



PERIMETER series
Collapsible Display **PLEDCO**

PRODUCT DESIGN

PLEDCO's Perimeter Series is a combination of two 960mm x 768mm cabinets (figure 1) from our RENTAL Series. We designed and developed both a collapsible (figure 2). Finally, our patented protective rubber cushion integrates seamlessly on top of the structure to guarantee maximum safety.



(FIGURE 1)



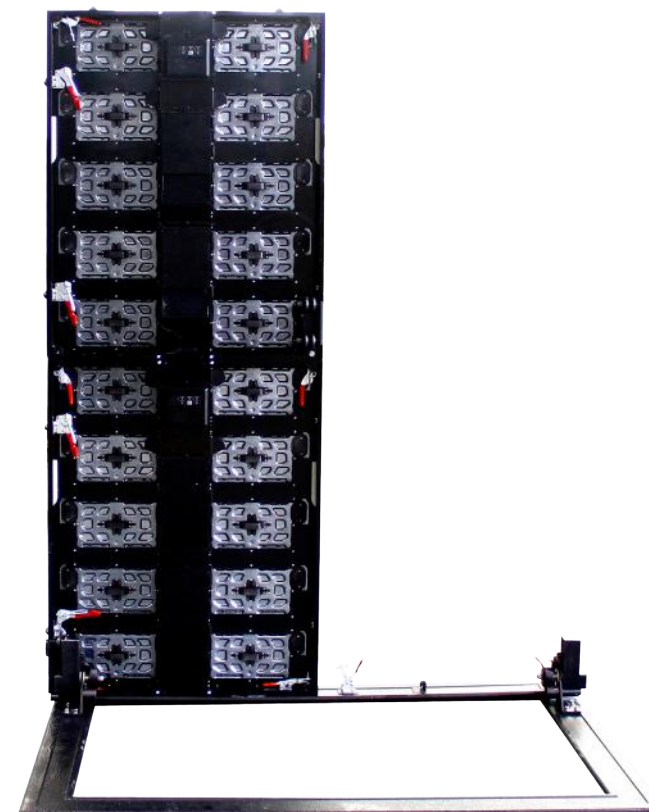
Remove the top cover cushion



Unlock the middle rig to unbind the two panels



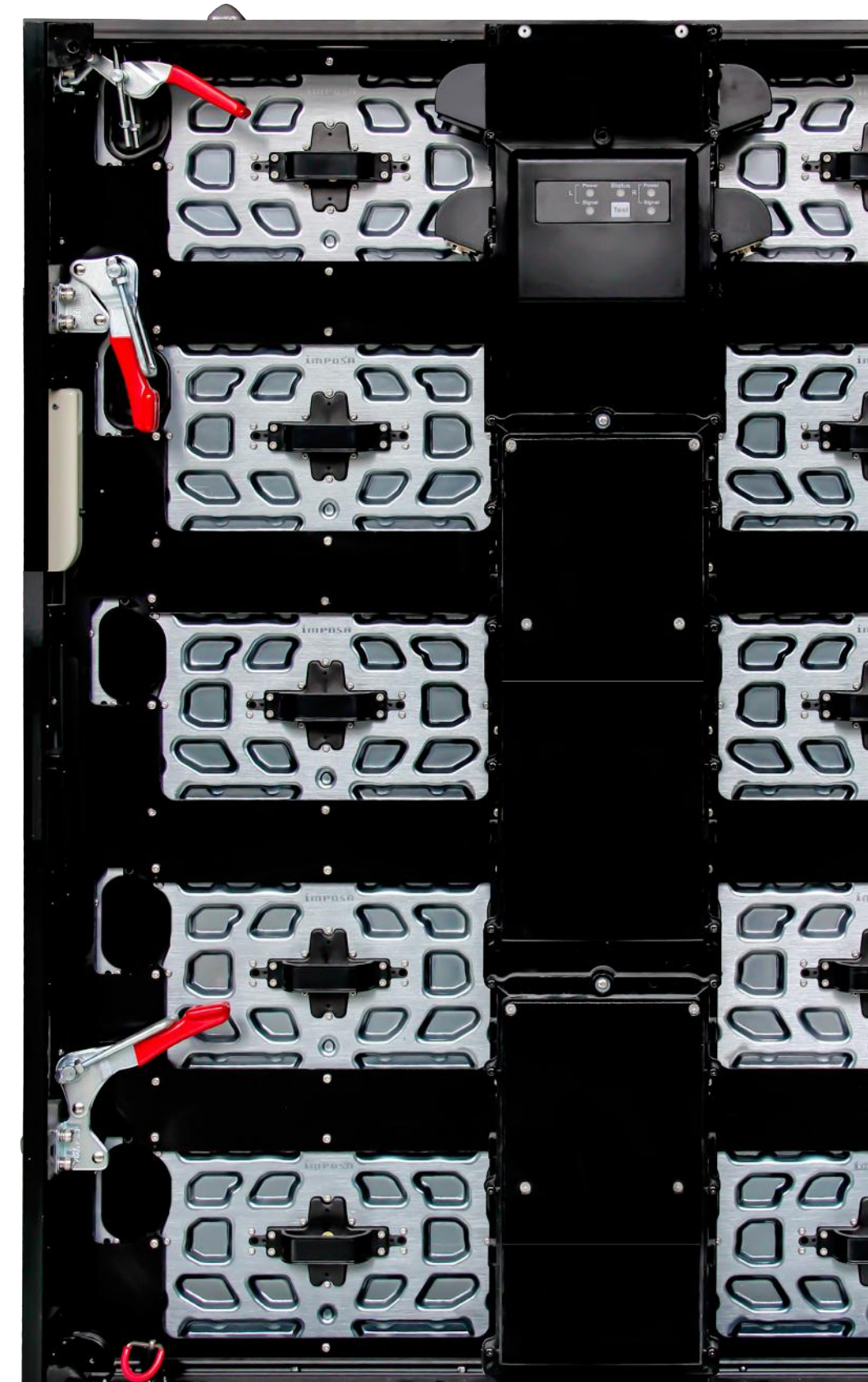
