



ARIEL
series

WIND THROUGH TECHNOLOGY


PLEDCO

ARIEL

Manufactured for a diverse set of applications. The multi tasking **ARIEL** is an ideal choice for indoor & outdoor fixed applications or taken to the high paced touring and rental markets. Our **ARIEL** Series is network ready, and in conjunction with our **Rig & Click** technology, allows **TOOL-FREE** installation. This in turn, allows for decreased installation time and reduce operational costs.



Mechanical **COMPATIBILITY**

The **ARIEL** is able to integrate with any Pro Tour Series cabinets as well as our LDU 8000 and 2800 controllers.

Heat **DISSIPATION**

We use natural convection in our Heat Sink technology, thus creating no noise emissions and low maintenance costs.

STRONG and rigid

Max. hanging capacity is 20 cabinets high (TUV certified)

LIGHTWEIGHT materials

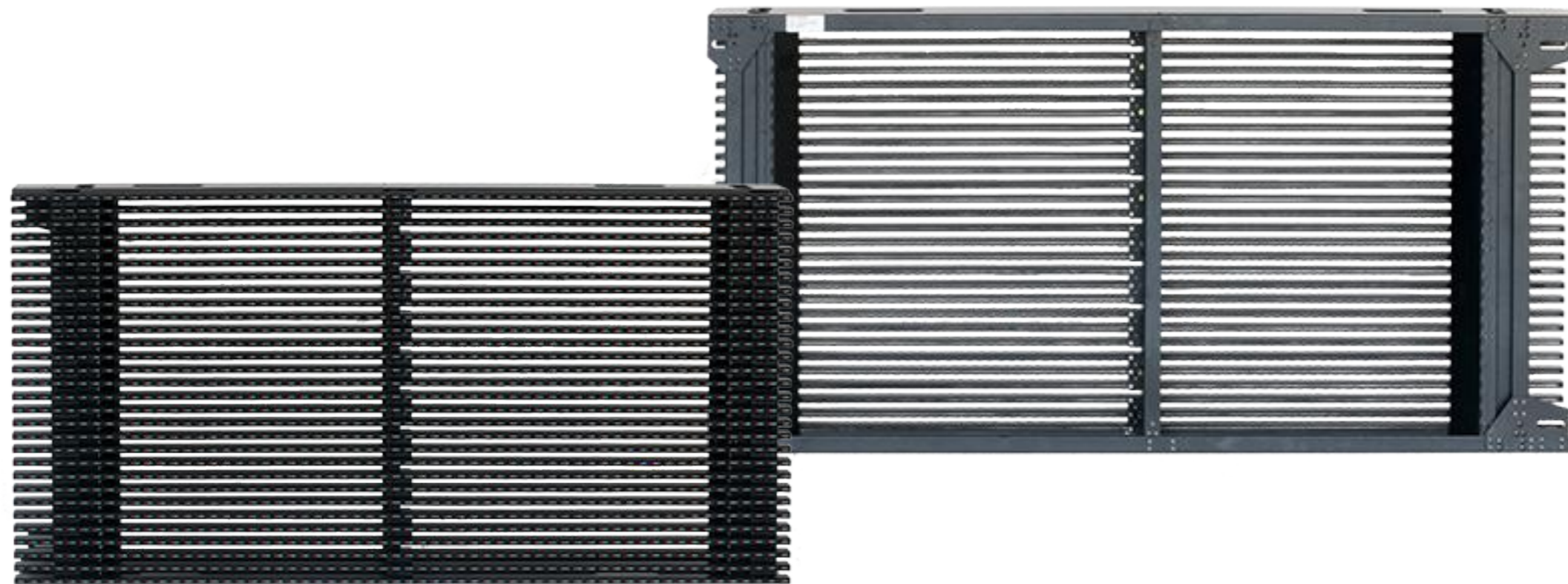
16kg. per cabinet

QUICK Setup

With our patented **Rig & Click** technology, you can install and stack cabinets without any tools. This function is crucial for the touring market.

