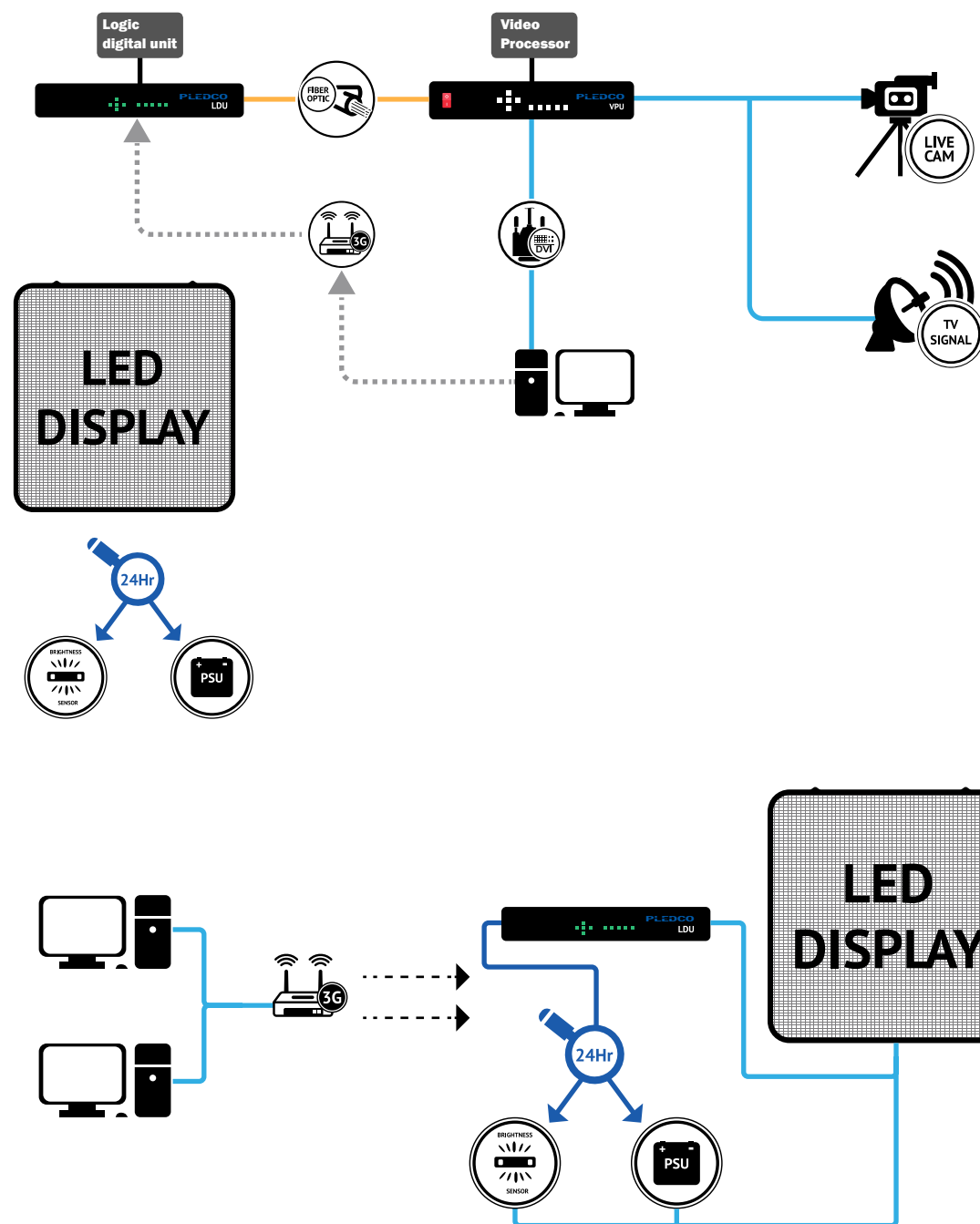
24Hr

BRIGHTNESS SENSOR

PSU

LED DISPLAY

PLEDCO LDU

3G

24Hr

BRIGHTNESS SENSOR

PSU

MAIN

BACKUP

LINK

MAIN

BACKUP

DATA, POWER BACKUP AND
MONITORING

The system monitors every LED lamp and Power Supply, with the ability to notify immediately upon failure. This highly innovative function ensures continuous display up-time. In case of failure, your displays' control system can send a SMS or an e-mail, and inform you of the exact error in occurring.

