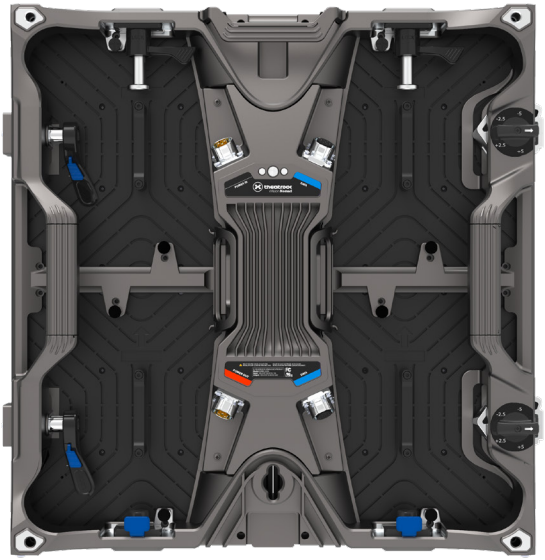
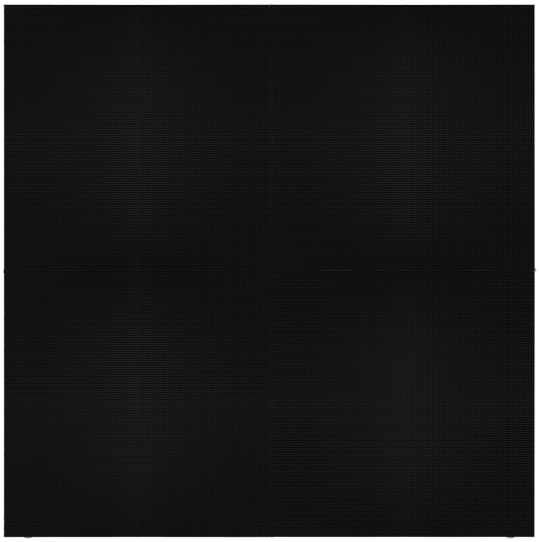
Theatrixx

xVision Nomad 2.6 Indoor TPEP

XVNM-2.6-IN





The xVision Nomad is a true AV workhorse. Packed with features and housed in a rugged frame, it is the first xVision product to feature Theatrixx's proprietary TPEP technology. This makes it extremely durable and ideal for daily AV rental applications and productions. It is also amongst the first LED displays on the market to boast a 7,680 Hz refresh rate, making it ideal for XR production thanks to its increased dynamic range. As always, Theatrixx offers a well-rounded, complete solution with a full line of matching flight cases, ground support, rigging accessories and power distribution systems.

Features

- Unique, proprietary **TPEP (Titanium/Polymer Edge Protection)** technology provides unparalleled module protection and durability.
- High-endurance design **built for demanding environments** translates **greater return on investment (ROI)** than any other traditional fine-pitch LED technology.
- **High refresh rate of 7,680 Hz** provides the greatest dynamic range and grayscale depth, especially at lower brightness settings.
- **Curvable at +/- 2.5 and 5 degrees** using proven rotary angle hub system.
- Rear serviceable, but can be converted to front service thanks to magnetic modules.
- Monolithic, **field-replaceable tile controller**, including power supply and all tile electronics.
- Calibration **data stored onboard** modules.
- Rugged yet lightweight **aluminium chassis** in industry-standard **500 x 500 mm dimensions.**
- **Complete solution**: High-quality flight cases, rigging accessories, ground support system, power distribution & cabling available from Theatrixx.
- Proven **XVT connectors system** for power and data provides the greatest connection reliability on the market.

Ordering Information

XVNM-2.6-OUT	xVision Nomad Outdoor LED Panel 2.6 mm TPEP
XVNM-3.9-IN	xVision Nomad Indoor LED Panel 3.9 mm TPEP
XVNM-3.9-OUT	xVision Nomad Outdoor LED Panel 3.9 mm TPEP
XVNM-BUMP-1	xVision Nomad Single Bumper
XVNM-BUMP-2	xVision Nomad Double Bumper
XV-FC-10-500	xVision Flight Case for 10 LED Panels
XV-FC-CBL	xVision Flight Case for Cabling
XV-FC-RIG	xVision Flight Case for Rigging Equipment