MODULAR Design

Slim and compact sized cabinets; 1500 (H) x 1280 (W)mm



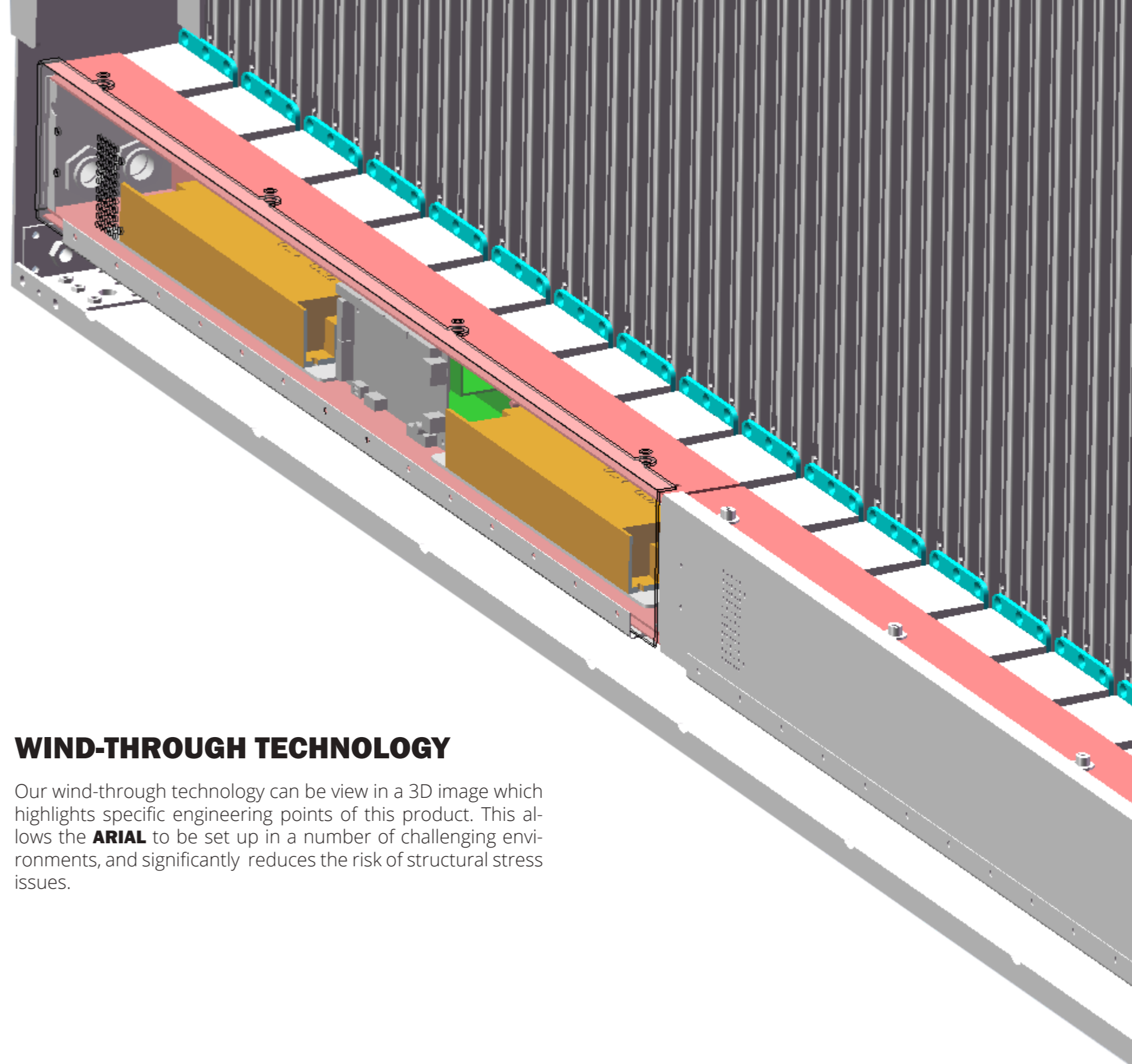
FLEXIBILITY

Our revolutionary design makes the **ARIEL** one of the most diverse products on the market. The **ARIEL** can be deployed in a perfect circle, or as an LED block. In addition being rated at IP66 the **ARIEL** is a perfect option for your outdoor fixed or rental application.



