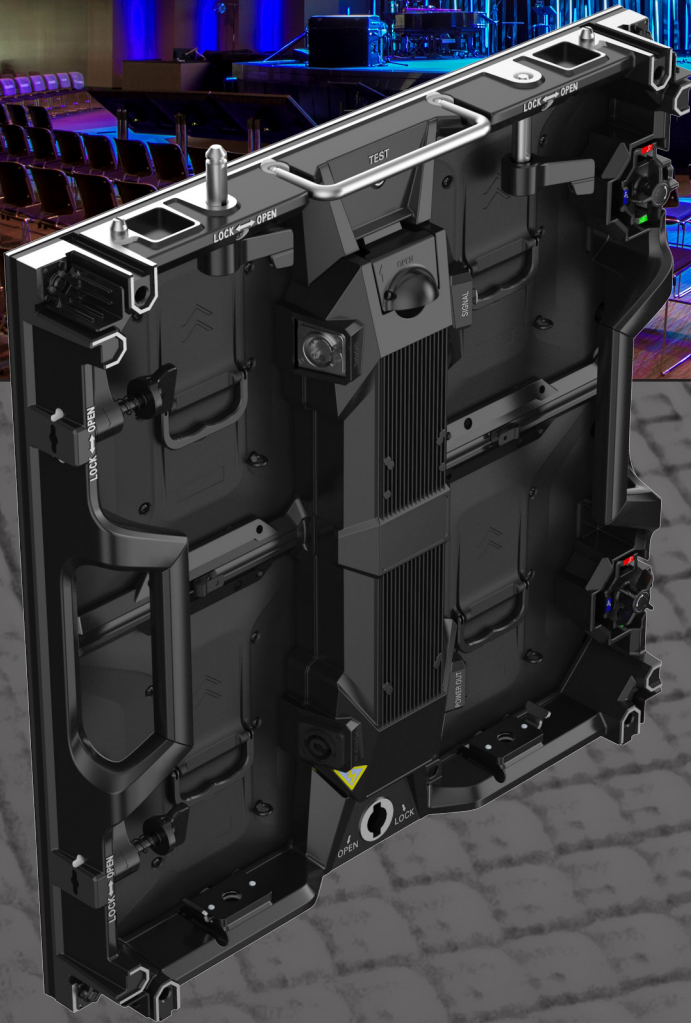


VANGUARD

LED DISPLAYS



Tungsten

Rental

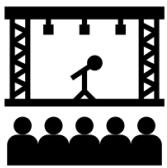
Ideal for the event market

VANGUARD

LED DISPLAYS



RENTAL
Ideal for the event market



Concerts
trade shows,
events, and
conventions



Fast setup and
strike



No tools
required

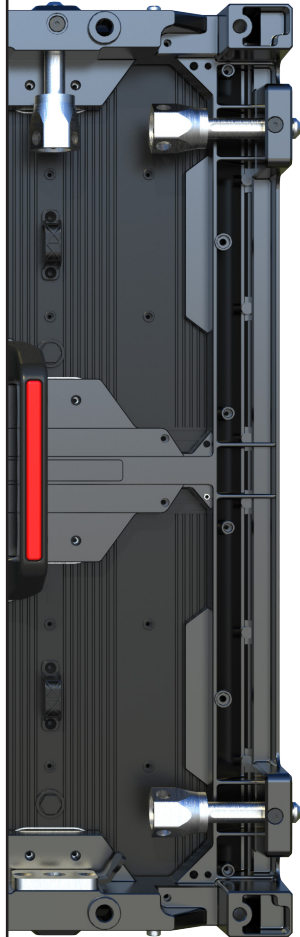


Visit our site to
learn more!



Tungsten

- 500 x 500mm panel
- 500 x 1000mm panel
- Panel-to-panel **curving**
- Integrated **corner protection**



Tungsten Pro

- 500 x 500mm panel
- **Fine-pitch** options available
- **Outdoor** rated



Cesium

- **Integrated panel curving** up to 45° concave or convex
- 500 x 500 mm panel
- Compatible with **Tungsten** panels
- Integrated **corner protection**



Axion Mobile

- 600 x 337.5mm panel
- **16:9** aspect ratio
- **Fine-pitch** options available



Visit our site to learn more!



pitch	1.5	1.9	2.6	3.9
pixel tech	IMD	SMD	SMD	SMD

ideal for

Indoor rental and production

summary

Tungsten is an excellent choice for most rental applications with a stout 500x500mm and 500x1000 mm panel, combined with fine-pitch options typically only seen with fixed installation products.