- Single Controller Redundancy
- Up To 1,000,000 Pixel Per Port

PLEDCO LDU

PLEDCO LDU

3G

TCP/IP remote and monitoring

ALERT!!!

ALERT!!!

- Full - Dual Controller Redundancy
- Up To 1,000,000 Pixel Per Port
- GB PORT
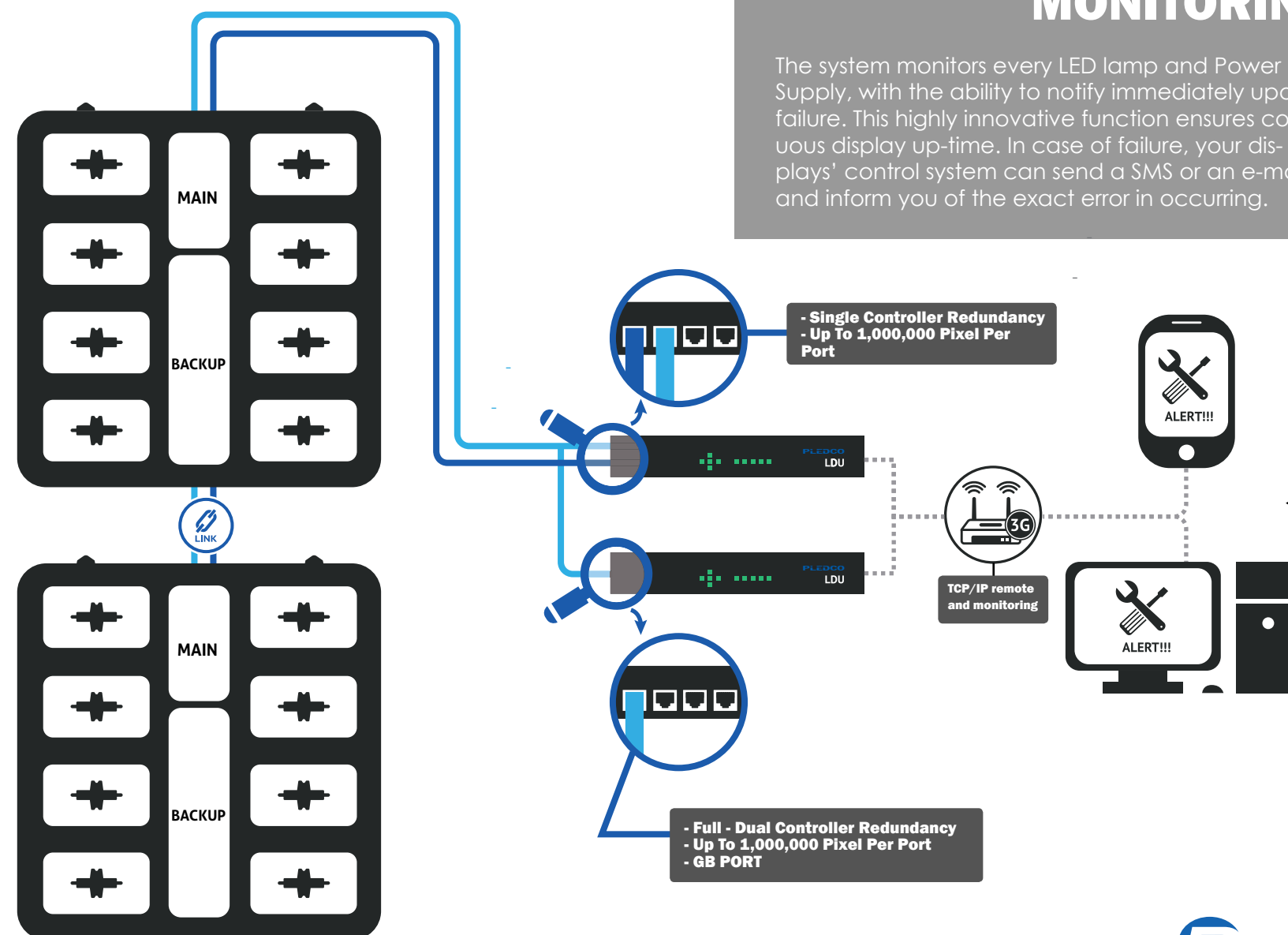
PLEDCO

PLEDCO HD DISPLAY

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

SYSTEM
CALIBRATION

All X & Y coordinates are kept in our client project database. When you order new tiles for an exisiting project we retrieve the original X & Y coordinates. This ensures during calibration all colors are matched properly. Typically in video mode you will not see any color differences, however when white is at 50% brightness the user may see a slight difference in color.