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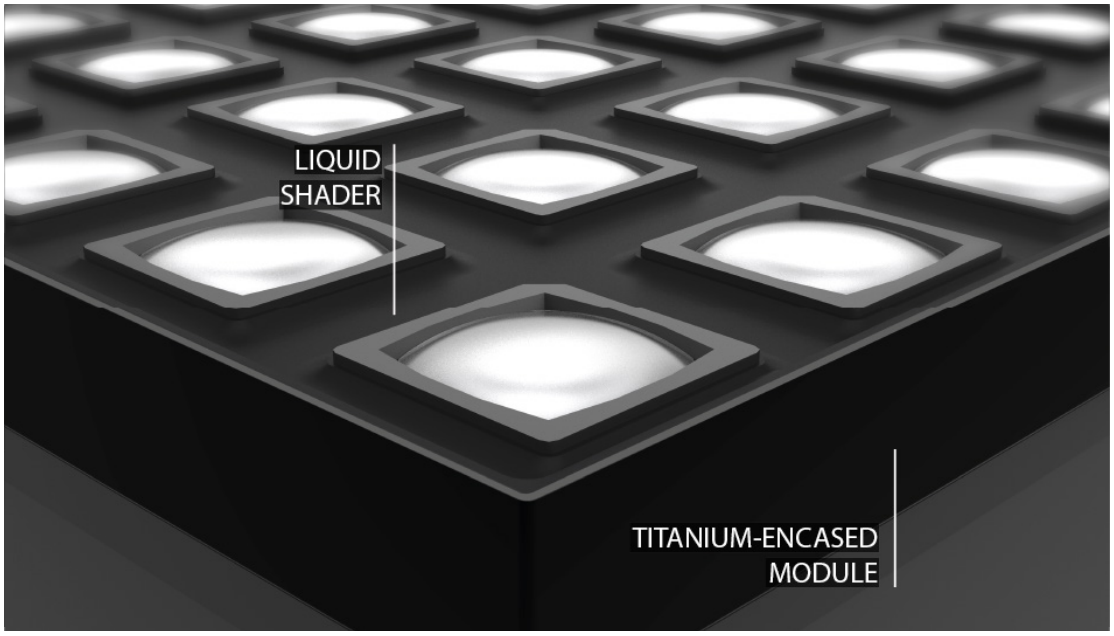
Special Technology

About TPEP technology



When it comes to fine pixel pitch LED in rental / pro AV applications, the biggest hurdle is no doubt the fragility of these products. Indeed, it is not uncommon for sub-4 mm inventories to suffer significant downtime, and consequently, require a higher percentage of spare equipment to be purchased and maintained. We believe that this is the single biggest barrier to the adoption of fine pixel pitch LED in rental and pro AV environments, and this is why we created TPEP.

Our exclusive TPEP has been developed upon our years of experience designing, manufacturing and servicing LED displays for the most demanding environments. It combines unmatched durability with ease of service, all while delivering the highest-quality images at a competitive price point.

- Titanium-encased modules protect against direct edge impacts, the most common source of LED damage.
- Liquid shader replaces traditional solid shaders. This eliminates screws, brittle plastic, and providing an unencumbered, 170 degrees viewing angle.
- Easily serviceable with affordable specialized tooling.
- Polymer compound provides mechanical bonding between pixels, without covering LED lenses or altering their colour spectrum.
- Use of industry-standard LEDs means all batch-matching and calibration methods can be seamlessly applied.

Specifications

Pixel

Packaging	RGB SMD 1415 3-in-1
Packaging Manufacturer	Nationstar
Pixel Pitch	2.60 mm
LED Technology Type	TPEP (Titanium/Polymer Edge Protection)

Mechanical

Module Resolution	96 x 96 px
Module Protection	Titanium edge around modules for total pixel protection
Panel Resolution	192 x 192 px
Panel Construction	Die-cast aluminium

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Specifications

Optical

Brightness	1,200 nits
Contrast Ratio	4000:1
Lifespan	100,000 hours
MTBF	> 20,000 hours
Horizontal Viewing Angle	170 degrees
Vertical Viewing Angle	170 degrees

Processing

Driving Mode	1/16
Driver IC	MBI5264
Distribution Architecture	Common Anode
Grayscale Depth	16 bits
Refresh Rate	7,680 Hz
Video Frame Rate	60 Hz
LED Control System	Novastar

Physical Specifications

Height	500 mm
Depth	79 mm
Width	500 mm
Weight	10.88 kg (24.00 lbs)

Environmental Specifications

Protection Rating	IP30
Operating Temperature	-30C @ +60C
Storage Temperature	-40C @ +70C
Relative Humidity	10-95% Non-condensing

Power Requirements

Max Power Consumption	200 W/panel
Average Power Consumption	90 W/panel
Input Voltage	100-240V, 50-60Hz auto-ranging

Certifications

Electrical Safety	UL 60950-1:2007, CSA C22.2#60950-1:2007
Electro Magnetic Compliance	FCC Part 15 Class A, ICES-003/NMB-003 Class A
Warranty	2 years