

Product Specification Sheet

Product Series: Flux Series Indoor Module

Product Model: LCXXSNPXXX

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	Joyce Dong	2025.09.22
4	V1.2	M	Modification	Gloria	2026.06.08
5	V1.2	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.

This document provides the technical specifications and images for the standard model, serving merely as a reference. The actual terms and details shall be governed by the contract.

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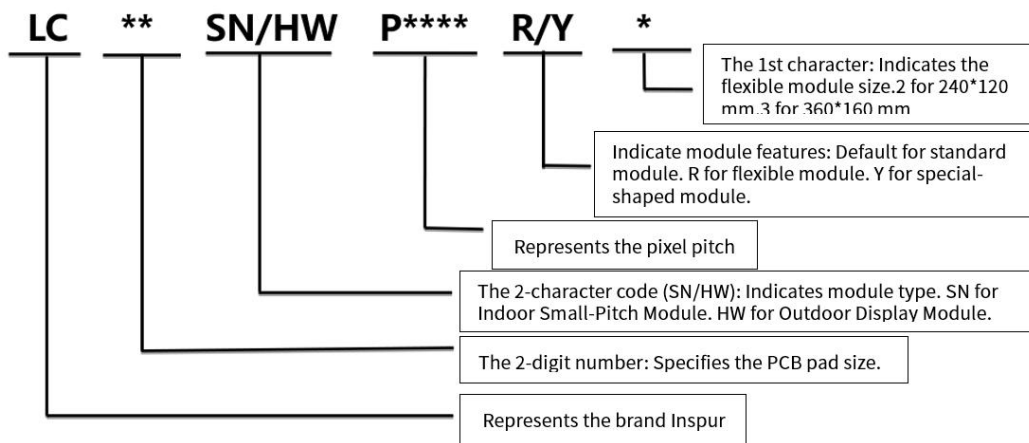
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1. Scope of Application

This specification is applicable to the LAC Vision Flux series indoor standard LED displays, featuring 320*160 modules. Unless otherwise specified, any subsequent references to the "product" in this document refer to the Flux series indoor standard LED displays. All the content described in this specification represents typical values for standard products. If there are special requirements, corresponding customization can be carried out based on the actual situation.

2. Naming Rules



Example: LC12SNP1538 refers to an indoor fine-pitch standard LED module independently developed by LAC Vision, with a pixel pitch of 1.538mm.

3. Product Introduction

The LAC Vision Flux Series indoor fine-pitch LED module incorporates advanced HDR digital image technology, delivering a high-definition display with exceptional detail, vibrant and lifelike colors. It accurately renders high-definition images, videos, and complex charts with outstanding clarity, providing an exceptional visual experience. The product features high brightness and a high contrast ratio, ensuring optimal visibility in both darkroom environments and under strong ambient light. Its ultra-wide viewing angle guarantees consistent, high-quality image performance from virtually any perspective. Designed

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with a strong emphasis on reliability, the module offers a long operational lifespan. The modules support flexible splicing into various shapes. Utilizing precision splicing technology, they achieve a near-seamless effect with natural and smooth image transitions and no visible seams, fulfilling diverse and creative display requirements.