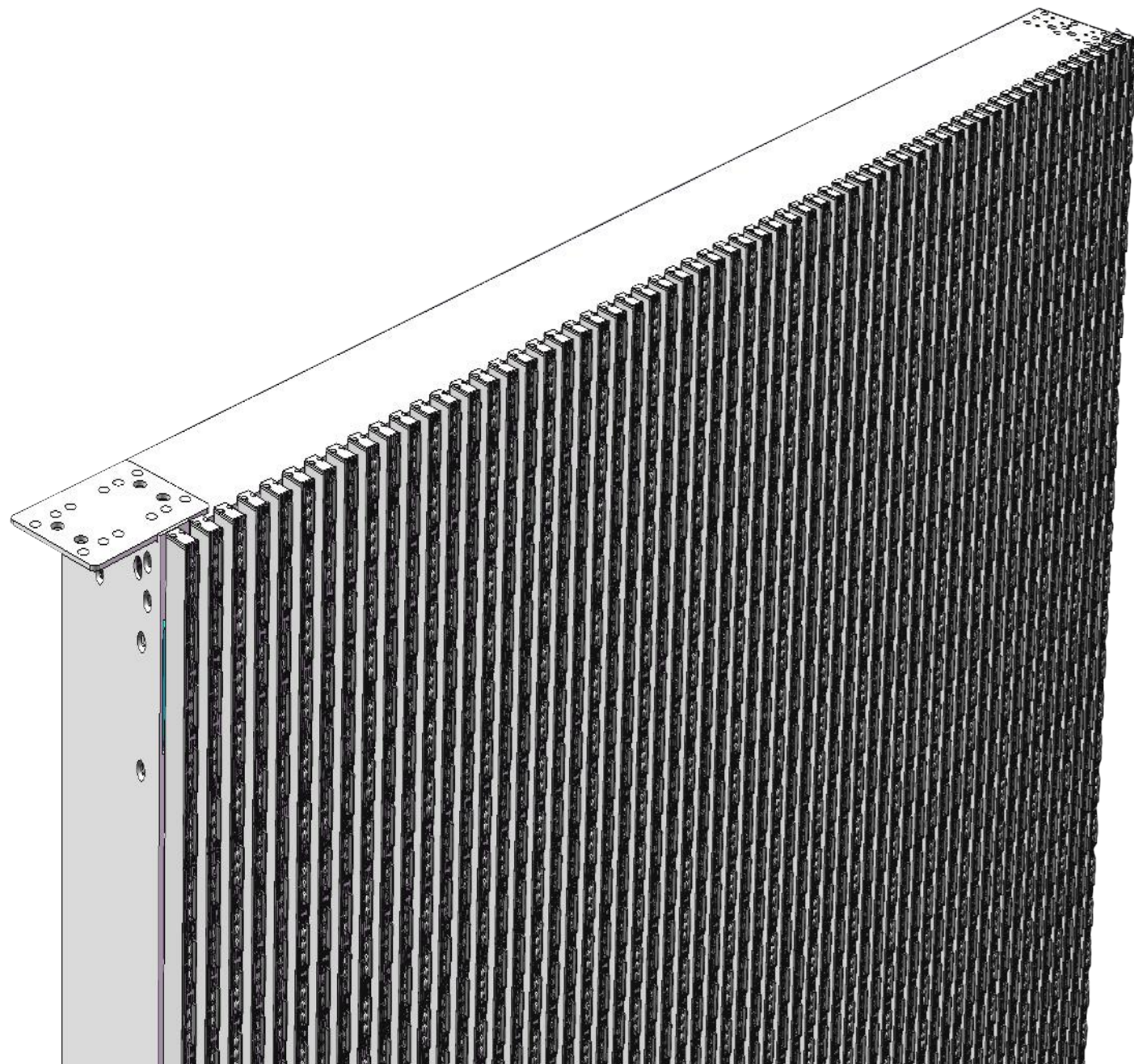
ARIEL

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



WIND-THROUGH TECHNOLOGY

Our wind-through technology can be view in a 3D image which highlights specific engineering points of this product. This allows the **ARIAL** to be set up in a number of challenging environments, and significantly reduces the risk of structural stress issues.

