

# VICEON SERIES



OUTDOOR DIGITAL SIGNAGE



### PRISTINE IMAGERY

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

### INNOVATION

Fully retractable front & rear panels provide easy access to the LED files.

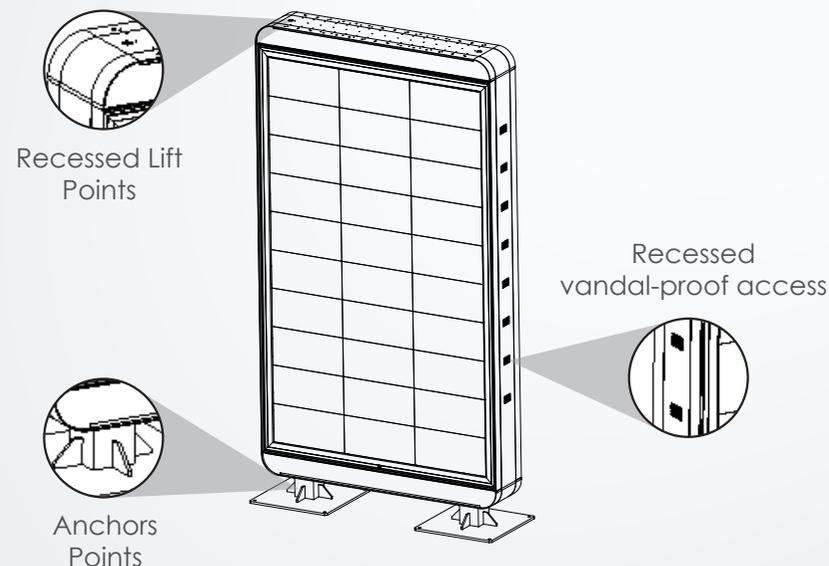
### CUTTING-EDGE TECHNOLOGY

Equipped with PLEDCO's award winning LDU3000 controller. We guarantee a simple, user-friendly experience from the first day or installation and during the entire life-time maintenance.



## PRODUCT FEATURES

Designed and developed as a custom enclosure by an industry leading Canadian engineer. The VIZEON is equipped with automatic brightness technology to overcome any lighting conditions while delivering HIGH definition imagery.



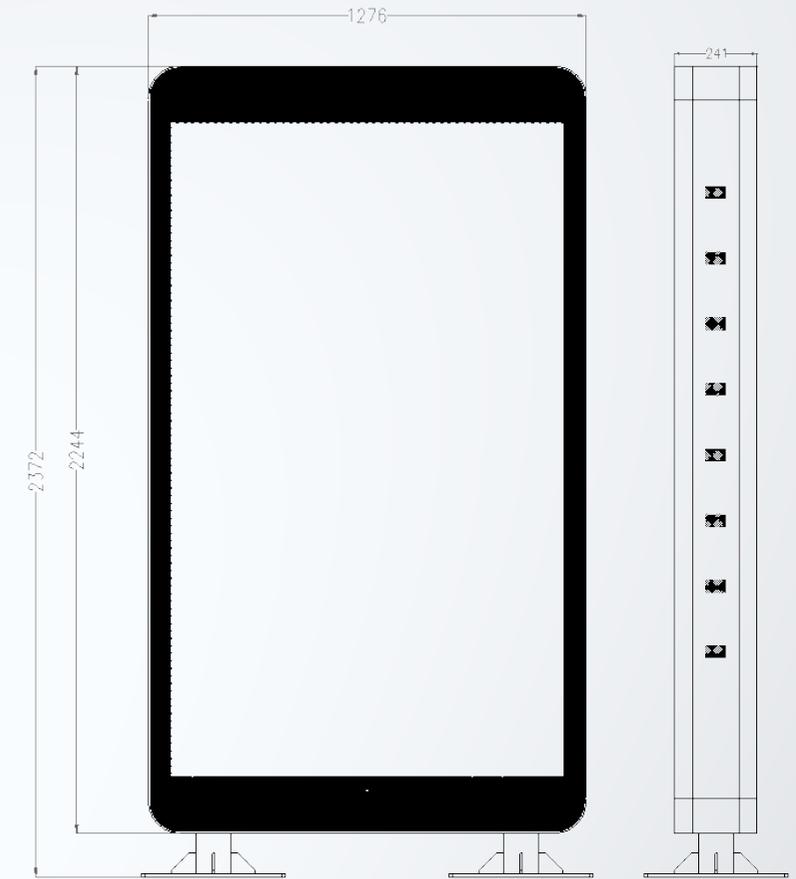
### HIGH BRIGHTNESS

Our patented calibration technology allows the VIZEON to exceed well beyond industry standard brightness levels. The VIZEON is packaged ready to reach 6000 nits and well beyond. Direct sunlight has ZERO affect on the overall displays image visibility thus ensuring a picturesque viewing experience.