3.1 Product Features

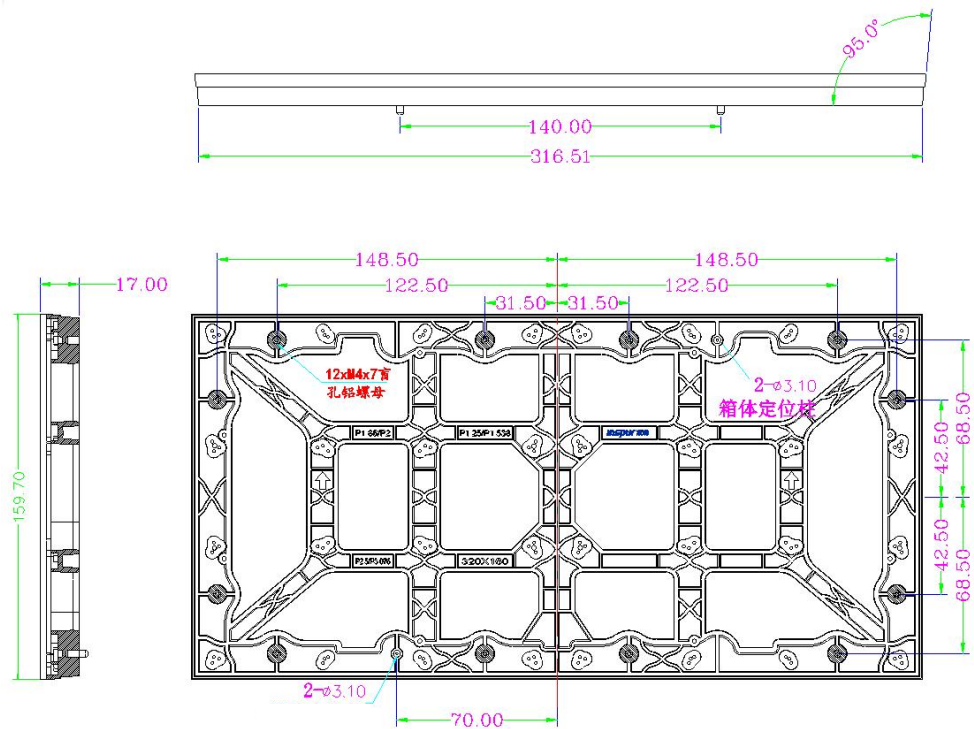
- Nanoscale response time, eliminating ghosting and trailing effects
- Uniform ink color with excellent consistency
- 3840Hz high refresh rate, ensuring flicker-free and black-line-free shooting, with more delicate displayed images
- Broadcast-grade grayscale processing for richer image details and stronger visual expression
- Ultra-wide viewing angle of over 140°, delivering high-quality visuals from various angles
- High brightness and high contrast, providing an outstanding visual experience with distinct light and dark layers in the images
- Modular design for flexible installation
- Capable of seamless tiling in any direction and size, achieving truly integrated displays with uniform images and no visible seams
- Screen lifespan of up to 100,000 hours, with a low failure rate

3.2 Module Images

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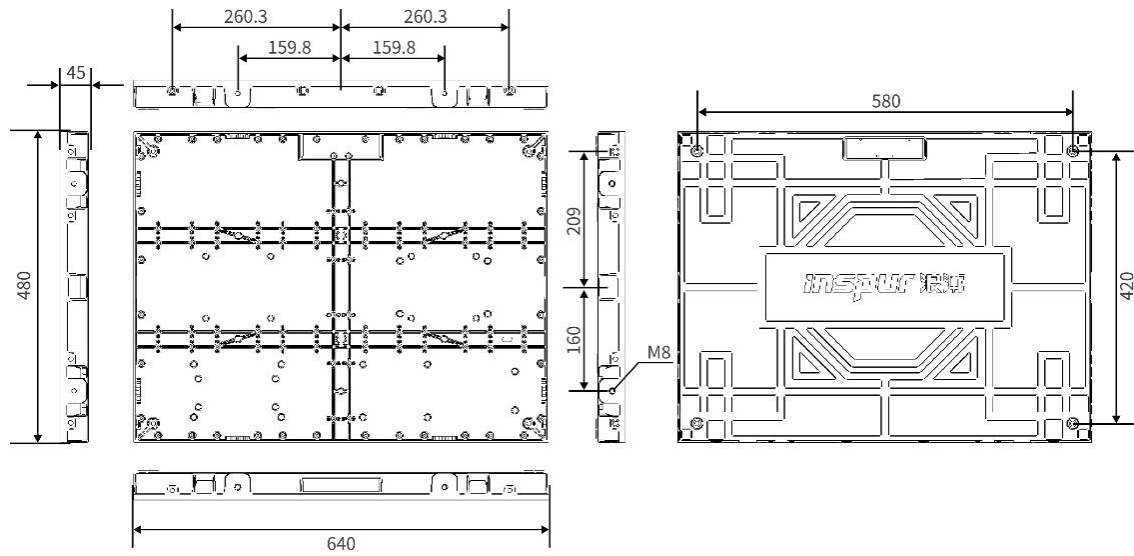


3.3 Product Dimensions



Module
dimensions

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Unit: mm

Cabinet dimensions

Note: In conventional modular screen projects, the use of die-cast aluminum cabinets can effectively improve overall flatness.