Unlock the bottom rig



(FIGURE 2)

“Ability to integrate into a multitude of applications in a matter of minutes”

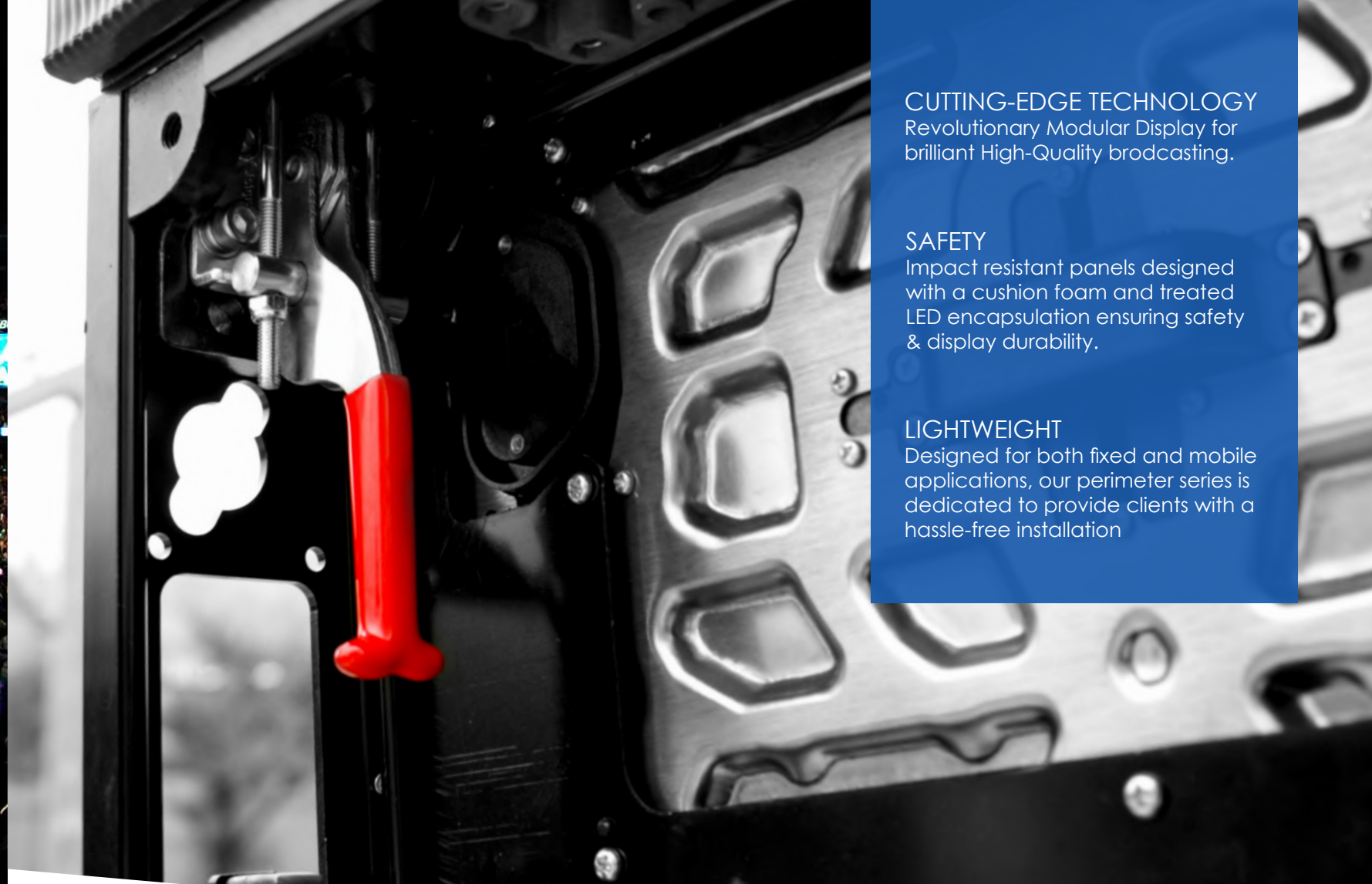
The main benefit of this cabinet is its ability to integrate into a multitude of applications in a matter of minutes. The end user can decide to use the Perimeter Series as a fixed or rental screen. This cabinet has been specifically designed to be light-weight and rugged thus labeling the product as the only all-in-one solution on the market.