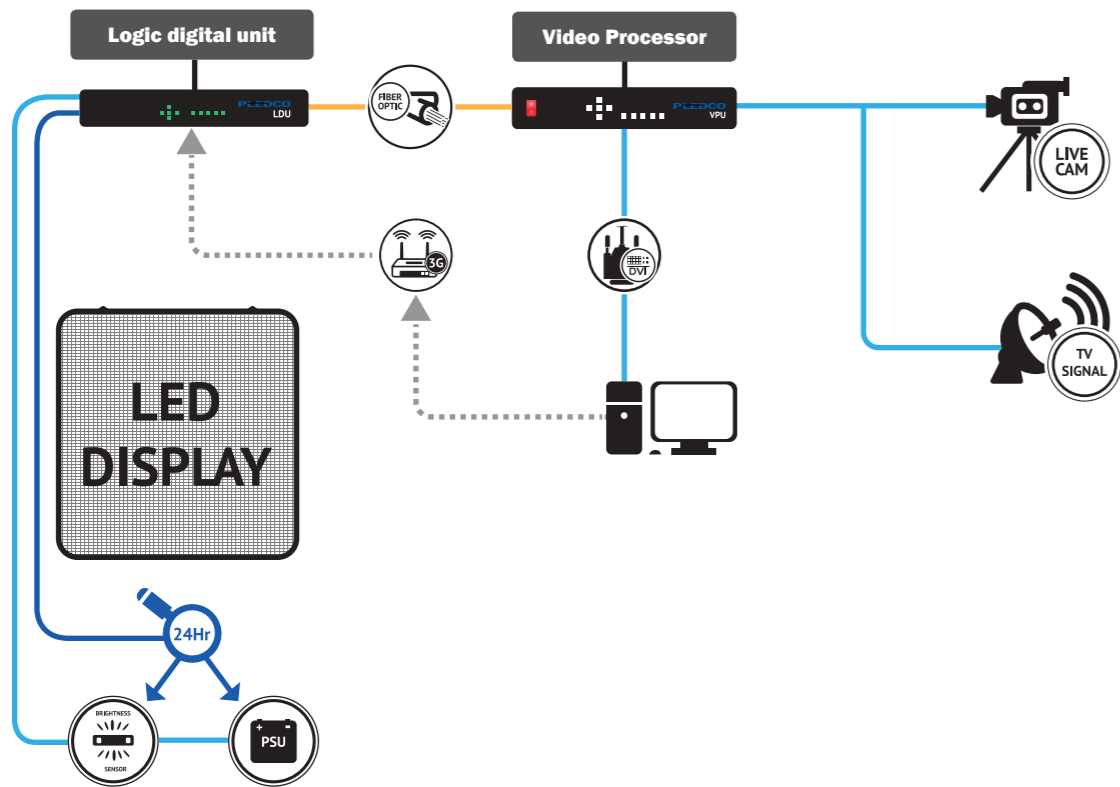


CONTROL SYSTEM

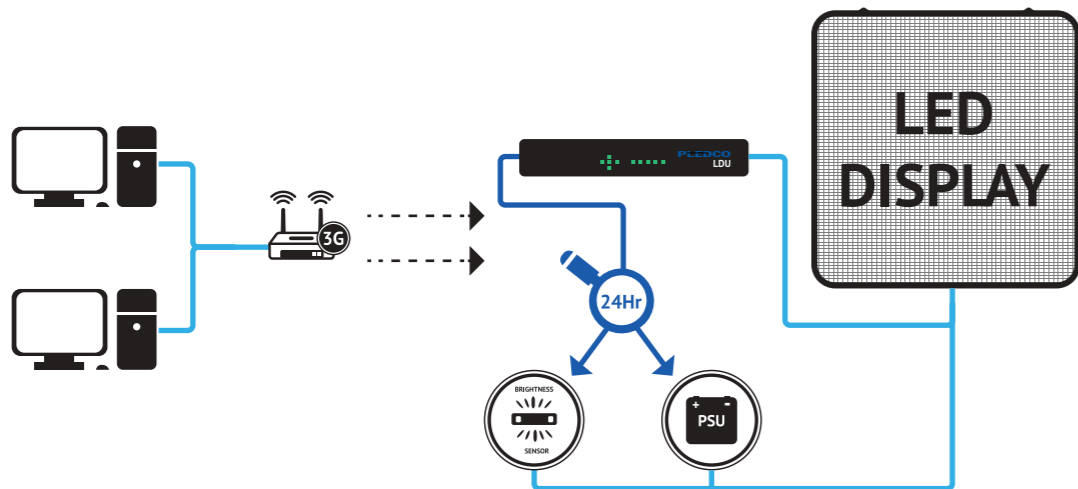
Our Control System can run on-line (synchronous) as well as off-line (asynchronous). The displays can be accessed, controlled as well as monitored online thanks to our unique, reliable and stable Linux-based platform.



