



# Extremely Low Heat Release Rate Indoor LED Display Solution

## Phoenix Series - P4.36 / 5.33 / 6 (mm)

A high-performance indoor LED display solution, the Phoenix Series has been specially designed for applications such as; airports, hospitals, train stations, major retailers and many other. Designed entirely with aluminum, integrated with an external VDC power supply and a minimal amount of plastic within the LEDs. The Phoenix Series had been tested, approved and certified by SGS for CA TB133 Heat Release Rate.

### Key Features

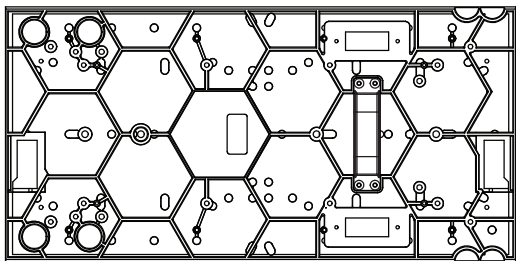
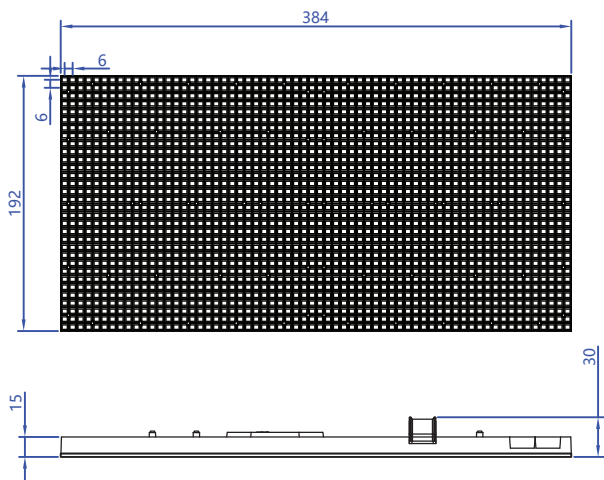
- Full Power & Data Redundancy w/ zero down-time
- Advanced power & data real-time monitoring
- Pixel check detection & automated notifications sent to any service centre
- Factory delivered 100% with calibration standards REC-709 & DCI-P3 as optional
- State of the art calibration technology compatible with Radiant & Color gamut
- Calibration data stored directly on LED modules
- HD Broadcasting compatible via ultra high refresh rate technology
- +10 Years spare parts availability
- 6 Year warranty and optional 9 Year warranty upgrade
- Dynamic gamma & Dynamic current drive technology
- Scanning mode at +4000Hz using the lowest current drive possible to ensure minimal brightness decrease
- High-end components integrated using Meanwell PSUs, Macroblock driver and Nichia or Osram LEDs

### Model Numbers

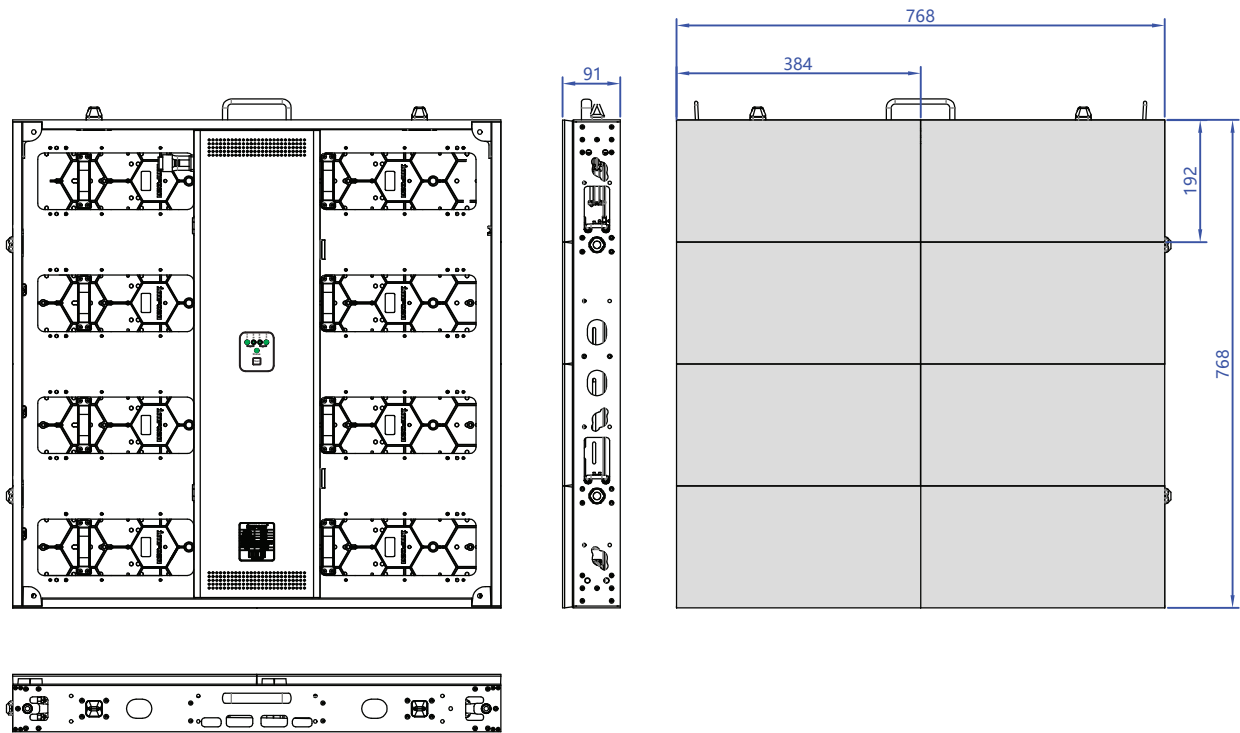
- PLEDCO-VFI4.36LI2-176x176-RGB-SFP
- PLEDCO-VFI5.33LI2-144x144-RGB-SFP
- PLEDCO-VFI6LI2-128x128-RGB-SFP

# Phoenix Series Product Dimensions

## MODULE DIMENSION (mm)



## CABINET DIMENSION (mm)



\* Customizable cabinets available to match specific requirements or upon request.

