VANGUARD
LED DISPLAYS

Einsteinium

pitch

2.6	2.9	3.9	4.8	5.9
SMD	SMD	SMD	SMD	SMD

pixel tech

dimensions

ideal for

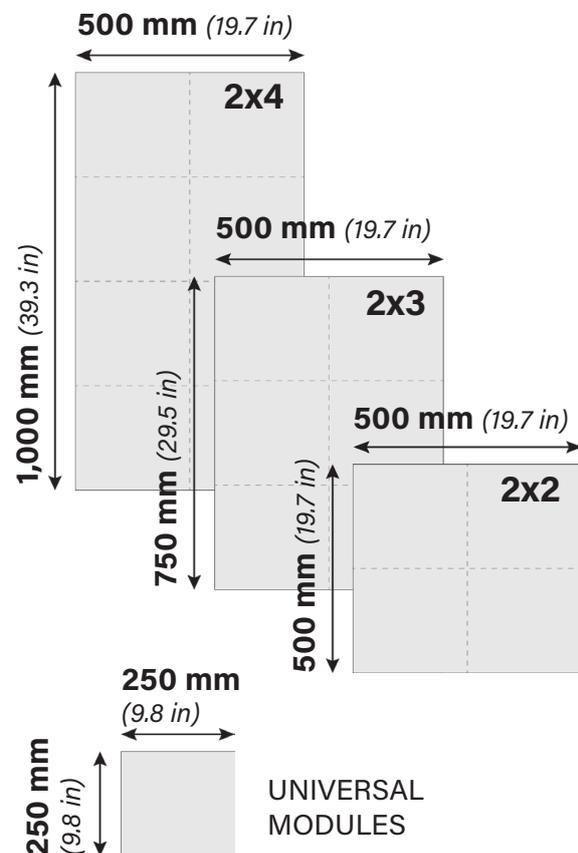## Outdoor, permanent installation

summary

Einsteinium series is a perfect fit for outdoor permanent installations. With **three cabinet height options**, displays and 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.

500 mm *(19.7 in)*

2x4

1,000 mm *(39.3 in)*

500 mm *(19.7 in)*

2x3

750 mm *(29.5 in)*

500 mm *(19.7 in)*

2x2

500 mm *(19.7 in)*

500 mm *(19.7 in)*

250 mm *(9.8 in)*

250 mm *(9.8 in)*

UNIVERSAL MODULES

optional

- Protective epoxy masking or coating
- Left and.or right 45-degree edge for corners
- Connecting plates
- Flight cases
- Dual receiving cards for data redundancy
- Dual power suppliers for power redundancy

max brightness

6,000 nits

IP rating

IP65

Einsteinium (ES)

series name		**Einsteinium (ES)**
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, 1:1
panel weight		up to 16 mm (35.3 in)
modules per panel		up to 8 per panel
viewing angle	HORIZONTAL	160°
	VERTICAL	160°
led lifetime* (hrs)		140
contrast		5,000:1
drivers		ICN
scan rate		
processing depth (bits)		14 default (10-16 range)
refresh rate (hz)		3,840 default (3840-7680 range)
frame rate		60 default (50, 60, 120 options)
color temperature		7,500 default (2000-12000 range)
color gamut		2.8
bonding wire		Copper
power common		Anode
watts per panel		132W max (46W average)
watts per sq m		650W max (228W average)
max amps per cascade		16
operating voltage		100-240V AC, 50/60 Hz
operating temperature		-20°C - +50°C
maximum heat		up to 1230.12 BTU/hr
humidity		10% - 90%, non-condensing
ip rating		IP65
frame material		Die-cast Aluminium
hanging and stacking		20 hanging	20 stacking
rear bolt threading		M10
power connectors		Seetronics Powercon
data connectors		Seetronics Ethercon
service access		Front and Rear
warranty		3 year (up to 5 available)
certifications		EMC-0, CCC, FCC, ETL, LVD, CE, RoHS, UKCA, CB, BIS, KC, PSE

supported controllers

Vanguard LED Displays 1G 5G   NovaStar 1G 5G   Brompton Technology 1G 5G