Tungsten has column-to-column curving options up to -6 degrees to +6 degrees. Column-to-column curving set by a rotating bracket with fixed angles, reducing the need to precisely set an angle for every panel. Panels feature a flip-out metal shield which protects the corner pixels during handling, reducing damages.

special configurations

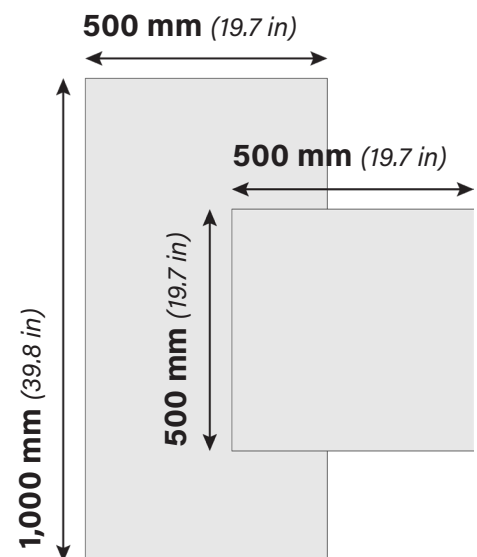


optional

- Epoxy masking or coating
- Protective/cosmetic edge trim
- Flight cases
- Alternate column-to-column angle brackets

Tungsten

dimensions

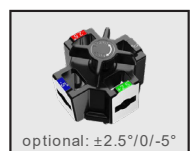


max brightness
1,200 nits

IP rating
IP30



Standard: $\pm 3^\circ/0/+6^\circ$



Tungsten

SERIES NAME

MAXIMUM BRIGHTNESS (NITS)	up to 1,000	
DIMENSIONS	WIDTH	500 mm (19.7 in)
	HEIGHT	up to 1000 mm (39.4 in)
	DEPTH	72.5 mm (2.9 in)
PANEL ASPECT RATIO	0.5:1, 1:1	
PANEL WEIGHT	8 kg (17.6 lbs)	
MODULES PER PANEL	up to 8 per panel	
VIEWING ANGLE	HORIZONTAL	160°
	VERTICAL	160°
LED LIFETIME* (HRS)	50,000	
CONTRAST	8,000:1	
DRIVERS	ICN1065, ICN1069, ICN2055 (depending on pitch)	
SCAN RATE	1/16	
PROCESSING DEPTH (BITS)	14 default (8~14 range)	
REFRESH RATE (HZ)	7,680 default (7,680 range)	
FRAME RATE	60 default (60 options)	
COLOR TEMPERATURE	8,500 default (2000-9300 range)	
COLOR GAMUT	2.8(1.0 - 4.0)	
BONDING WIRE	Copper	
POWER COMMON	Anode, cathode (depending on pitch)	
WATTS PER PANEL	150-400W max (53-140W average)	
WATTS PER SQ M	600-800W max (210-280W average)	
MAX AMPS PER CASCADE	20	
OPERATING VOLTAGE	100-240V AC, 50/60 Hz	
OPERATING TEMPERATURE	-20°C - +50°C	
MAXIMUM HEAT	513-1,367 BTU/hr (depending on pitch and panel size)	
HUMIDITY	10% - 90%, non-condensing	
IP RATING	IP30	
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-A, CCC, FCC, ETL, LVD, CE, RoHS, UKCA, CB, BIS, KC, PSE	

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



Visit our site to learn more!



Tungsten Pro

pitch	1.2	1.5	1.9
pixel tech	SMD	SMD	SMD

ideal for

Outdoor fine-pitch rental

summary

Tungsten Pro combines the design form-factor of traditional rental and staging product (500x500mm) with fine pixel pitches that are normally only available for indoor displays.

