LPDISPLAY

NOX PRO Series

Outdoor Fine Pitch Fixed Product

NOX PRO series product is primarily designed for outdoor display applications. it is mainly used in outdoor-facing locations such as storefronts, bus stations, and signage. This series features high brightness, high refresh rate, and high contrast, delivering outstanding display effects. The GOB (Clue on Board) treatment on he surface enhances overall protection, making it the best choice for your outdoor fine pixel pitch needs.

MIP/SMD/COB Package

Common Cathode
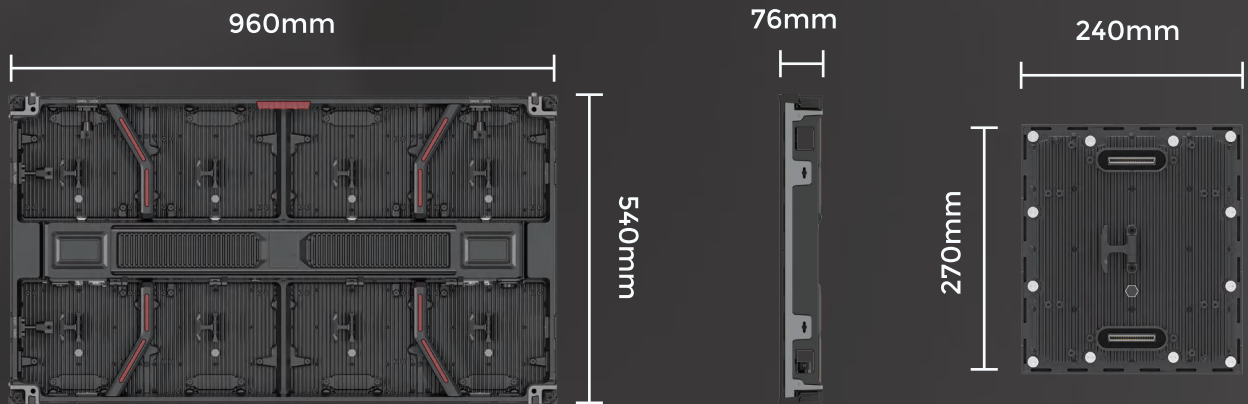
Flip Chip

High Brightness 4000nits

High Contrast Ratio 20.000:1

High Protection

Product Display

960mm

76mm

240mm

540mm

270mm

Advanced Drive IC For Optional

▲ Common cathode PWM constant current driver IC, energy saving.

▲ Precise current control, Perfect solution to cross-board coupling and chromatic aberration.

▲ Fine low gray calibration with 3ns pulse width.

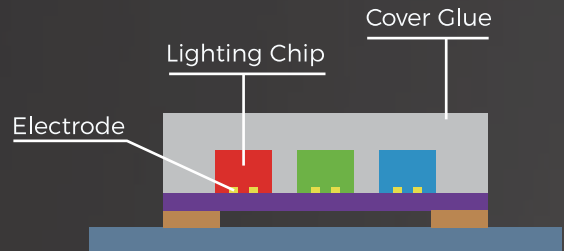▲ High gray level 16bit, work with Nova system can be 22bit+ color processing depth.
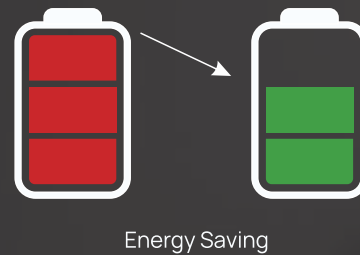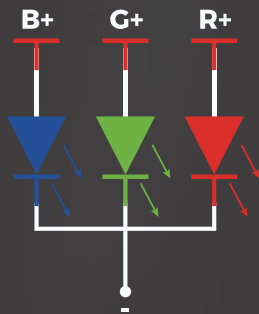
Same cabinet be compatible for SMD/COB/MIP technology

SMD

MIP

COB

Full Flip Chip MIP Panel

▲ Flip chip mip technology, no welding pad block. high luminous efficiency.

▲ Larger welding pad size for stronger connections.

▲ Wider view angle.

▲ No welding wire, reduce the failure rate of the lamp bead.

▲ Light-emitting chip direct contact with the pcb, which improves heat dissipation.

Cover Glue

Lighting Chip

Electrode

Common Cathode Design

Product use common cathode design to reduces power consumption, less heat generation, lower screen temperature, improves stability and longevity.