- Anti-damage tempered glass & waterproof sealing provides maximum protection for harsh weather or environments.
- Environmentally friendly mechanical design enables this power house to save heaps of energy while displaying high brightness/resolution
- Low operating temperatures, excellent ventilation and zero noise increase the life-time by 65%.
- Vandalism alert protection is monitoring 24/7 to ensure the overall safety of the digital signage.
- Web-based software provides end-users the ability to change content remotely and in real-time.



## FLEXIBLE MOUNTING

We offer a variety of flexible mounting options to accommodate each unique application:



**FLAG MOUNT**  
Ideal for banner-type application overhanging traffic paths.



**WALL MOUNT**  
Ideal for applications with heavy traffic and limited ground spaces.



**PEDESTAL MOUNT**  
Traditional mounting method blends with existing landscaping.



**POLE MOUNT**  
Minimize chance vandalism by raising display above street level.

# PRODUCT ADVANTAGES

While older forms of digital signage had the right idea, today's LED digital signage presents the flexibility the out-of-home advertising industry instinctively needs. People look at signs that change. They enjoy variety and a mixture of messages. The additional ad space LED digital signage offers its advantages over competing technologies which cannot be overlooked.



## Brightness

LED Digital Signage is the only true daylight-viewable solution. We ship our displays at 6,000 nits – 3 to 5 times LCD street furniture brightness for equal or less power. LCD's are typically rated at 700 to 2,000 nits and appear washed out during peak sunshine hours.



## Lifetime

Our LED Digital Signage is designed to last 100,000 hours. That's 3 to 4 times longer operational lifetime than LCD Digital Signage and offers maximum return on investment. In demanding outdoor environments, LCD technology can experience an operational lifetime of 3 years or less.



## Degradation

LEDs do not experience degradations via thermal blackening, especially in outdoor environments, the way LCD technology does. Even indoors, white and continuous LCD content undergoes thermal blackening.



## Ventilation

Our LED Digital Signage's cross-flow ventilation system minimizes power consumption, operates quietly, is condensation resistant and helps extend component life. In contrast, LCDs generally require a high-volume air movement or air conditioning that becomes noticeably distracting to individuals near the totem.



## 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 files 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.<br>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) |  |                      |   |

- 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



KEY FEATURES

# PRODUCT FEATURES



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

## SPECIFICATIONS

| FEATURES   |  |           |           |           |
|--|--|-----------|-----------|-----------|
| Pixel Pitch  | 4.36mm   | 5.33mm    | 6mm       | 8mm       |
| Pixel Configuration                                | 3 in 1   |           |           |           |
| Application  | OUTDOOR  |           |           |           |
| MODULE INFORMATION                                 |  |           |           |           |
| Resolution of Module (W X H)                       | 88 x 44  | 72 x 36   | 64 x 32   | 48 x 24   |
| Size of Module (mm)                                | 192 X 384  |           |           |           |
| CABINET INFORMATION                                |  |           |           |           |
| Resolution of type a (70") pixel(W X H) Cabinet A  | 220 x 352  | 180 x 288 | 160 x 256 | 120 x 192 |
| Resolution of type a (88") pixel(W X H) Cabinet B  | 264 x 440  | 210 x 360 | 192 x 320 | 144 x 240 |
| Resolution of type a (120") pixel(W X H) Cabinet C | 352 x 660  | 288 x 504 | 488 X 256 | 192 x 336 |
| Display Area(mm) (W X H)                           | Cabinet A: 960x1536; Cabinet B: 1152x1920; Cabinet C: 2688x1536                          |           |           |           |
| Display types                                      | Single side/ Double sides/ one side with light block and the other side with LED display |           |           |           |
| DISPLAY INFORMATION                                |  |           |           |           |
| Power Consumption(W/h)                             | 1085   |           |           |           |
| Brightness (cd/ m2)                                | 6000   |           |           |           |
| Viewing Angle                                      | 140° / 120°  |           |           |           |
| Gray Level   | 14 bit   |           |           |           |
| Frame Frequency(Hz)                                | >60  |           |           |           |
| Refresh rate (Hz)                                  | >400   |           |           |           |
| Brightness Control                                 | 100  |           |           |           |
| Nominal LED Working Life                           | Up to 100,000 hours  |           |           |           |

\*Detailed specification sheet available upon request.



## 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.



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