# Phoenix Series Specifications

OVERVIEW	FEATURES	PHOENIX SERIES - INDOOR LED DISPLAY		
MECHANICAL	Physical pitch (mm)	P4.36mm	5.33mm	6mm
	Model Numbers	PLEDCO-VFI4.36LI2-176x176-RGB-SFP	PLEDCO-VFI5.33LI2-144x144-RGB-SFP	PLEDCO-VFI6LI2-128x128-RGB-SFP
	Cabinet Material	Aluminum / Stainless Steel		
	Cabinet Surface (sqm)	0.589		
	Standard Cabinet Size (w x h x d - mm)	768 x 768 x 92 (2x4 tiles per cabinet) Customizable to meet specific requirements - upon request		
	Cabinet Resolution (w x h - pixels)	176 x 176	144 x 144	128 x 128
	Cabinet Weight (kg)	13		
	Cabinet Flatness (mm)	<= 0.2		
	Pixel Density (sqm)	52 517	35 200	27 776
	Tile Size (w x h - mm)	384 x 192		
	Tile Resolution (pixels)	88 x 44	72 x 36	64 x 32
TECHNICAL	Pitch Tolerance	0.05mm		
	IP Grade	Back panel central section IP54 Standard nano-coating treatment IP63 on LED Tiles		
	Voltage	110/220VAC, 50-60HZ		
	LED Type	SMD up to 2500nits		
	Power Supply Unit	Remote Power unit within 30m - using hot swappable PSU 3KW x3 for each 2 Unit rack. (Optional : Inside cabinet PSU without power redundancy and higher fuel rate.)		
	Power Supply Redundancy	Standard feature - zero down time with real time watchdog and notification service.		
	Data Line Redundancy	Standard feature - zero down time with real time watchdog and notification service. Including dual controller for 100% redundancy.		
	Controller	<b>MPU9000</b> 4K, HDR10, Dolby Vision, internal HD player, internal HD scaler. All standard inputs fully supported / UDP or Artnet remote for all functions, including input selection. Up to 12-bit color depth / 6 GB output port and up to 4 million pixels can be controlled per controller.		
	Gamma	Dynamic gamma management for perfect consistency on each brightness level and excellent performance on low grayscale.		
	Operating Humidity Range	0-90%		
	Grayscale	16 bit		
	Refresh Frequency	>4800HZ on MSB and LSB Grey scale (Adjustable)		
	Brightness Control	100 levels by manual control or scheduler / 256 levels by light sensor ( Optional UDP command for external control over network)		
	White Balance Brightness @ 6500K (After Calibration)	Up to 2500 nits		
	Operating Temp. Range	-40 to 55°C		
	Scanning Mode	1/12	1/5	1/3
	Color Temperature	3200K to 9500K (Adjustable - 4 fixed presets and 1 custom)		
	Dot Brightness Calibration	Color and brightness adjustment and pixel by pixel with second layer for tile edging line brightness adjustment. Calibration data saved on tiles for instant replacement. All calibration data is stored on our server and can be reloaded by an automatic function (authorized service technicians only).		
	Brightness Uniformity	+-1%		
	Color Space	Standard REC-709 / Factory ADOBE RGB REC-2020 and DCI-P3 optional. Color gamut can be recalled instantly through our software in real-time or via UDP command.		
	Chroma Uniformity	+- 0.002 ( Cx, Cy )		
	Frame Rate Hz	50 / 60 / 100 / 120		
	Typical lifetime	>= 100 000 hrs. MTBF 25 000 hrs.		
	Maintenance Access	Rear (Front Access Optional)		
	Viewing Angle	>= 170° x 170°		
	Directivity Angle (viewing angle @ 50% brightness)	140° x 140°		
	LED Binning Wavelength	+/- 1.5Nm		
	LED Binning Brightness	+-2.5%		
	MAX Non visible Heat load BTU/hr. (per cabinet)	491		
	AVG Non visible Heat load BTU/hr. (per cabinet)	163		
	MAX for remote PSU units Heat load BTU/hr. +-10% (per cabinet)	71 (optional feature if requested by client)		
Warranty	Manufacturer	Standard 6 year or optional 9 year on all parts following Pledco's warranty policy.		
Power Consumption	Maximum (per cabinet)	360 Watts		
	Average (per cabinet)	120 Watts		

\* Confirmed by SGS accredited labs, Pledco meets the CA TB133 Heat Release Rate.

\*\* Certifications with ISO90001, ISO14001 and EMC - EN61000-6-1 & EN61000-3.

\*\*\* \*\* Subject to change based on installation specifics. All specs as of 01/15/2019