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.
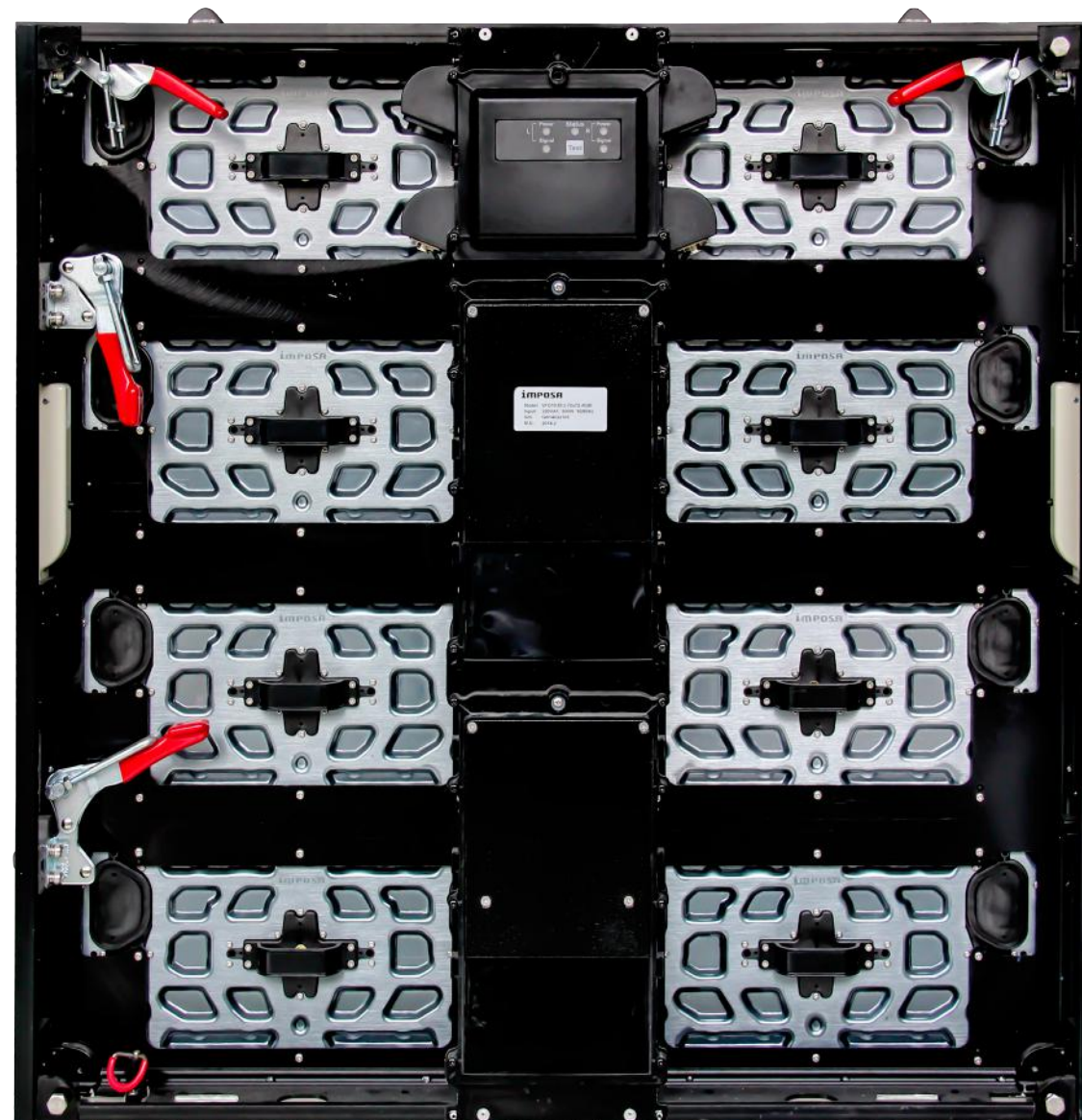
2 COLOR COORDINATION
PROCESS

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.