B+   G+   R+

Energy Saving

Ultra High Contrast Ratio

MIP package 20,000:1 ultra high contrast ratio optional for outdoor make the image more bright.
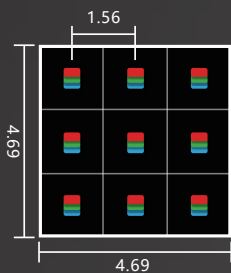
Ultra-high Refresh

7680hz ultra-high refresh design, no fear of various shooting scenes.
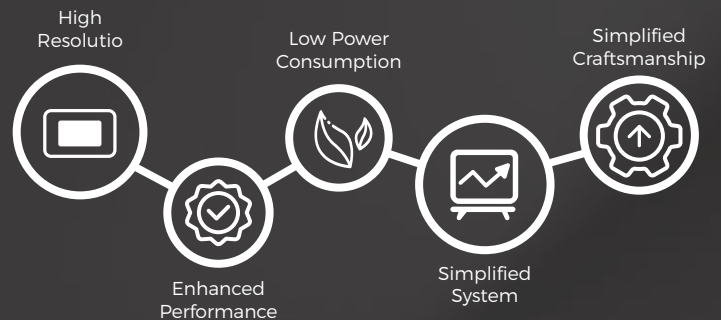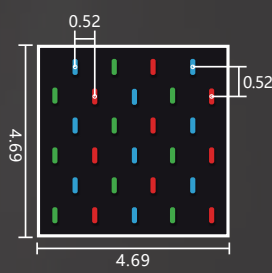

Exclusive Patented Tri-Pixel Technology

Industry Standard Design

1.56

4.69

4.69

27 LEDs, 9 pixel clusters
PH1.5625mm

VS

LP DISPLAY's Patented Design

0.52

0.52

4.69

4.69

High Resolutio

Enhanced Performance

Low Power Consumption

Simplified System

Simplified Craftsmanship

IP65 Protection

IP65 protection for front and rear, waterproof, moisture-proof. antistatic and anti-collision.