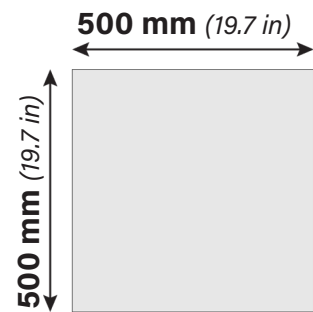
All Tungsten Pro are power efficient and running cool with flip-chip and common cathode technology.

Tungsten Pro provides fine pixel pitch down to 1.2mm, which is an evolution in the capability of rental dvLED technology.

optional

- Connecting plates
- Headers for hanging/flying
- Footers for stacking
- Flight cases
- IP66 ingress protection

dimensions



aspect ratio
1:1

max brightness
4,500 nits

weight
9 kg (19.8 lbs)

IP rating
IP65



Tungsten Pro

SERIES NAME

MAXIMUM BRIGHTNESS (NITS)

up to 3,500

DIMENSIONS

WIDTH 500 mm (19.7 in)

HEIGHT 500 mm (19.7 in)

DEPTH 50 mm (2 in)

PANEL ASPECT RATIO

1:1

PANEL WEIGHT

9.2 kg (20.3 lbs)

MODULES PER PANEL

4 per panel

VIEWING ANGLE

HORIZONTAL 160°

VERTICAL 160°

LED LIFETIME* (HRS)

100,000

CONTRAST

6,000:1

DRIVERS

CFD955

SCAN RATE

1/32, 1/40 (depending on pitch)

PROCESSING DEPTH (BITS)

14 default (8-16 range)

REFRESH RATE (HZ)

3,840 default (3840-7680 range)

FRAME RATE

60 default (50, 60, 120 options)

COLOR TEMPERATURE

6,500 default (2000-12000 range)

COLOR GAMUT

2.8 (1.0 - 4.0)

BONDING WIRE

Flip-chip

POWER COMMON

Cathode

WATTS PER PANEL

150-150W max (53-53W average)

WATTS PER SQ M

600-600W max (210-210W average)

MAX AMPS PER CASCADE

10

OPERATING VOLTAGE

100-240V AC, 50/60 Hz

OPERATING TEMPERATURE

-20°C - +50°C

MAXIMUM HEAT

513-513 BTU/hr (depending on pitch and panel size)

HUMIDITY

10% - 80%, Non-condensing

IP RATING

IP65

FRAME MATERIAL

Die-cast Aluminium

HANGING AND STACKING

20 hanging max | 20 stacking max

REAR BOLT THREADING

M8

POWER CONNECTORS

Seetronic Powercon

DATA CONNECTORS

Seetronic Ethercon

SERVICE ACCESS

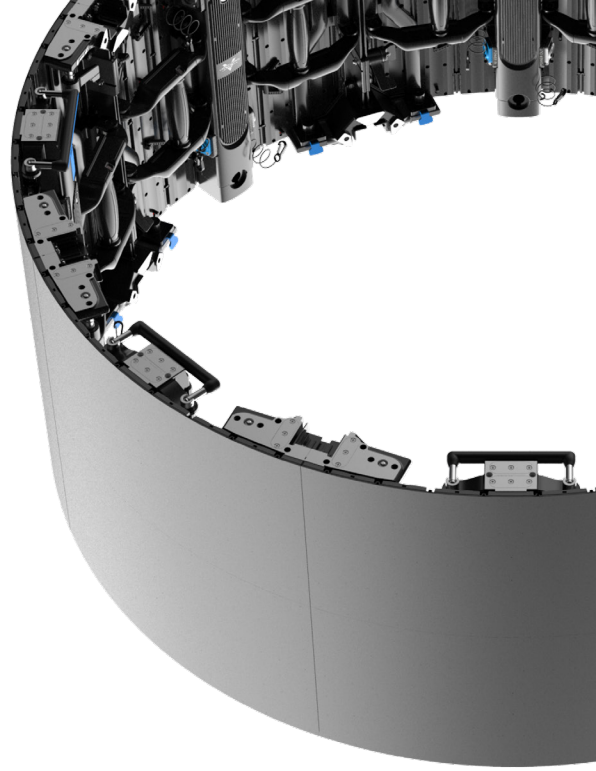
Front and Rear

WARRANTY

5 year (up to 7 available)