The Synchronous Diagram



The Asynchronous Diagram

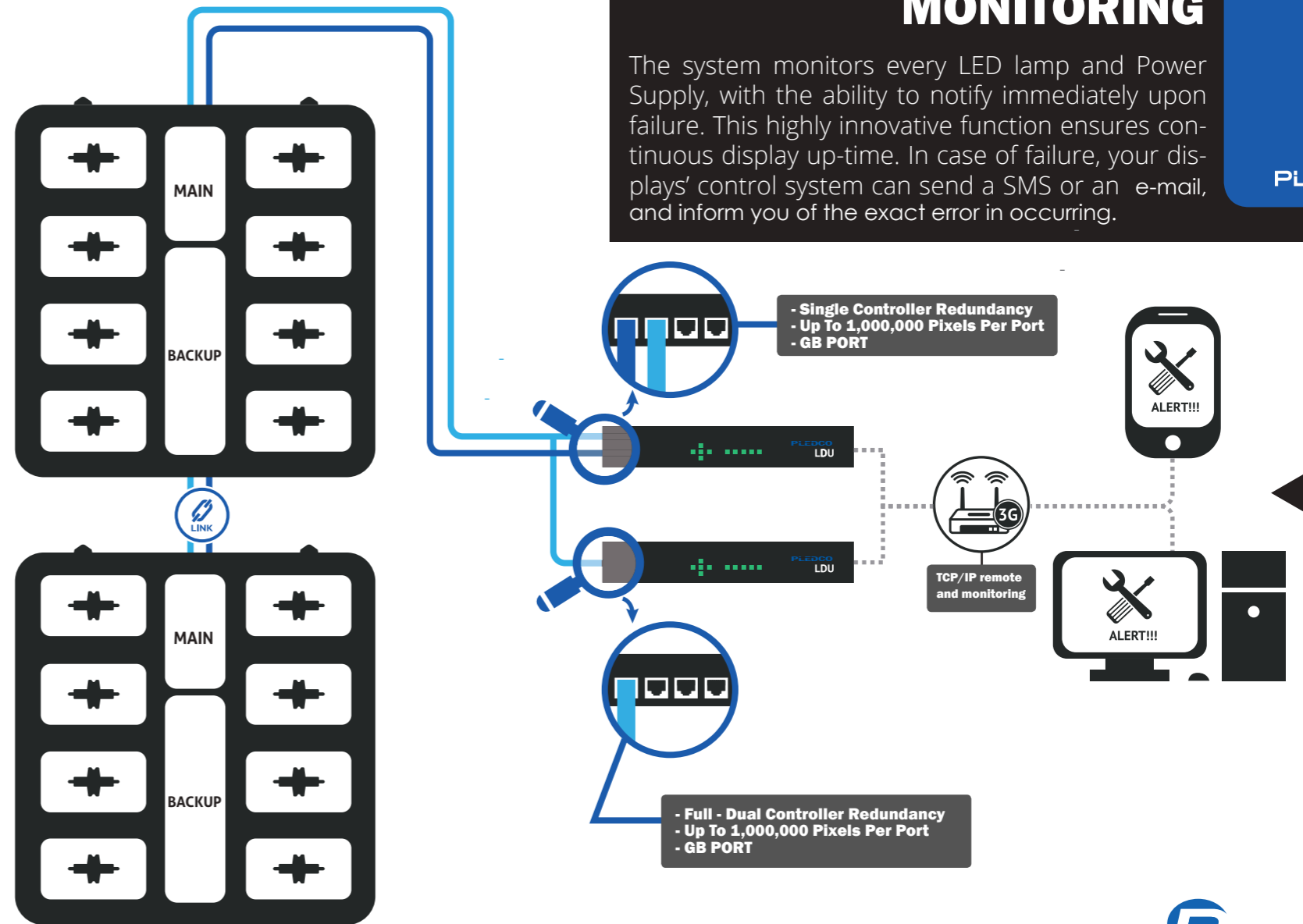


DATA, POWER BACKUP AND MONITORING

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.



