

Product Specification Sheet

Product Series: Nova Series SMD Indoor Display

Product Model: IV6312D-IV6319D

Document Revision History

No	Revision No.	Change Status	Description of Changes (+/-)	Approved By	Date
1	V1.0	C	Creation	Jack Zhang	2025.05.06
2	V1.1	M	Modified the format	Nelson Huan	2025.09.04
3	V1.2	M	Modified the format and Figures	Joyce Dong	2025.09.22
4	V1.3	M	Modification	Gloria	2026.06.08
5	V1.3	M	Modification	Lynn	2026.06.09

*Note on Change Status: C——Creation, A——Addition, M——Modification, D——Deletion

Disclaimer: This document outlines the technical parameters for the standard model within this series. The actual product specifications may vary based on the configuration specified in the sales contract. The images provided are for illustrative purposes only, the actual product may differ.

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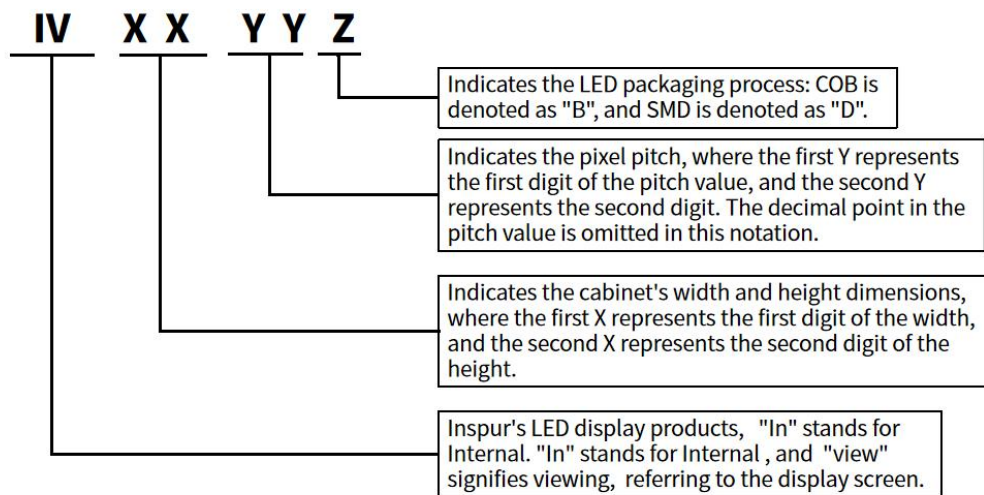
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1. Scope of Application

This specification applies to the LAC Vision Nova series of indoor engineering displays. The cabinet dimensions are 600mm × 337.5mm with a 16:9 display aspect ratio. Unless otherwise specified, any subsequent reference to "the product" in this document denotes the Nova series engineering display. The content described herein represents typical values for the standard product. Customization is available based on actual requirements.

2. Naming Rules



Example: The model IV6309D denotes an LAC Vision indoor fine-pitch LED display with a cabinet size of 600mm x 337.5mm, featuring a 0.9mm pixel pitch and SMD packaging technology.

3. Product Introduction

The LAC Vision Nova Series fine-pitch LED engineering display is not merely an upgrade over traditional large-pitch LED screens, but a solution tailored for high-end indoor applications. With its exceptional display performance, it is reshaping the market landscape. This product boasts high brightness that effectively counteracts ambient light interference, ensuring clear visibility. Its high resolution, high contrast ratio, and wide color gamut deliver an ultra-clear visual experience with finer

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details and more lifelike colors. The rigid connection design guarantees more stable signal transmission. Featuring slim cabinets and excellent flatness, it achieves truly seamless splicing, making it the ultimate solution for large-scale displays in the micro-display era.



