CALLISTO X SERIES

WIDE VIEWING ANGLE

REAL-TIME MONITORING

HIGH BRIGHTNESS

FRONT & REAR MAINTENANCE

SIGNAL HOT BACKUP

MODULAR DESIGN

OUTDOOR SMD

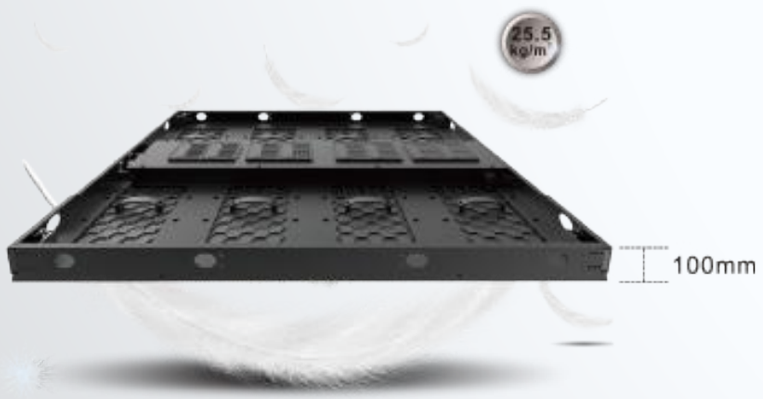
PLEDCO

PRISTINE IMAGERY

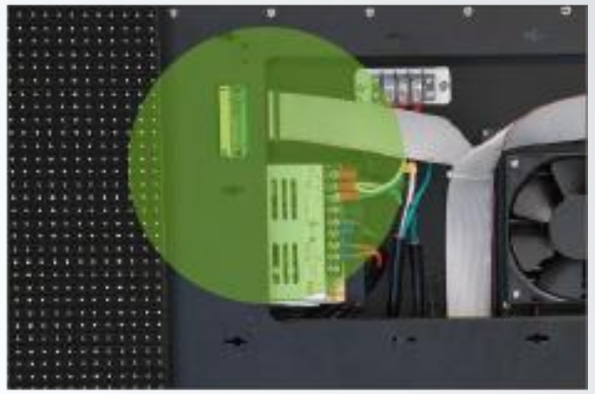
Callisto-X

FEATURES

Thin and light, 100mm and 25.5kg/m2



Pin connector instead of flat cable, fast module installation.