Data & power Monitoring Diagram





PLEDCO HD DISPLAY

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

SYSTEM

CALIBRATION

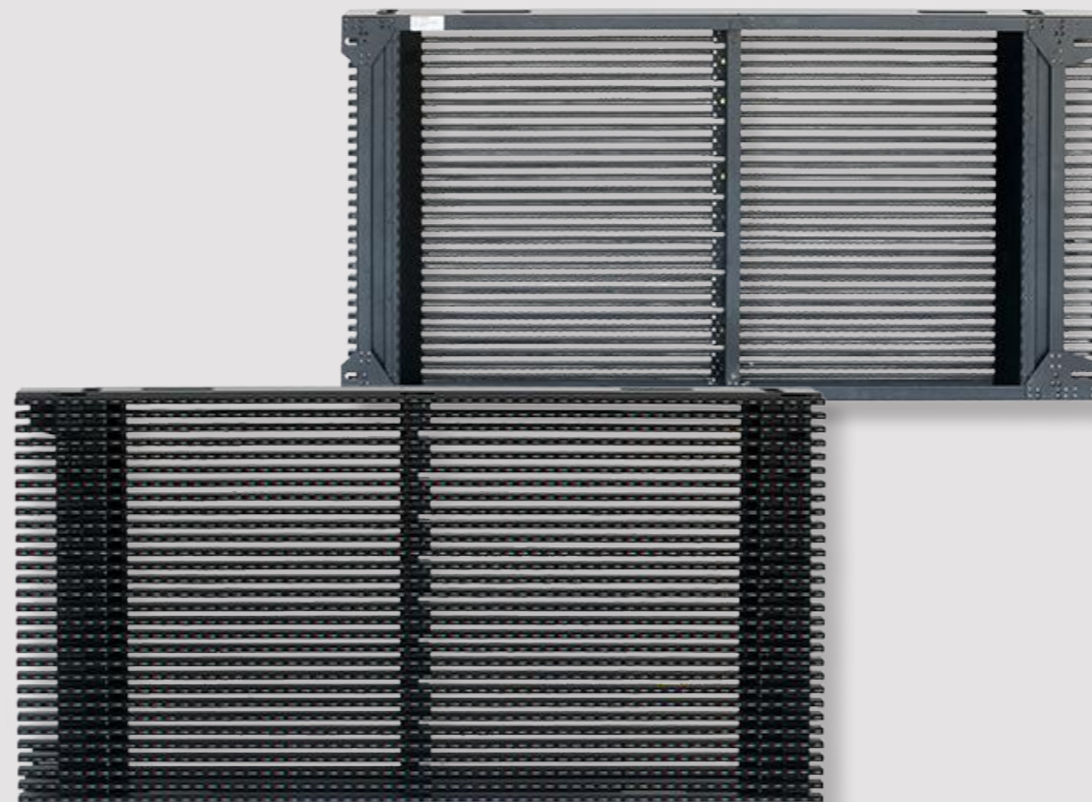
All X & Y coordinates are kept in our client project database. When you order new tiles for an existing project we retrieve the original X & Y coordinates. This ensures during calibration all colors are matched properly. Typically in video mode you will not see any color differences, however when white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



LED CALIBRATION

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

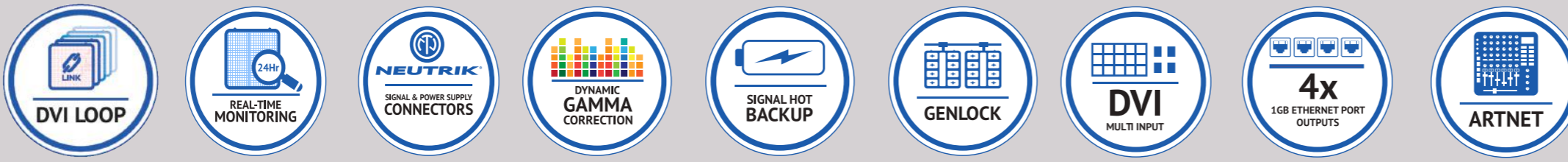
If a single pixel fails, the data will be read-out from the EEPROM and then re-written to the replacement chip. After this process the brightness value is calibrated again to ensure the uniformity of the entire system, thus providing easy and fast maintainability.

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.