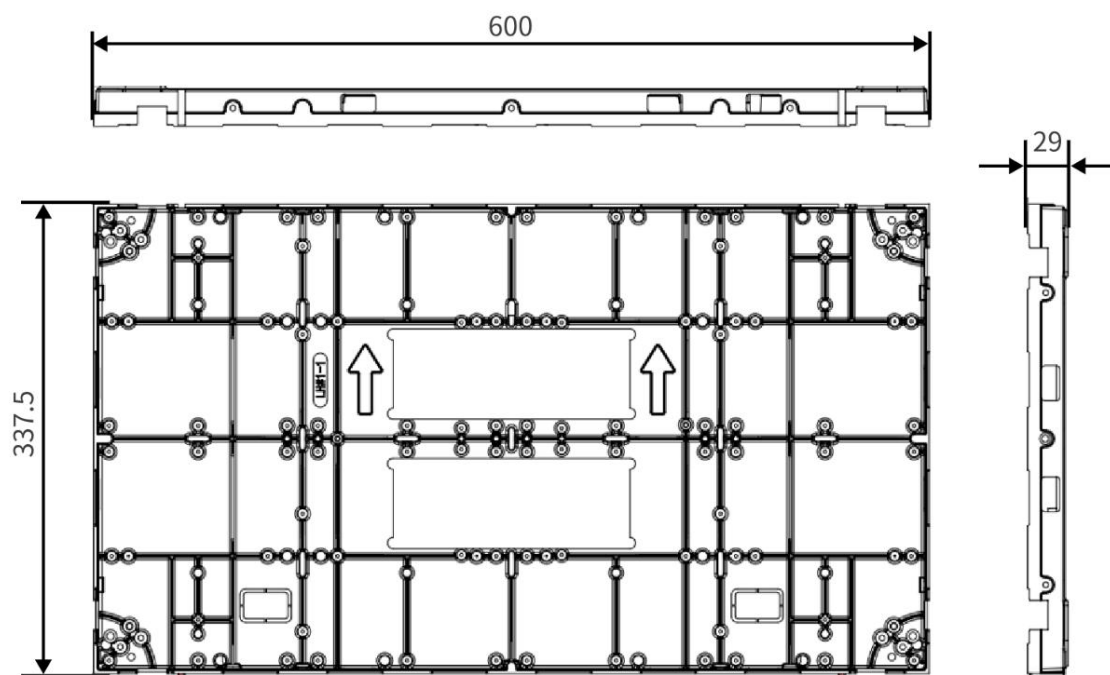
3.1 Product Features

- 16:9 slim design, features a lightweight and slim profile that saves installation space and offers the optimal viewing aspect ratio.
- Nanosecond response time eliminates ghosting and smearing for fast-moving content.
- 3840Hz high refresh rate ensures flicker-free and black-line-free capture under cameras, resulting in exceptionally smooth and detailed imagery.
- Broadcast-level grayscale processing, enhances image detail and overall picture expressiveness for superior depth and realism.
- Low heat generation & efficient cooling, operates with minimal noise for a super-quiet environment.
- High brightness & high contrast, delivers an excellent viewing experience with distinct layers between bright and dark areas.
- Ultra-wide viewing angle maintains consistent, high-quality image performance from a wide range of angles.
- Modular design enables flexible installation configurations to suit various space requirements.

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- Front maintenance supports flush-to-wall installation, simplifying access and saving space.
- Seamless splicing, achieves a truly unified and continuous display canvas with no visible gaps.
- Cableless connection design provides enhanced stability for reliable signal transmission.
- Long service life boasts a lifespan of up to 100,000 hours with a low failure rate.

3.2 Product Dimensions



Unit: mm

4. Product Parameters

Nova Series SMD Indoor Display				
Module Composition	Model	IV6312D	IV6315D	IV6319D
	Pixel Configuration	1R1G1B	1R1G1B	1R1G1B
	LED Package	SMD1010	SMD1212	SMD1515
	Pixel Pitch (mm)	1.25	1.5625	1.875
	Module Resolution (W×H)	240×135	192×108	160×90