Anti-collision
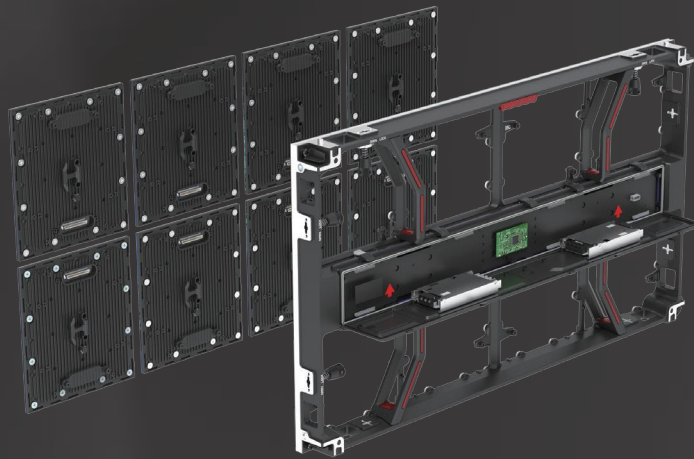
Anti-oxidation

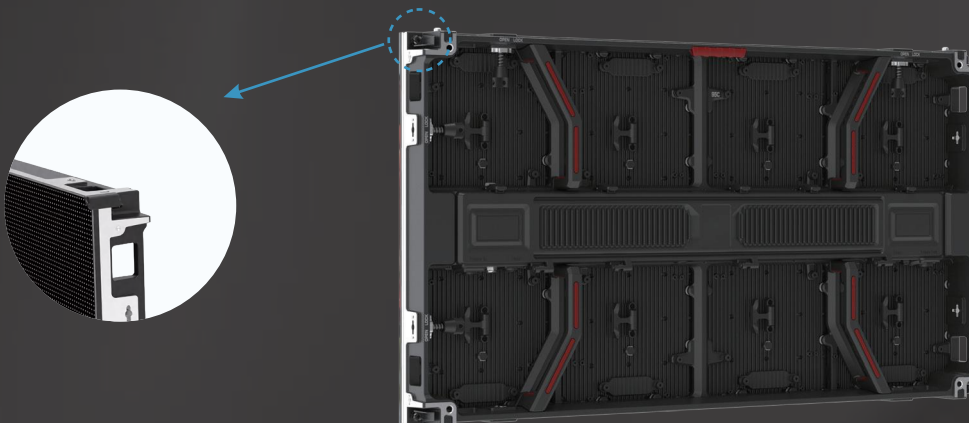Moisture-resistant

Easy clean

Anti-static

Modular Design

Cabinet modular design, maintenance convenient and fast.
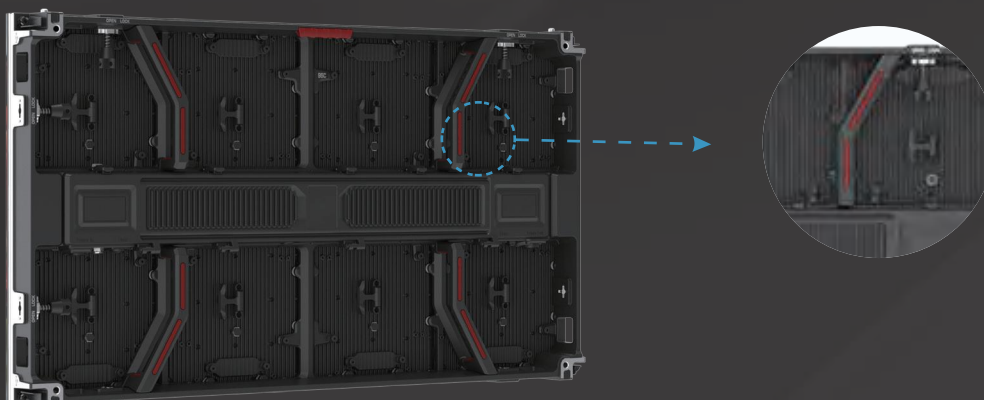

Corner Protection

Corner protector design ensure no damage during transportation.
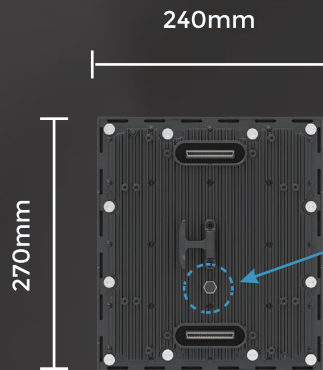

Handle Design

Cabinet is designed with handle, easy to operate during installation and removal, without the risk of dropping.

Die-cast Aluminum Bottom Shell

Die-cast aluminum bottom shell for better flatness and better heat dissipation.

240mm

270mm

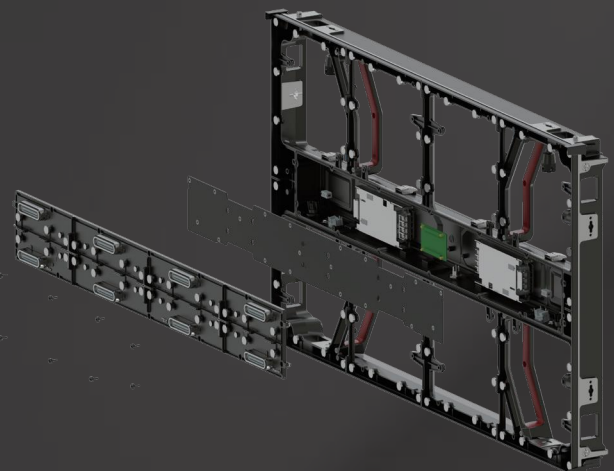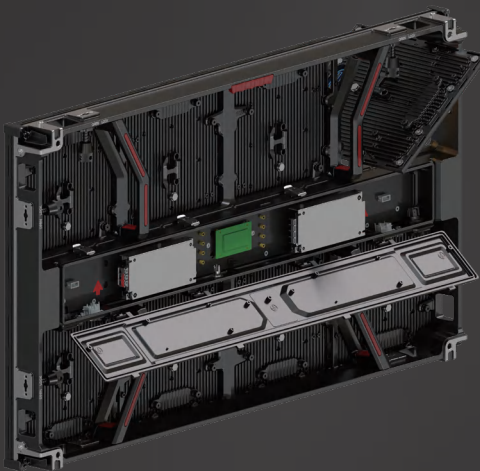The module design includes a vent valve. which effectively regulates the internal air pressure balance ofthe module when the temperature rises, helping with heat dissipation and improving stability.
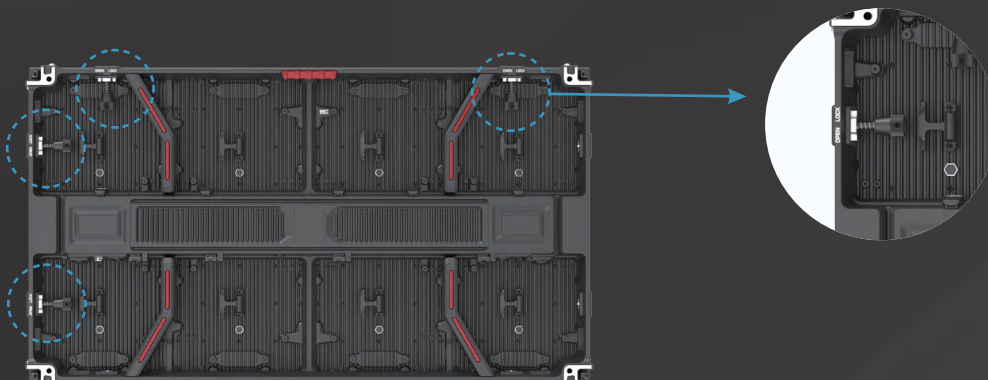
Front and Rear Maintenance

Module front and rear maintenance, convenient and fast.