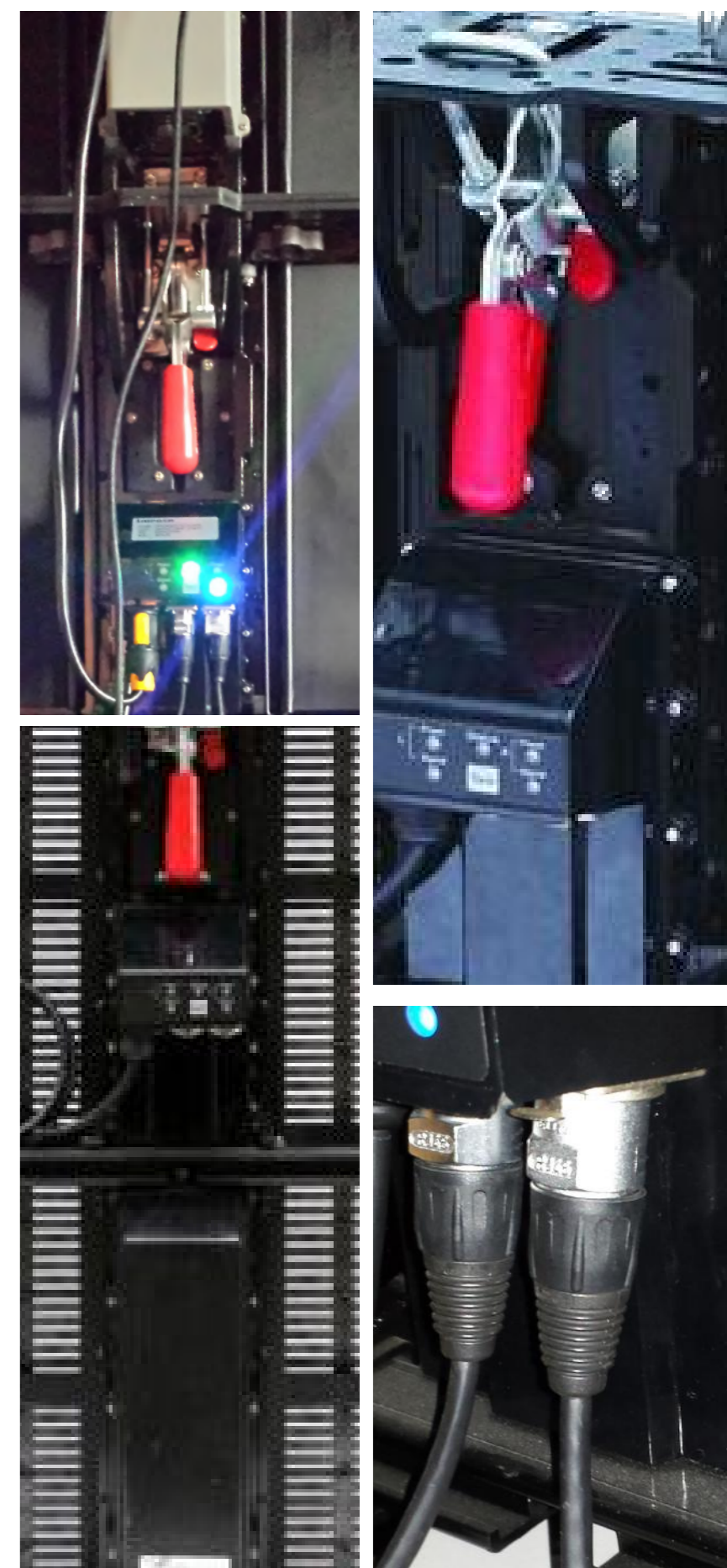
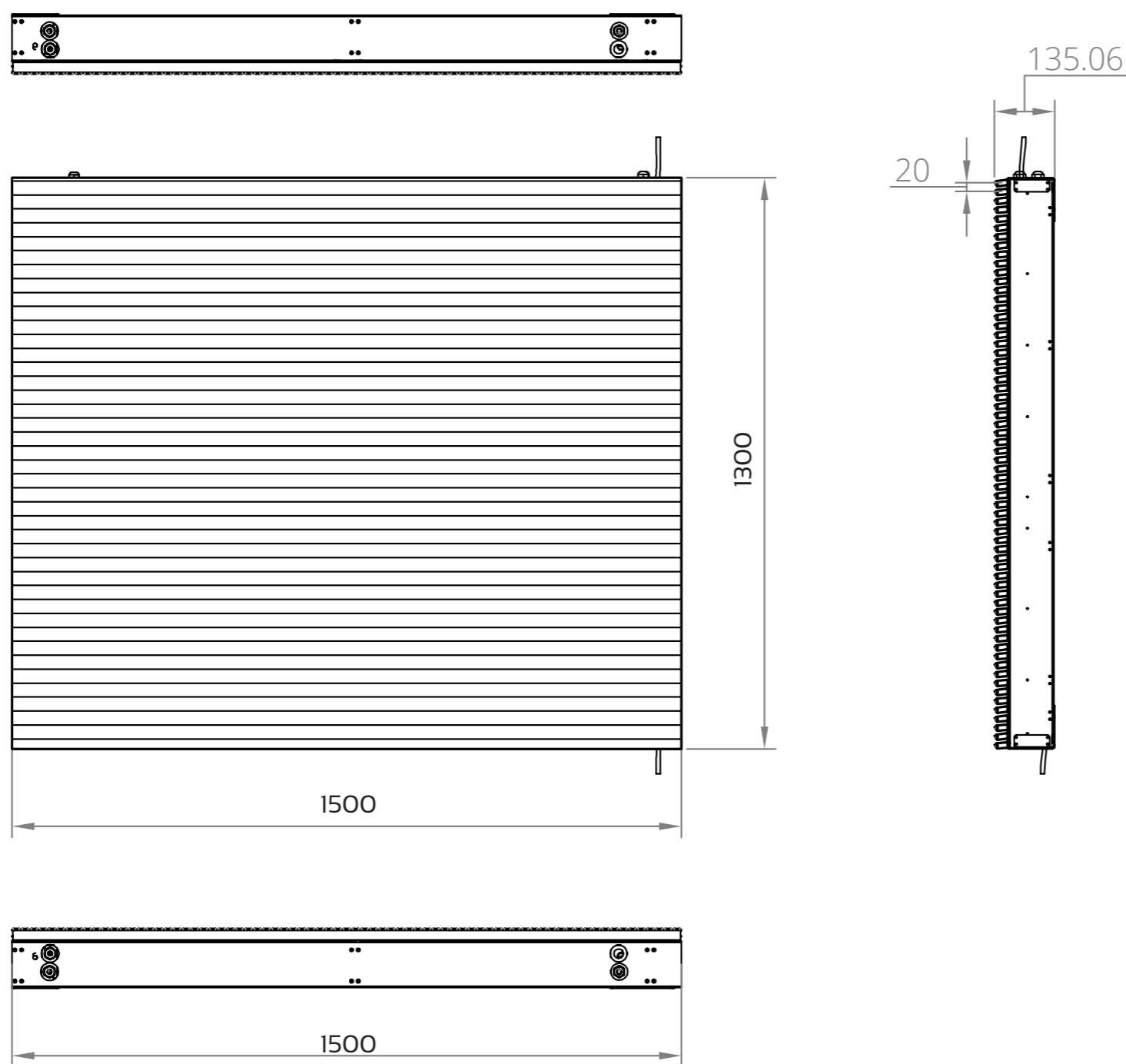


PRODUCT FEATURES

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



ARIEL DIMENSION & SPECIFICATION



FEATURES	MODELS		
Pixel Pitch	25mm	31.25mm	50mm
Cabinet Material	1R1G1B	1R1G1B	3R3G3B
Application	Outdoor		
Size (H X W X D mm)	64x1500x69	1000X42X12.5 or 1500X42X12.5	1500X27X30
Resolution (pixel/m ²)	1600	1024	400
Power consumption of cabinet (max W)	45	15	30
Brightness(cd/m ²)	5000		
Directivity Viewing angle	110°/ 45°	90°/ 40°	110°/ 45°
Viewing angle	160/55	140/50	160/55
Gray level	16bit		
Power input	Ac110v/220v±10%		
Refresh Frequency (Hz)	>3000		
IP rating	IP65		

*Detailed specification sheet available upon request.

THE FUTURE of LED technology

Rental and touring LED cabinets require an extensive amount of engineering. Especially for high wind prone regions, a wind through rental product is a must. Our ARIEL has been specially designed to put the end-users mind at ease.



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 downtime 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 LTD.
2/F Flat Roof
167 Lockhart Road
Hong Kong

Worldwide: 1-855-717-2606
info@pledco.com
www.pledco.com

