

VANGUARD LED DISPLAYS



Poseidon

Outdoor

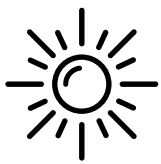
VANGUARD

LED DISPLAYS



OUTDOOR

Outdoor, fixed installation



Displays which face direct sunlight



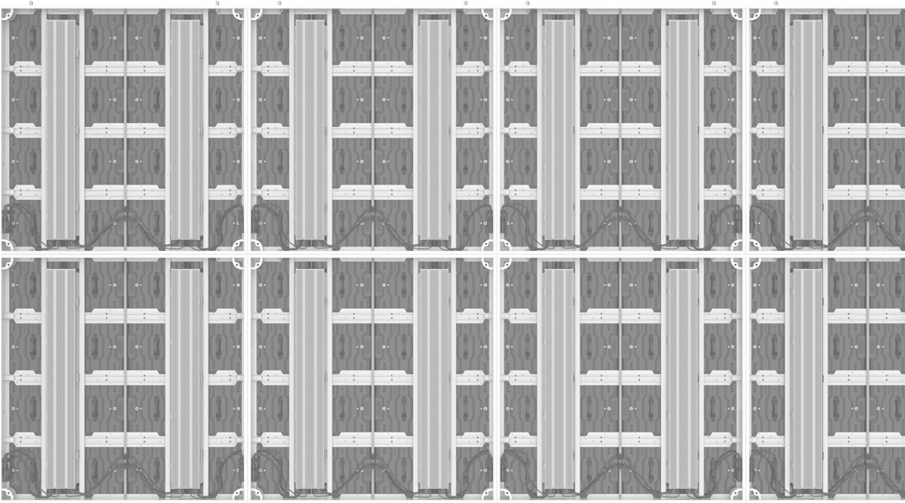
Displays exposed to weather



Displays in ocean or maritime environments

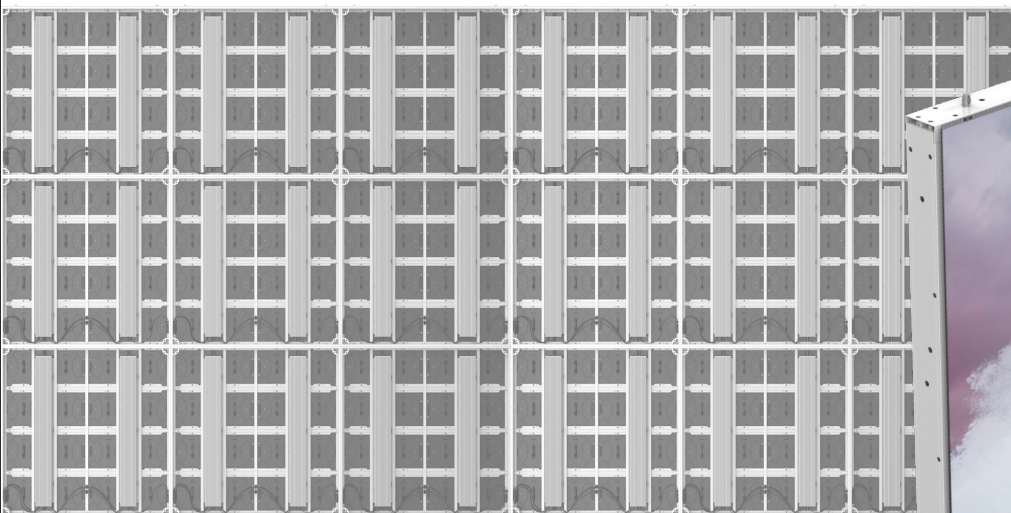


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Einsteinium

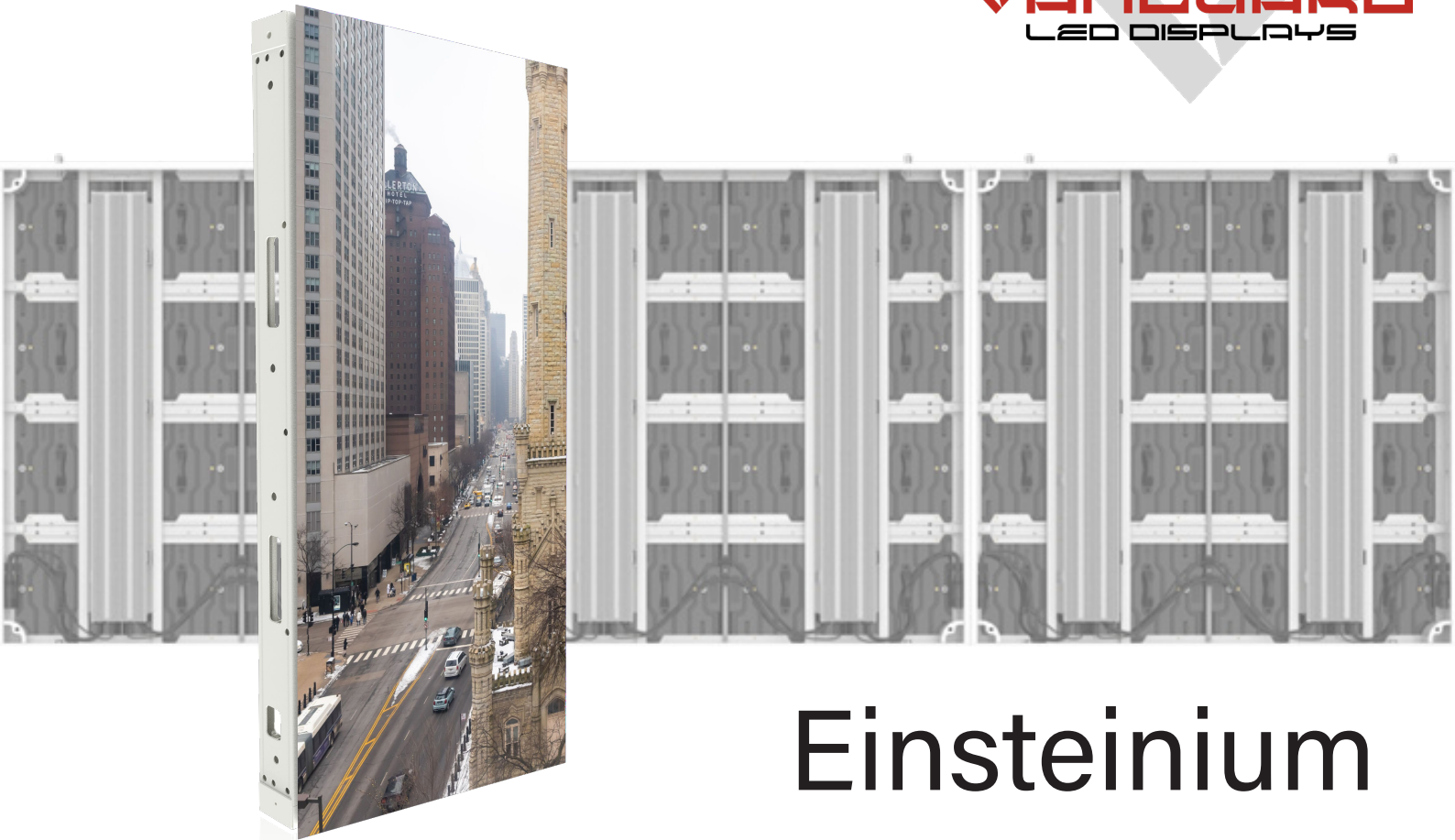
- As tight a pitch as **2.6mm** for fixed outdoor installation
- **Fully front serviceable** and with **locking modules**