PRODUCT ADVANTAGES

PLEDCO's Perimeter Series is a combination of two 960mm x 768mm cabinets from our Callisto Series. We designed and developed both a collapsible and fixed base to secure the cabinets firmly. Finally, our patented protective rubber cushion integrates seamlessly on top of the structure to guarantee maximum safety.



CUTTING-EDGE TECHNOLOGY
Revolutionary Modular Display for brilliant High-Quality broadcasting.

SAFETY
Impact resistant panels designed with a cushion foam and treated LED encapsulation ensuring safety & display durability.

LIGHTWEIGHT
Designed for both fixed and mobile applications, our perimeter series is dedicated to provide clients with a hassle-free installation

FRONT & BACK MAINTAINANCE

Users can easily repair panels without compromising the location of the panel's installation.

FAST INSTALLATION

Our zero tool panels have been designed for time sensitive events. The rig and click panel connection and adjustable hanging bracket create a seamless display.

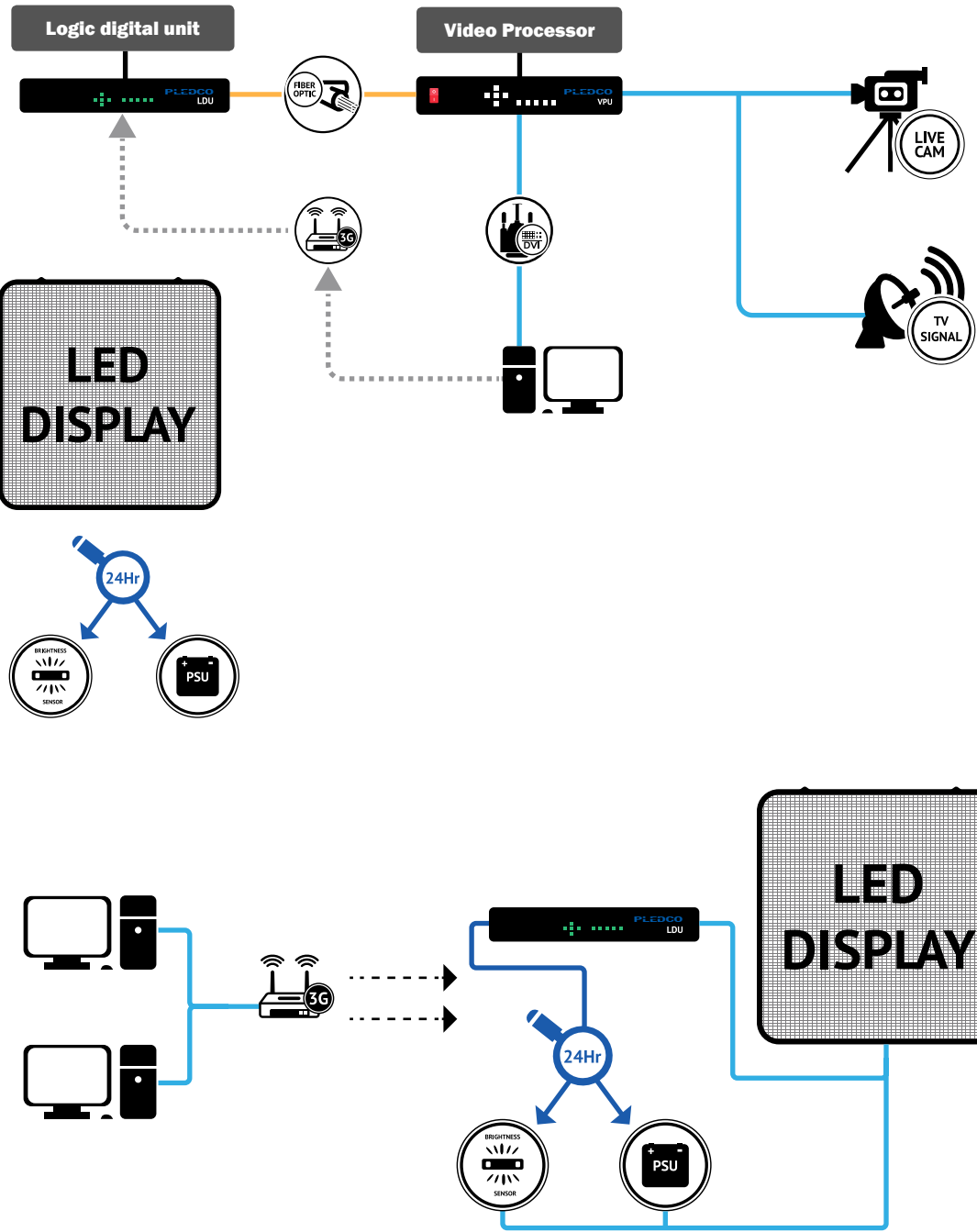
FULL TOURING RENTAL

The main benefit of this cabinet is its ability to integrate into a multitude of applications. The end user can decide to use the Perimeter Series as a fixed or rental screen. This cabinet has been specifically designed to be light-weight and rugged thus labeling the product as the only all-in-one solution on the market.

CONTROL SYSTEM

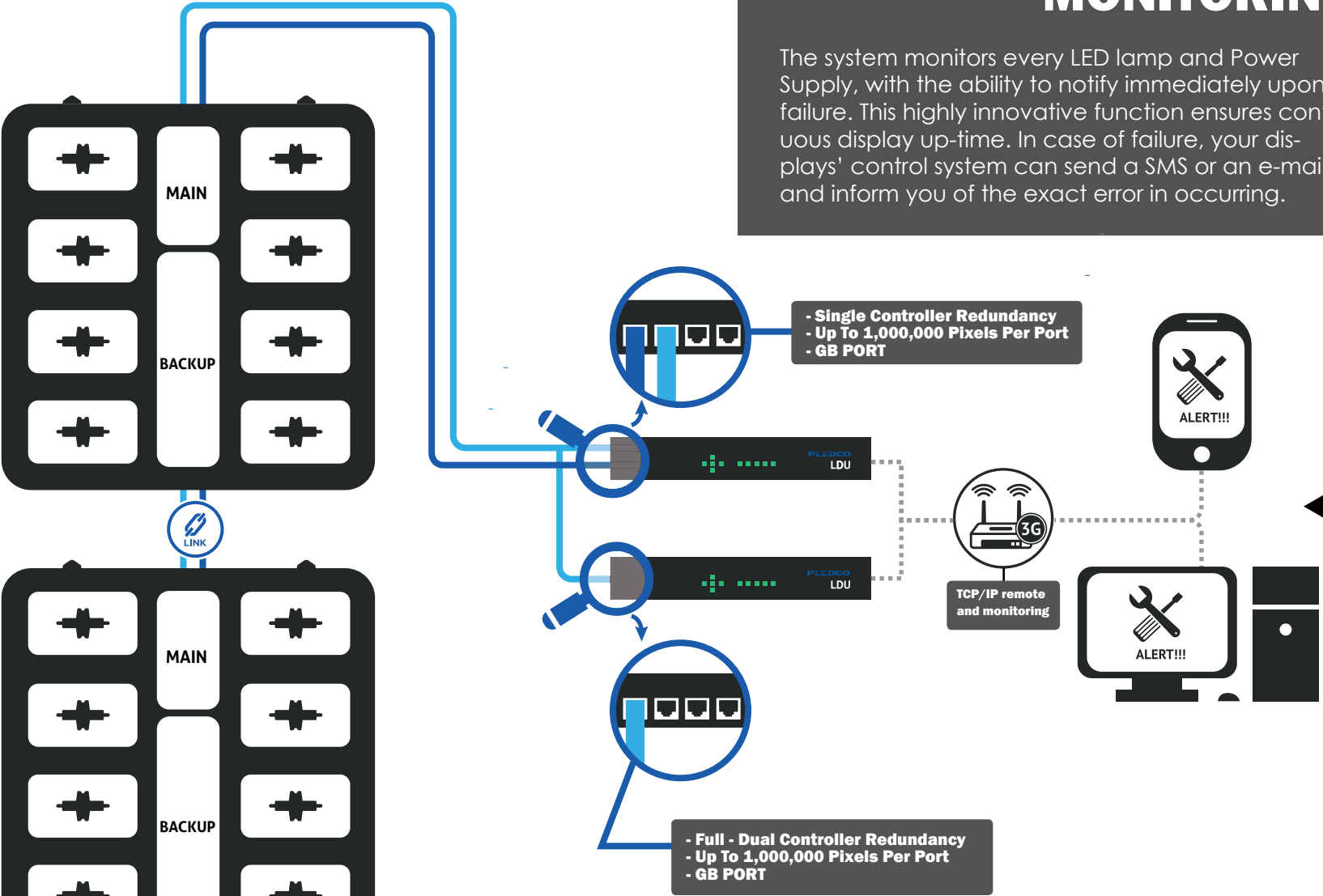
Our Control System can run on-line (synchronous) as well as off-line (asynchronous). The displays can be accessed, controlled as well as monitored online thanks to our unique, reliable and stable Linux-based platform.