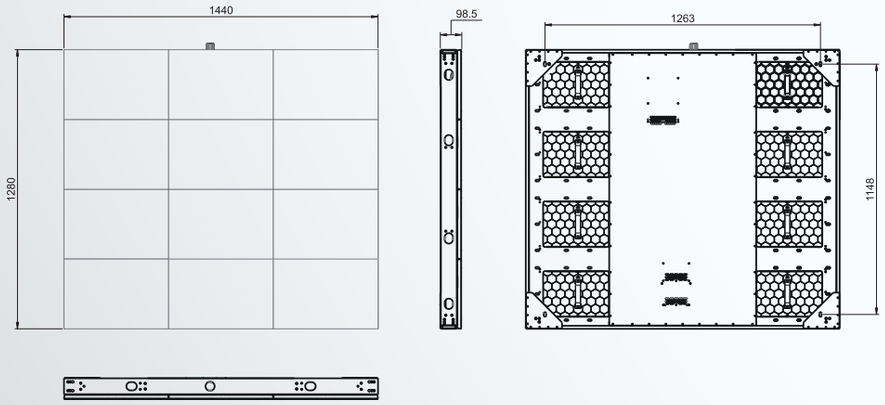


Front and rear access

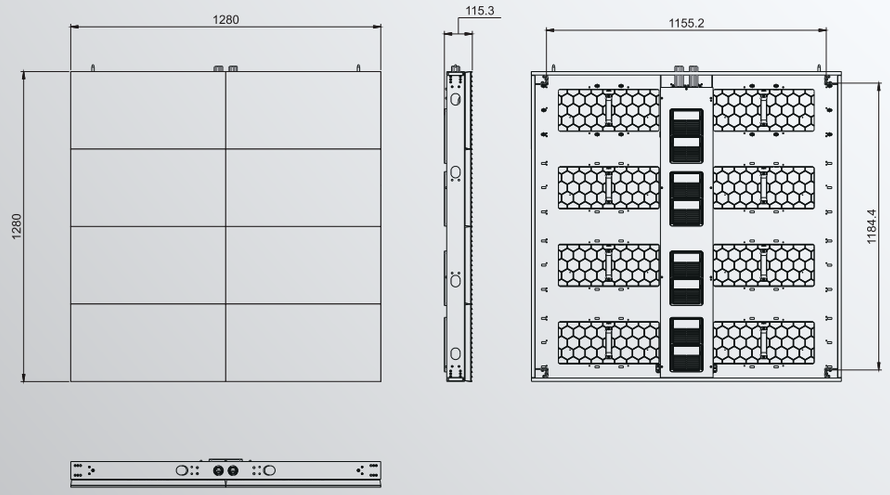
4.2V power voltage technology, less power consumption.

CALLISTO-X
SCHEME

● Front Maintenance

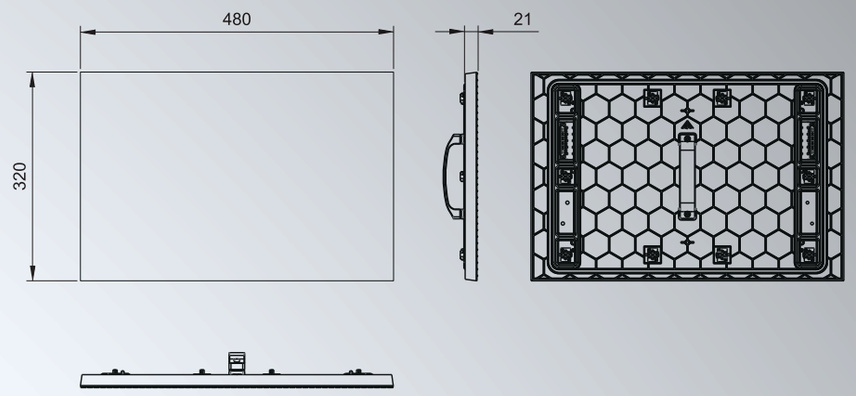


● Back Maintenance

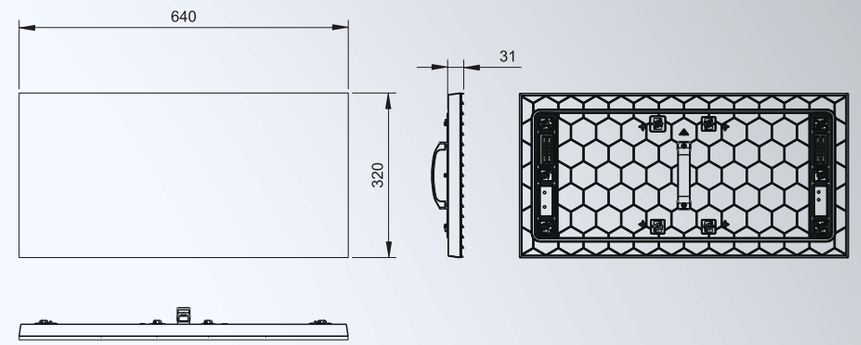


Module Dimension(mm)

● Module:320X480mm (P6.6, P8, P10 front & back maintenance)