- Design in **500 x 250mm** units
- **IP65** front | **IP54** rear
- **Sun-blocking** louvers



Poseidon

- Extreme outdoor durability with **IP66** rating front and rear
- **Fully front serviceable** and with **locking modules**
- Design in **300mm** units vertically and horizontally
- **Convex** and **outside corner** support





Einsteinium

pitch	2.6	2.9	3.9	4.8	5.9
pixel tech	SMD	SMD	SMD	SMD	SMD

dimensions



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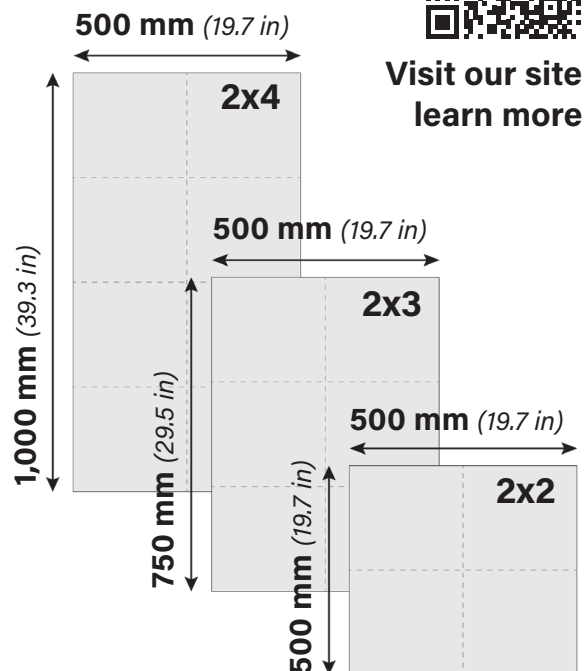
ideal for