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	Module Size (W×H) (mm)	300×168.75		
Cabinet	Cabinet Module Composition	2×2		
	Unit Resolution (W×H)	480×270	384×216	320×180
	Unit Size (W×H×D) (mm)	600×337.5×31.5		
	Unit Weight (kg)	4.5 kg		
	Pixel Density (dot/m ²)	640000	409600	284444
	Maintenance Method	Front Maintenance		
	Cabinet Material	Die-Cast Aluminum		
	Flatness	≤0.1mm		
Optical Parameters	Pixel Calibration	Supports Pixel-by-Pixel Luminance and Chromaticity Correction		
	Brightness (cd/m ²)	600		
	Color Temperature (K)	6500 (Adjustable from 2000K to 9500K)		
	Viewing Angle	Horizontal 160° / Vertical 160°		
	Luminance Uniformity	≥98%		
	Chromaticity Uniformity	Within ±0.003 Cx, Cy		
	Maximum Contrast Ratio	5000:1		
	Dead Pixel Rate	≤0.0001, 0 at Factory Setting		
Electrical Parameters	Peak Power Consumption	≤430		
	Average Power Consumption	≤135		
	Power Supply Requirements	AC 100-240V (50/60Hz)		
Processing Performance	Driving Method (Constant Current)	1/60 S	1/54 S	1/45 S
	Frame Change Frequency	50/60Hz		
	Refresh Rate (Hz)	≥3840		
	Processing Depth (bit)	14		
	Brightness Control	Manual/Automatic/Programmable Control		
Use Parameters	Typical Lifespan (h)	≥100000		
	Operating	-10°C–40°C/10%-80%RH (no condensation)		

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	Temperature/Humidity	
	Storage Temperature/Humidity	-20°C–60°C/10%-85%RH (no condensation)

5. Precautions

Item	Description
Operating Temperature Range	Environmental Temperature: -10°C to 40°C. For temperatures outside this range, temperature control equipment must be added to ensure the temperature remains within the allowable limits. Operating Surface Temperature: ≤60°C. If the temperature exceeds this limit, temperature control equipment is required.
Storage Temperature Range	-20°C to 60°C. For temperatures outside this range, temperature control equipment must be added to ensure the temperature remains within the allowable limits.
Operating Humidity Range	10% to 80% RH. If humidity exceeds this range, dehumidification of the usage environment is required before normal operation.
Storage Humidity Range	10% to 85% RH. If humidity exceeds 80% RH, dehumidification treatment is necessary.
Handling of Overdue Storage	If the product remains in an unopened box for more than one month or is powered off for more than 48 hours after unboxing, it must undergo a 6-hour aging process before use. The aging procedure is as follows: set to full brightness at 10% for 1 hour, 30% for 1 hour, 60% for 2 hours, 80% for 1 hour, and 100% for 1 hour (gradually increasing brightness aging).
Dust Prevention Requirements	The backside has an IP3X rating. It should not be exposed to dusty environments, such as sandy outdoor areas or high-dust indoor workshops. Special protection for the display cabinet is required.
Corrosion-Resistant Gas Protection	Environments containing salt or acid gases in the air can cause corrosion of electronic components and crystalline leakage currents.
Electromagnetic Radiation Protection	Modules should not be placed in environments where electromagnetic or radio frequency radiation exceeds an electric field strength of 5 V/m.
Anti-static	In humid environments, static electricity can damage electronic components and pose a risk of electric shock. Take precautions to avoid leakage currents.
Shock Resistance	The display should be installed on a sturdy and reliable structure free from strong vibrations.
Keep Away from Water Sources	The backside has an IPX0 rating and cannot be installed unprotected. Water conductivity can cause short circuits, leading to component damage. Keep away from water sources.
Personal Injury Prevention	Modules should be installed at a suitable angle and height. Sharp edges must be covered to prevent injury.
Safety	Ensure the stability of the power supply system, maintaining normal levels of frequency, voltage,

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Requirements	and current harmonics. When multiple LED display cabinets are spliced together, their metal casings should be grounded along with the metal installation frame. The overall system grounding resistance should not exceed 1Ω , with leakage current to ground not exceeding 5% of the input current. The electrical strength must comply with SJ/T 11141-2017 "General Specification for Light Emitting Diode (LED) Displays" section 5.7.5.
Others:	This product is designed for standard indoor use. Due to its specific construction, avoid physical contact to prevent damage.

Note:

The above parameters represent typical values for the product. Variations may occur across different production batches, and the actual parameters of the product shall be subject to the factory inspection report.

During the product manufacturing process, continuous optimization and iteration are carried out, and the product specifications may be adjusted at any time. Please consult with regional agents before making a purchase.

For customized products, a new specification sheet needs to be issued.

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