3 DIGITAL DATA
REVISION

If an 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.

PLEDCO

PRODUCT
FEATURES

Custom designed by an industry leading Canadian engineer, our CALLISTO is equipped with automatic brightness technology to overcome any lighting conditions while delivering HD imagery.
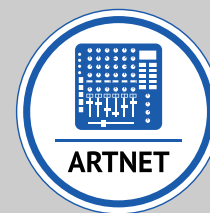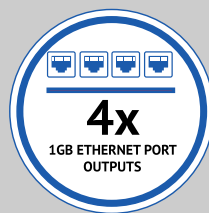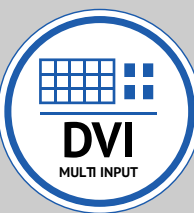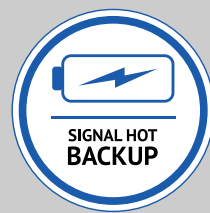
Industry Canada / Industrie Canada
ICES-003 — INFORMATION TECHNOLOGY EQUIPMENT (ITE)

European Commission — LOW VOLTAGE DIRECTIVE

Features icons: DVI LOOP · REAL-TIME MONITORING (24Hr) · NEUTRIK SIGNAL & POWER SUPPLY CONNECTORS · DYNAMIC GAMMA CORRECTION · SIGNAL HOT BACKUP · GENLOCK · DVI MULTI INPUT · 4x 1GB ETHERNET PORT OUTPUTS · ARTNET

Certifications: ETL INTERTEK LISTED C US · CE · FC (FCC)

CALLISTO
SPECIFICATIONS

Callisto Series Specifications					
Physical pitch	6.41mm	8mm	10.6mm	12mm	16mm
Standard Cabinet Size (WxHxD mm)	768 x 768 x 92				
Cabinet Resolution (pixels)	156 X 156	96 X 96	72 X 72	64 X 64	48 x 48
Cabinet Weight (KG)	24				
Tile Size (mm) L x H	384 x 192 (2 x 4 per panel)				
Tile Resolution (pixels)	60 x 30	48 x 24	36 x 18	32 X 16	24 x 12
LED Type	3 in 1 SMD 3535 True Black	3 in 1 SMD 3535 Black Body			
Greyscale	16 bit				
Refresh Frequency	>1000 (Max 4000)				
Brightness (cd/m2)	5500 Nits	6500 Nits (optional 7500 nits)			
Frame Rate (Hz)	50 / 60 / 100 / 120				
Viewing Angle	>= 155° x 155° (H +75.5 / -75.5 and +V75.5 / - 75.5)				
Maximum (per cabinet)	650 Wh				
Average (per cabinet)	250 Wh				
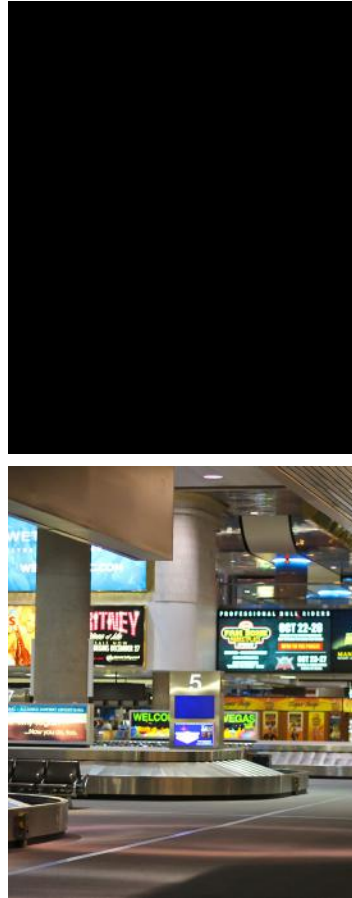
PLEDCO

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 offerring, PLEDCO can turn your display dream into a reality.

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.

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 down-time by utilizing our bullet-proof trouble-shooting expertise. Nearly all of Pledco's products include a 5-year warranty, with optional extensions available upon request.

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 schedule.

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

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Hong Kong

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info@pledco.com
www.pledco.com

PLEDCO