CERTIFICATIONS

EMC-A, CCC, FCC, ETL, CE, RoHS, PSE



Cesium

pitch

1.9

2.6

pixel tech

SMD

SMD



Cesium



Tungsten



Compatible with Tungsten

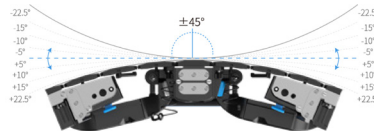
ideal for

Indoor rental and production

summary

Cesium series expands design potential with dynamically curving panels. Integrated handles on the rear are used for carrying and adjusting the internal curve of the panel. An individual Cesium panel can achieve up to a 45-degree curve, concave or convex. Create a perfect cylinder as narrow as 1.3 meters (4.2 ft).

Sixteen (16) panels can create a complete 360-degree circle.



Like Tungsten, Cesium panels feature metal corner protectors which fold closed and deploy via spring and push of a button on the rear of the panel.

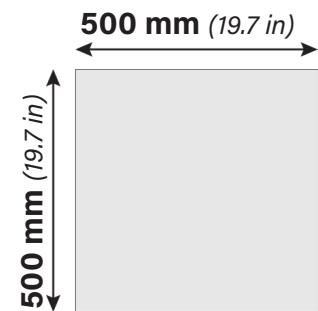
special configurations



optional

- Epoxy masking or coating
- Connecting plates
- Flight cases
- Headers for hanging/flying
- Footers for stacking
- Reduced magnets for transit stations
- Hydrophobic module treatment

dimensions



aspect ratio

1:1

weight

8 kg (17.6 lbs)

