# TV SERIES

BROADCAST COMPATIBLE

HIGH BRIGHTNESS

HIGH CONTRAST

WIDE° WIDE VIEWING ANGLE

24Hr REAL-TIME MONITORING

Ultra HD TV 140''  |  P1.6mm

PLEDCO

PRISTINE IMAGERY

# PRODUCT
# ADVANTAGES

Pledco's P1.6mm UHD LED Display has been designed and developed specifically for office building entrances, conference/meeting rooms and indoor signage. The ultra high definition quality of our LEDs ensures crisp and pristine imagery for maximum exposure. Typically used to replace existing video walls our UHD LED displays provide a powerful lasting impact on viewers.
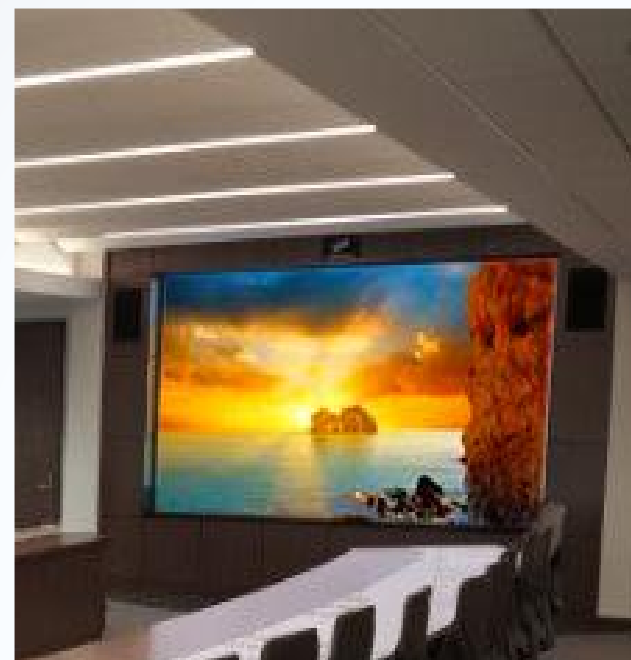
## SPECIAL WALL
## MOUNT BRACKET

Pledco has designed a universal wall mount bracket for the 140" LED Display which enables system integrators to seamlessly install their displays onto any existing wall structure. Simply rig and click the screen directly onto a wall mount and begin displaying content immediately.

### KEY **FEATURES**

- ✅ 5 Year Warranty
- ✅ Ultra-High Definition
- ✅ Multiple Inputs

WALL
**MOUNT**

EASY
**INSTALLATION**

SIMPLE
**MAINTENANCE**

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 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.

## 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 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

# PRODUCT
# FEATURES

BROADCAST COMPATIBLE    HIGH CONTRAST    HIGH BRIGHTNESS    LOW POWER STANDBY MODE    REAL-TIME MONITORING    QUICK INSTALL    FRONT & REAR MAINTENANCE    LIGHT-WEIGHT

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

# SPECIFICATIONS

| Overview | Features | 140" P1.6mm UHD LED Display |
|---|---|---|
| Mechanical | Cabinet Material | Aluminium, Plastic, Stainless Steel |
| | Standard Cabinet Size (WxHxD mm) | 384 x 576 x 92 |
| | Cabinet Weight (KG) | 8 |
| | Tile Size (mm) L x H | 192 x 192 (2x3 per panel) |
| Technical | LED Type | 3 in 1 SMD 1010 True Black |
| | Operating Humidity Range | 0-90% |
| | Greyscale | 20 bit |
| | Refresh Frequency | >4000HZ on MSB and LSB Grey scale and special proprietary cross scanning technology . |
| | White Balance Brightness at 6500K after Calibration | 1500 Nits |
| | Operating Temp. Range | -20 to 65°C |
| | Scanning Mode | 1/16 |
| | Color Temperature | 3200K to 9500K (4 fix Presets and 1 Custom) |
| | Frame Rate Hz | 50 / 60 / 100 / 120 optional 240 and 3D active processing |
| | Typical lifetime | >= 100 000 hrs MTBF 25 000 hrs |
| | Maintainance Acces | Rear (Front Access Optional) |
| | Voltage | 110/220VAC, 50-60HZ |
| | Viewing Angle | >= 170° x 170° |
| Power Consumption | Maximum (per cabinet) | 240 Wh |
| | Average (per cabinet) | 72 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 offering, PLEDCO can turn your display dream into a reality.

| INGRESS PROTECTION | POWER CONSUMPTION | MATERIAL | BRIGHTNESS |
|---|---|---|---|
| IP62 | 240 Wh | Aluminium, Plastic, Stainless Steel | 1500 nits |

# 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

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