The Synchronous Diagram



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

The Asynchronous Diagram



System **CALIBRATION**

X & Y color coordinates are kept safely in each client's project database. When ordering new replacement tiles for any existing project we are able to retrieve the data and recalibrate with the original coordinates. This procedure ensures that the new replacement tiles will match existing tiles, and provide a seamless display once installed.

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**

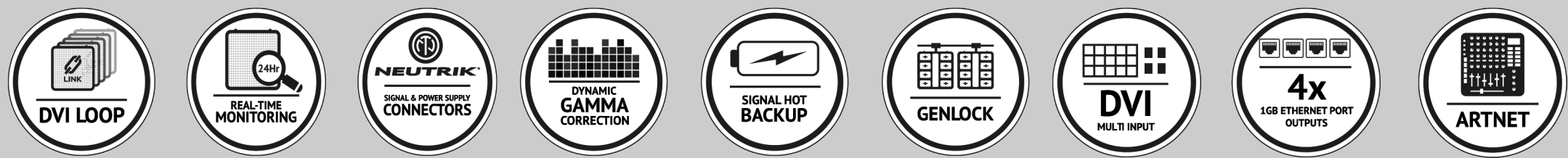
If a single pixel fails, the data will be read-out from the EEPROM and then re-wrote to the replacement chip. After this process the brightness value is calibrated again to ensure the uniformity of the entire system, thus providing easy and fast maintainability.

At the same time, the system records every displays' initial calibration data to avoid 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 PERIMETER SERIES is equipped with automatic brightness technology to overcome any lighting conditions while delivering HD imagery.





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, designers and a robust product line. PLEDCO can turn your display dream into a reality.

