



WORLD AUDIO & LIGHTS

422 CHESTNUT

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TECHNICAL SPECIFICATIONS

PNL1-i/o SERIES PANELS

3.9MM OUTDOOR / INDOOR RATED

LED Panel		<i>PNL1-i/o</i> Series
Pixel Pitch		3.91mm
LED Configuration		RGB
LED Type		SMD2121
LED Binning:	- Wavelength	±2 (nm)
	- Intensity	±2% (mcd)
Orientation		Portrait
View Angle		160° horizontal 160° vertical
LED Diode		Nationstar Epistar
Panel Tolerance	(mm)	±0.0125
Panel Material		Aluminum
Serviceability		Front or Rear
Screen & Enclosure		
Panel Size	(WxH)	500mm x 1000mm 19.69" x 39.37"
Panel Resolution	(WxH)	128 x 256
LEDs per Panel		32,768 ea
Panel Area		0.5 sqm 5.38 sqft
Aspect Ratio		1:2
Net Weight per Panel		34 lbs
Panel Diagonal		1118mm 44"
Chassis		PNL1-i/o
Pixel Density:	- (px/sqm)	65,536 ea
	- (px/sqft)	6,091 ea
Min. Viewing Distance:	(Feet)	5ft
Display Colors:	- Encoding	Up to 32-Bit
	- Output	8K 24-Bit
Mounting Methods		Flying or Ground Stacking
Contrast Ratio		6000:1
Brightness(6500K)	(NITS)	4000
IC Driver		Ultra HDR Chipset
Rated Lifetime (L50)		100,000 Hrs
Net Weight:	- (Per panel)	12.5kg 27.55 lbs
	- (Per sqm)	35 kg 77lbs
Creative Configuration		Curve 0°

Electrical		
Maximum Power Consumption (Per Panel)	(Amps) (Watts)	1.52 Amps @ 230VAC / 3.03 Amps @ 115VAC 290 Watts
Working Voltage		110-240V AC, 50/60Hz
Redundancy		N + 1 Hot Backup
Environmental		
Operating Temperature		-4°F to +120°F (-10°C to +32°C)
Humidity		5%—99% RH
Cooling System		Convection or Silent Fans
Heat Output (typ 40% of max)		1092 BTU/hr typical 2730 BTU/hr maximum
IP Rating		IP65
Processor and System		
CIE1931 Gamut		- ITU-R DCI-P3(>97% Confirmed by Nationstar) - ITU-R BT.2020 (>83% Confirmed by Nationstar)
Calibration		Factory Calibrated & In-field Calibratable w/ SLR Camera
Chroma Uniformity	(Cx, Cy)	±0.002
Gamma		Dynamic Dual mapping for indoor/outdoor with black level adjustment
Refresh Rate	Video	>3840-7680 Hz
Multimedia	(Screen)	MPG,AVI,WMV, MP4 etc.
Frames per Second		30-120 FPS
Video Processing		DMX512, Genlock, PIP, Scaling
Data Connection		Cat 5E UTP 330ft / Optic Fiber upto 10km / WIFI upto 3km
Control System Redundancy		Single or Double-loopback
Dimming		Photocell, Schedule or Manual
Latency		<15 ms
Video Source		DP, SDI, S-Video, Composite, HDMI, VGA, CVBS