max brightness

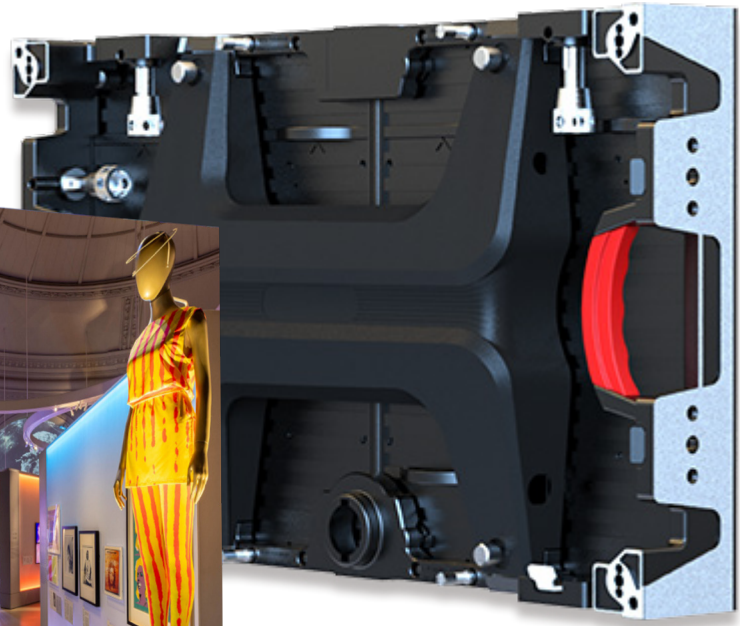
1,500 nits

IP rating

IP30

Cesium

SERIES NAME	up to 900	
MAXIMUM BRIGHTNESS (NITS)	up to 900	
DIMENSIONS	WIDTH	500 mm (19.7 in)
	HEIGHT	500 mm (19.7 in)
	DEPTH	73 mm (2.9 in)
PANEL ASPECT RATIO	1:1	
PANEL WEIGHT	8 kg (17.6 lbs)	
MODULES PER PANEL	4 per panel	
VIEWING ANGLE	HORIZONTAL	160°
	VERTICAL	160°
LED LIFETIME* (HRS)	50,000	
CONTRAST	8,000:1	
DRIVERS	ICN2055	
SCAN RATE	1/32	
PROCESSING DEPTH (BITS)	14 default (8-14 range)	
REFRESH RATE (HZ)	3,840 default (3,840 range)	
FRAME RATE	60 default (50, 60 options)	
COLOR TEMPERATURE	8,500 default (2000-9300 range)	
COLOR GAMUT	2.8 (1.0 - 4.0)	
BONDING WIRE	Copper	
POWER COMMON	Anode	
WATTS PER PANEL	150-200W max (53-70W average)	
WATTS PER SQ M	600-800W max (210-280W average)	
MAX AMPS PER CASCADE	20	
OPERATING VOLTAGE	100-240V AC, 50/60 Hz	
OPERATING TEMPERATURE	-20°C - +50°C	
MAXIMUM HEAT	513-683 BTU/hr (depending on pitch and panel size)	
HUMIDITY	10% - 90%, non-condensing	
IP RATING	IP30	
FRAME MATERIAL	Die-cast Aluminium	
HANGING AND STACKING	20 hanging max 20 stacking max	
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-A, CCC, FCC, ETL, LVD, CE, RoHS, UKCA, CB, BIS, KC, PSE	



Axion Mobile

pitch	0.9	1.2	1.5	1.8	2.5
pixel tech	IMD	SMD	SMD	SMD	SMD



Visit our site to learn more!

ideal for

Indoor rental for 16:9 and 32:9 displays

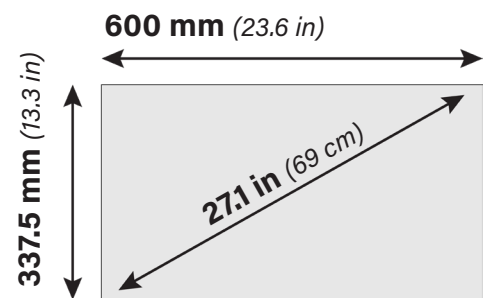
summary

Axion Mobile offers the ease of 16:9 LED displays in a rental panel. Axion Mobile panels are the popular size for fixed 16:9 displays at 600 x 337.5 mm, the same as our Axion Pro and Axion COB series.

Available in the most popular 16:9 pixel pitches, Axion Mobile is optimized for native 16:9 displays at 2K, 4K, 8K, and more!

Axion Mobile's 16:9 panel aspect also makes it easy to make dual displays with a 32:9 aspect ratio.

dimensions



aspect ratio

16:9

weight

7.5 kg (16.5 lbs)

max brightness

800 nits

IP rating

IP50

special configurations



optional

- Epoxy masking or coating
- Connecting plates
- Flight cases
- Headers for hanging/flying
- Footers for stacking

Axion Mobile

SERIES NAME

MAXIMUM BRIGHTNESS (NITS)	up to 1,200	
DIMENSIONS	WIDTH	600 mm (23.6 in)
	HEIGHT	337.5 mm (13.3 in)
	DEPTH	73 mm (2.9 in)
PANEL ASPECT RATIO	16:9	
PANEL WEIGHT	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	1/15, 1/27, 1/30, 1/60 (depending on pitch)	
PROCESSING DEPTH (BITS)	14 default (8-16 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	2.8 (1.0-4.0)	
BONDING WIRE	Copper	
POWER COMMON	Anode, Cathode (depending on pitch)	
WATTS PER PANEL	109-138W max (38-48W average)	
WATTS PER SQ M	540-680W max (189-238W average)	
MAX AMPS PER CASCADE	20	
OPERATING VOLTAGE	100-240V AC, 50/60 Hz	
OPERATING TEMPERATURE	-10°C - +40°C	
MAXIMUM HEAT	374-471 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	Neutrik PowerCon	
DATA CONNECTORS	Neutrik EtherCon	
SERVICE ACCESS	Front and Rear	
WARRANTY	3 year (up to 5 available)	
CERTIFICATIONS	EMC-B, CCC, FCC, ETL, LVD, CE, RoHS, CB, PSE	



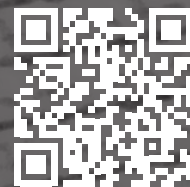
Vanguard LED Displays

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