PERIMETER SPECIFICATIONS

OVERVIEW	FEATURES		OUTDOOR SMD					OUTDOOR DIP				
MECHANICAL	Model Name	EIII 6mm	EIII 8mm	EIII 10mm	"EIII 10mm HD4K"	EIII 12mm	EIII 16mm	EII 10mm	EII 13mm	EII 16mm	EII 20mm	EII 26mm
	Structure type	EIII	EIII	EIII	EIII	EII	EII	EII	EII	EII	EII	EII
	Physical pitch	6.41mm	8mm	10.6mm	10.3mm	12mm	16mm	10.6mm	13.3mm	16mm	20mm	26.6mm
	Model Number	VFO6.4BLT	VFO8LT	VFO10.6LT	VFO10.3LTS	VFO12LT	VFO16LT	VFO10.6DLT	VFO13.3DLT	VFO16DLT	VFO20DLT	VFO26.6DLT
	Optional structure ref Drawing	BSxVFOxxxPL EIII / FSxVFOxxxPL EIII / RxVFOxxxPLEIII						BSxVFOxxxPL EII / FSxVFOxxxPL EII / RxVFOxxxPLEII				
	Cabinet Material	ALUMINUM, PLASTIC, STAINLESS STEEL										
	Cabinet Surface (SQM)	0.589			0.436	0.589		0.6144				
	Standard Cabinet Size (WxHxD mm)	768 x 768 x 124			660.4 x 660.4 x 124		768 x 768 x 124			640 x 960 x 124		
	Cabinet Resolution WxH (pixels)	156 X 156	96 X 96	72 X 72	64 X 64		48 x 48	72 X 72	48 x 72	40 x 60	32 x 48	24 x 36
	Cabinet Weight (KG)	24			18	24			25			
	Cabinet Flatness (mm)	<= 0.3										
	Pixel Density (SQM)	24336	15625	8789	9425	6944	3906	8789	5625	3906	2500	1406
	Tile Size (mm) L x H	384 x 192 (2 x 4 per panel)			330.2 x 165.1 (2 x 4 per panel)		384 x 192 (2 x 4 per panel)			320 x 320 (2 x 4 per panel)		
	Tile Resolution (pixels)	60 x 30	48 x 24	36 x 18	32 X 16		24 x 12	36 x 18	24 x 24	20 x 20	16 x 16	12 x12
	Pitch Tolerance	0.05mm										
IP Grade	Tiles IP67 PSU IP54 (optional IP65 PSU)											
TECHNICAL	Voltage	110/220VAC, 50-60HZ										
	LED Type	3 in 1 SMD 3535 True Black	3 in 1 SMD 3535 Black Body (Optional led available)					DIP 346				
	Power Supply Unit	x2 - 320W Meanwell (TDK Lamda optional)										
	Power Supply Redundancy	Optional on E3 and E2 structure only (Dynamic Brigtness Management)										
	Data Line Redundancy	Yes (Real Time Watchdog Monitoring) data and fault log and pixel check function optional										
	AV-input	DVI Dual link / HDMI 1.4 - HD4K optional on LDU9000										
	Gamma	Dynamic Gama DUal Map 1.8 2.0 2.1 2.2 and custom on independant color										
	Operating Humidity Range	0-90%										
	Greyscale	16 bit (Optional 20 bit for HD4K)										
	Refresh Frequency	>4000HZ on MSB and LSB Grey scale and special proprietary cross scanning technology .										
	Brightness Control	100 levels by manual control or scheduler / 256 levels by light sensor (Optionnal UDP command for external control throught TCPIP)										
	White Balance Brightness at 6500K after Calibration	5500 Nits	6500 Nits (optional 7500 nits)		8000 Nits	6500 Nits (optional 7500 nits)						
	Operating Temp. Range	-35 to 65 °C										
	Scanning Mode	1/2 Cross Scan			Static Drive	1/2 Cross Scan						
	Color Temperature	3200K to 9500K (4 fix Presets and 1 Custom)										
	Dot Brightness Calibration	Yes (Using Radian Camera, Stored In Tiles with auto calibration for easy maintenance) Real time user selectable HD2K or HD4K color space. Selft user tiles color space ajustement without calibration camera.										
	Brightness Uniformity	+-2%										
	Color Calibration	Patented eclusive HD2K or HD4K user selectable with calibration stored in tiles.										
	Chroma Uniformity	+- 0.002 (Cx, Cy)										
	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 Acces Optional)										
	Viewing Angle	>= 170° x 170° (H +75.5 / -75.5 and +V75.5 / - 75.5)						>= 160° x 70° (H +80 / -80 and +V37.5 / - 37.5) Optional V bending				
	"Directivity Angle (viewing angle at 50% brightness)"	140° x 140°						>= 140° x 55° (H +70 / -70 and +V27.5 / - 27.5) Optional V bending				
	LED Binning Wavelenght	+/-1.5Nm										
	LED Binning Brightness	+/-2.5%										
	MAX. Thermal load BTU (per cabinet)	663			490	663		464				
	Avg. Thermal load BTU (per cabinet)	211			164	211		155				
	LDU2800-8000 (Video encoder)	2-4 Gigabyte output with full redundancy between controllers , 20bit color processing. Optional Offline player built in, NTCIP, Artnet										
	Control Sytem	Maximum (per cabinet)	650 Wh			552 Wh	650 Wh		455 Wh			
	Power Consumption	Average (per cabinet)	250 Wh			184 Wh	250 Wh		180 Wh			

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 environment, 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 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 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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