VANGUARD
LED DISPLAYS

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Orion

U.S. Origin End Products are TAA Compliant.

	0.9	1.2	1.5	1.8
pitch				
pixel tech	SMD	SMD	SMD	SMD

Vanguard's Orion LED displays are considered *"U.S. Origin End Products"* as defined in the Federal Acquisition Regulations (FAR) and as a result are Trade Agreement Act (TAA) compliant.
A module will be created using printed circuit boards populated with LED bulbs, then combined with integrated circuit drivers (IC drivers).

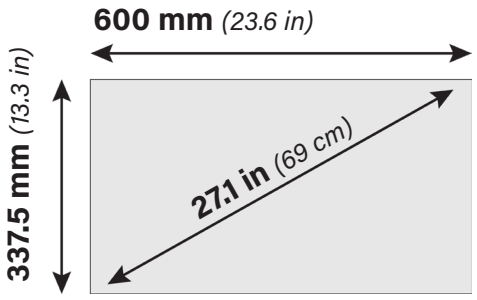
A frame will be assembled using a hub board including a receiving card, power supplies, cables and adapters forming frames for the display units.

At this point, the LED video display unit is still not functional.

The display modules and *"frames"* are shipped separately to Vanguard's Florida facility, where a *"substantial transformation"* takes place. The modules are integrated with the frames, with various components being wired together, creating, at that precise moment, video display panels that are capable of receiving signals and displaying images. Controllers will provide instructions to the displays enabling the system to generate images.

The product's functionality is the result of the *"substantial transformation"* that takes place in the USA. Therefore these products are, by definition, "U.S. ORIGIN END PRODUCTS" and as a result TAA compliant.

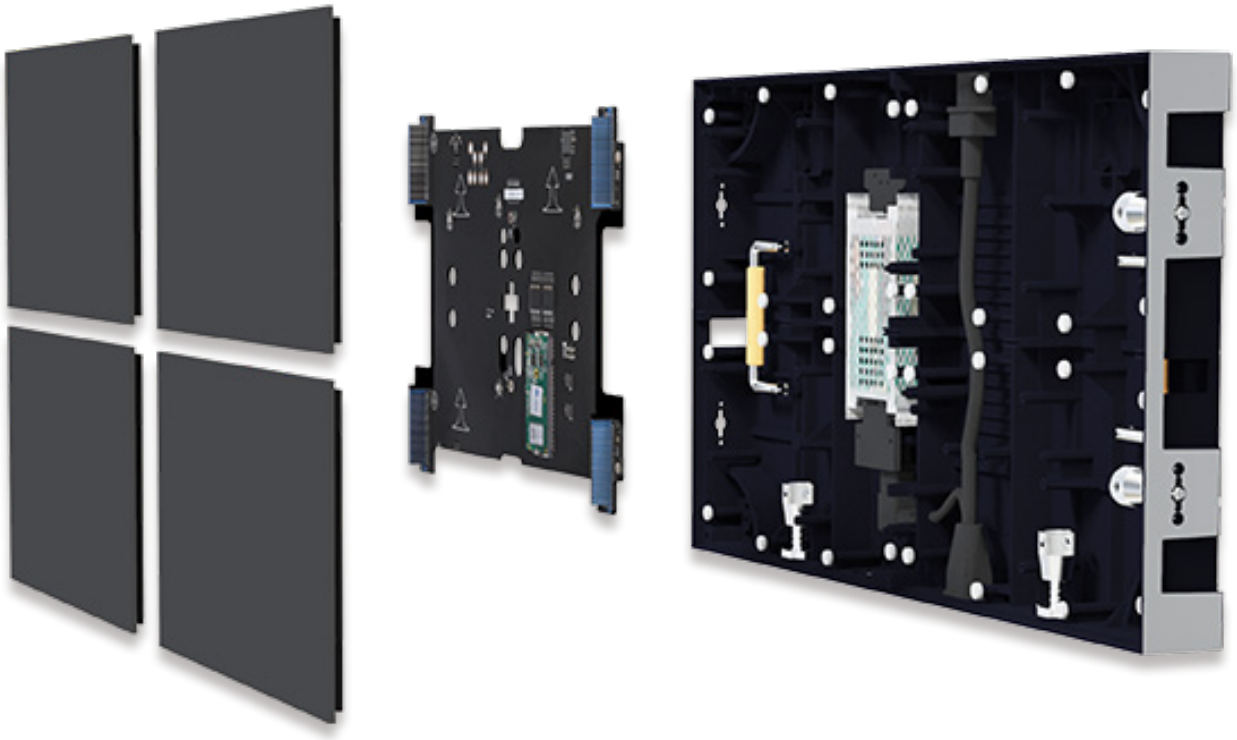
dimensions



aspect ratio	weight
16:9	7.7 kg (17 lbs)
max brightness	**IP rating**
1,200 nits	IP41

optional

- Protective epoxy masking or coating
- IMD or MIP pixels at select pitches
- Cosmetic/protective edge trim
- 45-degree edges for corner displays
- Connecting plates
- Headers for hanging/flying
- Embedded controller
- Mobile cart, up to 5x5 panel array
- Flight cases
- Hydrophobic treatment
- Dual receiving cards for data redundancy
- Dual power supplies for power redundancy
- Remote AC>DC power conversion



Orion (OR)

series name		
maximum brightness (nits)		up to 1,000
dimensions	WIDTH	up to 600 mm (23.6 in)
	HEIGHT	337.5 mm (13.3 in)
	DEPTH	58 mm (2.3 in)
panel aspect ratio		16:9, 8:9
panel weight		up to 7.7 kg (17 lbs)
modules per panel		up to 4 per panel
viewing angle	HORIZONTAL	160°
	VERTICAL	160°
led lifetime* (hrs)		100,000
contrast		up to 6,000:1
drivers		ICN 1069, ICN 2153 (depending on pitch)
scan rate		1/27, 1/30, 1/60 (depending on pitch)
processing depth (bits)		14 default (10-16 range)
refresh rate (hz)		3,840 default (3,840 range)
frame rate		60 default (50, 60 options)
color temperature		7,500 default (2000-12000 range)
color gamut		N/A

bonding wire	Copper
power common	Anode
watts per panel	55-138W max (19-48W average)
watts per sq m	540-680W max (189-238W average)
max amps per cascade	10
operating voltage	100-240V AC, 50/60 Hz
operating temperature	-10°C - +40°C
maximum heat	187-471 BTU/hr (depending on pitch and panel size)
humidity	10% - 80%, non-condensing
ip rating	IP41
frame material	Die-cast Aluminium
hanging and stacking	15 hanging max | 30 stacking max
rear bolt threading	M8
power connectors	C13/C14
data connectors	RJ45
service access	Front
warranty	3 year (up to 5 available)
certifications	EMC-B, CCC, FCC, ETL, LVD, CE, RoHS, CB, PSE

specs dated: 2025.04.16

*the above specifications reflect a standard configuration of the modules and panels

supported controllers

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1G 5G