Outdoor, permanent installation

summary

Einsteinium series is a perfect fit for outdoor permanent installations. With three cabinet height options, displays can be easily configured with the width to the nearest half-meter (500 mm), and the height to the nearest quarter-meter (250 mm).

Einsteinium has a fine pitch range compared to most outdoor dvLED products, creating immersive non-reflective displays with a much closer recommended viewing distance.



optional

- Epoxy masking or coating
- Left and/or right 45-degree edge for corners
- Connecting plates
- Flight cases
- Dual receiving cards
- Dual power suppliers

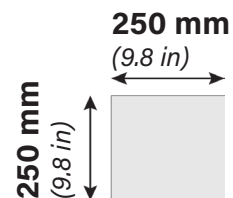
max brightness

6,000 nits

IP rating

IP65 front

IP54 rear



UNIVERSAL
MODULES

Einsteinium

SERIES NAME

MAXIMUM BRIGHTNESS (NITS)	up to 5,000	
DIMENSIONS	WIDTH	500 mm (19.7 in)
	HEIGHT	up to 1000 mm (39.4 in)
	DEPTH	up to 92 mm (3.6 in)
PANEL ASPECT RATIO	0.5:1, 0.7:1	
PANEL WEIGHT	up to 16 kg (35.3 lbs)	
MODULES PER PANEL	up to 8 per panel	
VIEWING ANGLE	HORIZONTAL	160°
	VERTICAL	160°
LED LIFETIME* (HRS)	50,000	
CONTRAST	5,000:1	
DRIVERS	ICN2055, ICN2150, ICN2153 (depending on pitch)	
SCAN RATE	1/7, 1/13, 1/16, 1/24 (depending on pitch)	
PROCESSING DEPTH (BITS)	13 default (8-13 range)	
REFRESH RATE (HZ)	3,840 default (3,840 range)	
FRAME RATE	60 default (60 options)	
COLOR TEMPERATURE	8,500 default (2000-9300 range)	
COLOR GAMUT	1~4	
BONDING WIRE	Copper	
POWER COMMON	Anode	
WATTS PER PANEL	270-360W max (95-126W average)	
WATTS PER SQ M	720-720W max (252-252W average)	
MAX AMPS PER CASCADE	16	
OPERATING VOLTAGE	100-240V AC, 50/60 Hz	
OPERATING TEMPERATURE	-20°C - +50°C	
MAXIMUM HEAT	923-1,230 BTU/hr (depending on pitch and panel size)	
HUMIDITY	10% - 90%, non-condensing	
IP RATING	IP65 front IP54 rear	
FRAME MATERIAL	Die-cast Aluminium	
HANGING AND STACKING	no hanging no stacking	
REAR BOLT THREADING	M10	
POWER CONNECTORS	Seetronic Powercon	
DATA CONNECTORS	Seetronic Ethercon	
SERVICE ACCESS	Front and Rear	
WARRANTY	3 year (up to 5 available)	
CERTIFICATIONS	EMC-B, CCC, FCC, ETL, LVD, CE, RoHS, UKCA, CB, BIS, KC, PSE	



Visit our site to learn more!