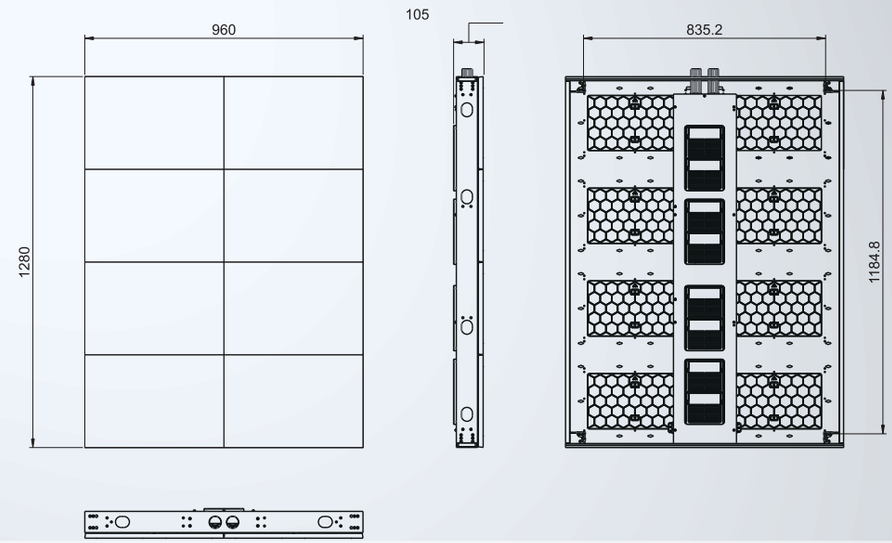


● Module:320X640mm (P16, P20 front & back maintenance)



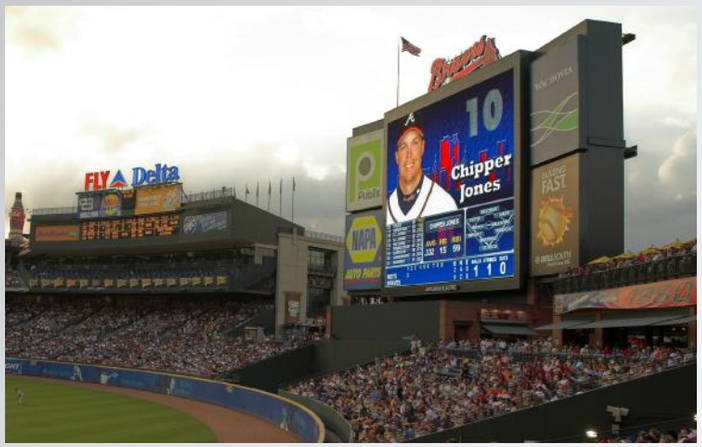
Cabinet Dimension(mm)

● Back Maintenance



APPLICATIONS

STADIUMS



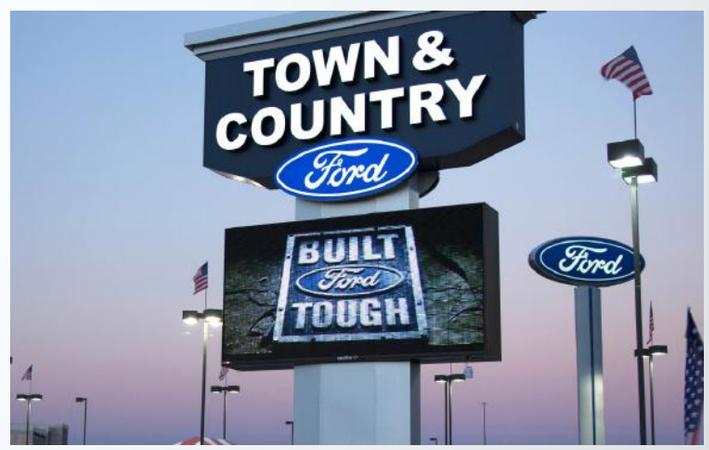
TRAFFIC

SIGNAGE

APPLICATIONS

ARCHITECT

DEALERSHIPS



BUILDING FACADES

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**

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

SPECIFICATIONS

Model	E III M-6.6	E III M-8	E III M-10	E III M-16	E III M-20
Pixel Pitch	6.67mm	8mm	10mm	16mm	20mm
Pixel Configuration	SMD			DIP	
Application	outdoor				
Module Information					
Resolution of Module (HxW)	48x72	40x60	32x48	20x40	16x32
Size of Module (mm) (HxW)	320x480			320x640	
Display Information					
Standard Cabinet Size (mm) (front access)	1280x1440x100			1280x1920x110	
Standard Cabinet Size (mm) (back access)	1280x960x105			1280x1280x115	
Power Consumption Max.(W/m²)	750			480	
Power Consumption Avg.(W/m²)	250			168	
Weight (kg/m²)	25.5				
Brightness (cd/m²)	7500			6500	
Contrast Ratio	5000:1				
Viewing Angle	170°/ 170°				
IP Rating	Front: IP67 Back: IP66				
Grey Level	16Bit				
Frame Frequency (Hz)	60				
Refresh Frequency (Hz)	1920				
Brightness Control	Manual / Auto / Scheduled				
Operating Temp / Humidity	-30℃~60℃ / 10%~90%				

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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