Fast Lock

Cabinet is designed with quick-release lock, allowing for fast installation and saving time and effort.

NOX PRO Series Specification

MIP

	Pixel Pitch (mm)	P1.25	P1.5	P1.875	P2.5
PHYSICAL PARAMETERS	Cabinet Resolution (W×H)	768×432	640×360	512×288	384×216
	Cabinet Size (mm)(W×H×D)	960 × 540 × 76			
	Overall Weight (kg)	18			
OPTICAL PARAMETERS	Pixel Density (dots/m²)	640, 000	444,444	284,444	160, 000
	Frame Rate (Hz)	50/60	50/60	50/60	50/60
	Refresh Rate (Hz)	3840-7680	3840-7680	3840-7680	3840-7680
	Brightness (nits)	≥4000	≥4000	≥4000	≥4000
	Gray Scale (bit)	14-16	14-16	14-16	14-16
	Contrast Ratio	20,000:1			
	Color Temp (K)	2000~12,000K			
ELECTRICAL PARAMETERS	Max. Power Consumption (W/m²)	≤650	≤650	≤650	≤650
	Avg. Power Consumption (W/m²)	≤220	≤220	≤220	≤220
	Working Voltage (V)	AC: 110V~240V, 50~60Hz			
ADDITIONAL FEATURES	Lifetime (Hrs)	100,000			
	Operation Humidity (RH)	10%~90%			
	Operation Temp (RH)	-20~+50			
	IP Level	IP65			

The parameter index will change according to the specific situation of the project (the product shall be subject to the submitted contract specification)

COB

PHYSICAL PARAMETERS	Pixel Pitch (mm)	P2.0
	Cabinet Resolution (W×H)	480×270
	Cabinet Size (mm)(W×H×D)	960 × 540 × 76
	Overall Weight (kg)	17
OPTICAL PARAMETERS	Pixel Density (dots/m²)	250,000
	Frame Rate (Hz)	50/60
	Refresh Rate (Hz)	3840-7680
	Brightness (nits)	3500-4000
	Gray Scale (bit)	14-16
	Contrast Ratio	20,000:1
	Color Temp (K)	2000~12,000K
ELECTRICAL PARAMETERS	Max. Power Consumption (W/m²)	≤650
	Avg. Power Consumption (W/m²)	≤220
	Working Voltage (V)	AC: 110V~240V, 50~60Hz
ADDITIONAL FEATURES	Lifetime (Hrs)	100,000
	Operation Humidity (RH)	10%~90%
	Operation Temp (RH)	-20~+50
	IP Level	IP65

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NOX PRO Series Specification

SMD

PHYSICAL PARAMETERS	Pixel Pitch (mm)	P2.5	P3.0	P4.0	P5.0
	Cabinet Resolution (W×H)	384×216	320×180	240×135	192×108
	Cabinet Size (mm)(W×H×D)	960 × 540 × 76			
	Overall Weight (kg)	15			
OPTICAL PARAMETERS	Pixel Density (dots/m²)	160, 000	111,111	62, 500	40, 000
	Frame Rate (Hz)	50/60	50/60	50/60	50/60
	Refresh Rate (Hz)	3840-7680	3840-7680	3840-7680	3840-7680
	Brightness (nits)	≥4500	≥4500	≥4500	≥6500
	Gray Scale (bit)	14-16	14-16	14-16	14-16
	Contrast Ratio	7000:1			
	Color Temp (K)	2000~12,000K			
ELECTRICAL PARAMETERS	Max. Power Consumption (W/m²)	≤650	≤650	≤650	≤650
	Avg. Power Consumption (W/m²)	≤220	≤220	≤220	≤220
	Working Voltage (V)	AC: 110V~240V, 50~60Hz			
ADDITIONAL FEATURES	Lifetime (Hrs)	100,000			
	Operation Humidity (RH)	10%~90%			
	Operation Temp (RH)	-20~+50			
	IP Level	IP65			

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