Poseidon

IP66

pitch	6.8	8.3	10	16.7
pixel tech	SMD	SMD	SMD	SMD

ideal for

Outdoor, permanent installation

summary

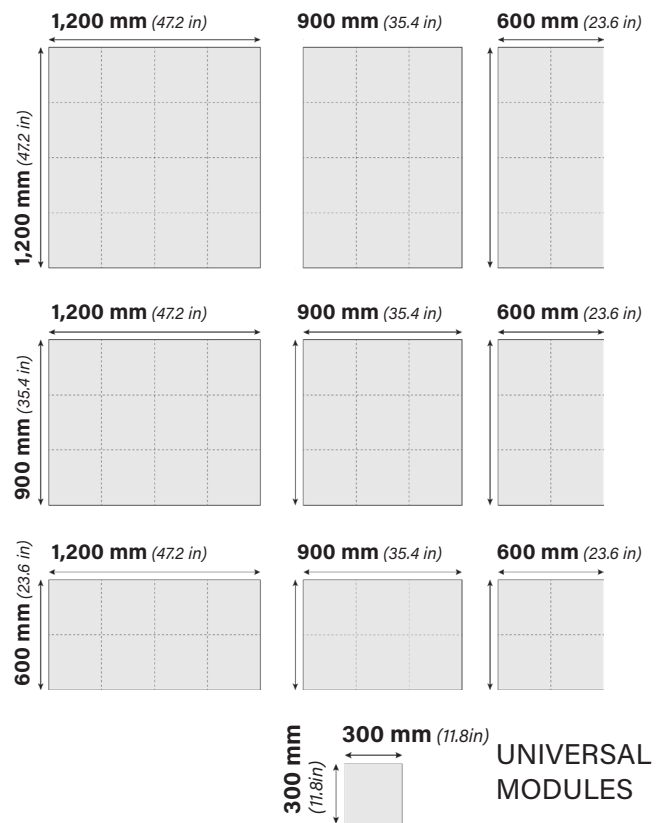
Poseidon is designed for the most intense weather with an IP66 rating, making it an ideal choice for coastal or cruise ship applications. Poseidon has nine panel sizes, resulting on a 300 mm design integer both horizontally and vertically.

Poseidon features new dual-channel voltage input for red, green, and blue sub-pixels, dramatically reducing power consumption and generated heat, but without the loss of high-end pixel performance associated with traditional common cathode.

special configurations



dimensions



optional

- Epoxy masking or coating
- Connecting plates
- IMD or MIP pixels
- IP66 extreme moisture protection
- 45-degree edges for corners
- Hydrophobic module treatment

max brightness
10,000 nits

IP rating
IP66 front and rear

Poseidon

SERIES NAME

MAXIMUM BRIGHTNESS (NITS)	up to 10,000	
DIMENSIONS	WIDTH	up to 1200 mm (47.2 in)
	HEIGHT	up to 1200 mm (47.2 in)
	DEPTH	92 mm (3.6 in)
PANEL ASPECT RATIO	0.5:1, 0.7:1, 0.8:1, 1.5:1, 1:1, 2:1, 4:3	
PANEL WEIGHT	up to 38.88 kg (85.7 lbs)	
MODULES PER PANEL	up to 16 per panel	
VIEWING ANGLE	HORIZONTAL	160°
	VERTICAL	160°
LED LIFETIME* (HRS)	10,000	
CONTRAST	7,000:1	
DRIVERS	CFD555	
SCAN RATE	1/16	
PROCESSING DEPTH (BITS)	13 default (8~13 range)	
REFRESH RATE (HZ)	3,840 default (3,840 range)	
FRAME RATE	60 default (60 options)	
COLOR TEMPERATURE	8,500 default (2000-9300 range)	
COLOR GAMUT	1~4	
BONDING WIRE	Gold	
POWER COMMON	Anode	
WATTS PER PANEL	259-1,037W max (91-363W average)	
WATTS PER SQ M	720-720W max (252-252W average)	
MAX AMPS PER CASCADE	16	
OPERATING VOLTAGE	100-240V AC, 50/60 Hz	
OPERATING TEMPERATURE	-20°C - +50°C	
MAXIMUM HEAT	886-3,543 BTU/hr (depending on pitch and panel size)	
HUMIDITY	10% - 90%, non-condensing	
IP RATING	IP66 front and rear	
FRAME MATERIAL	Die-cast Aluminium	
HANGING AND STACKING	no hanging no stacking	
REAR BOLT THREADING	M10	
POWER CONNECTORS	Seetronic Powercon	
DATA CONNECTORS	Seetronic Ethercon	
SERVICE ACCESS	Front and Rear	
WARRANTY	5 year (up to 7 available)	
CERTIFICATIONS	EMC-B, CCC, FCC, ETL, LVD, CE, RoHS, UKCA, CB, BIS, KC, PSE	



Vanguard LED Displays

summation

A leader in innovative digital LED display solutions, Vanguard offers an unrivaled range of products, technologies, and support.

Vanguard is an American-owned company, headquartered in Lakeland, Florida. Our mission statement - Complete customer satisfaction, defined by our core values of expertise, integrity, responsiveness, service, and value.

Our core values take many practical forms including Industry leading new technology, expert design advice at the outset of a project, timely quotes, the quickest lead times in the industry, helpful CADs and electrical drawings, professional commissioning, proficient on-site training, and stellar after-sales services.



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VANGUARD
LED DISPLAYS