4. Product Parameters

Flux Series Indoor Module						
Model Number		LC10SNP 125	LC12SNP 1538	LC15SNP 186	LC15SNP20	LC20SNP25
Module	Pixel Structure	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B
	LED Package	SMD1010	SMD1212	SMD1515	SMD1515	SMD2020
	Pixel Pitch (mm)	1.25	1.538	1.86	2.0	2.5
	Module Resolution (W×H)	256×128	208×104	172×86	160×80	128×64
	Module size (W×H×D)	320×160X17				
	Module Power Consumption (W)	≤30				
	Input Voltage	4.5V~5V				
	Module Weight (kg)	0.53				
Cabinet	Composition of	3×2				

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	Unit Modules					
	Unit Resolution (W×H)	512×384	416×312	344×258	320×240	256×192
	Cabinet Dimensions (mm)	640×480×61				
	Unit Weight (kg)	4.5				
	Pixel Density (dot/m ²)	640000	422500	288906	250000	160000
	Maintenance Method	Front Maintenance				
	Cabinet Material	Die-Cast Aluminum				
	Flatness	≤0.1mm				
Optical Parameters	Pixel Calibration	Pixel-Level Brightness & Color Uniformity Correction				
	Brightness (cd/m ²)	600				
	Color Temperature	6500 K (Adjustable from 2000 K to 95000 K)				
	Viewing Angle	Horizontal 140° / Vertical 140°				
	Luminance Uniformity	≥97%				
	Center-to-Center Pitch Deviation of Emission Points	<3%				
	Maximum Contrast Ratio	5000:1				
	Dead Pixel Rate	≤0.0001, Initial Value: 0				
Electrical Parameters	Peak Power Consumption	≤600				
	Average Power Consumption	≤195				
	Power Supply Requirements	AC186~264V, Frequency 47~63Hz				
Processing Performance	Scanning Method	1/64 S	1/52 S	1/43 S	1/40 S	1/32 S
	Frame Replacement Frequency	50/60Hz				
	Refresh Rate	≥3840Hz				
	Processing Depth (bit)	14				

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	Brightness Control	Manual/Automatic/Programmable Control
Use parameters	Typical Lifespan (h)	≥50000h
	Operating Temperature/Humidity	-10°C–40°C/10%-65%RH (no condensation)
	Storage Temperature/Humidity	-20°C–50°C/10%-70%RH (no condensation)

5. Precautions

Item	Description
Operating Temperature Range	Ambient Temperature: -10°C to +40°C. Temperature control equipment is required if the ambient temperature falls outside this range to ensure it remains within allowable limits. LED Module Surface Temperature (During Operation): ≤60°C. Temperature control equipment is required if this temperature limit is exceeded.
Storage Temperature Range	Ambient Temperature: -20°C to +50°C. Temperature control equipment is required if the ambient temperature falls outside this range to ensure it remains within allowable limits.
Operating Humidity Range	10% to 65% RH. Dehumidification of the operating environment is required if the humidity level exceeds this limit to ensure normal operation.
Storage Humidity Range	10% to 70% RH. If the humidity exceeds 80% RH, dehumidification measures must be implemented.
Handling of Overdue Storage	An aging process is required before initial use if the product has been stored in its original, unopened packaging for over one month, or has been powered off for more than 48 hours after unpacking. The aging procedure involves operating the display at progressively increasing brightness levels as follows: begin at 10% brightness for 1 hour, followed by 30% for 1 hour, then 60% for 2 hours, then 80% for 1 hour, and finally 100% brightness for 1 hour. This gradual intensity increase ensures stable performance.
Dust Prevention Requirements	The display cabinet boasts an IP3X rating for dust protection on its rear side. However, it should not be exposed to environments with excessive dust, such as sandy outdoor areas or high-dust indoor workshops. In such conditions, special protective measures for the display cabinets are mandatory.
Corrosion-Resistant Gas Protection	Corrosive gases can cause corrosion and crystal leakage in electronic components.
Electromagnetic Radiation Protection	The display should not be installed in environments where electromagnetic or radio frequency radiation exceeds a field strength of 5V/m.
Anti-static	It prevents damage to electronic components caused by static electricity in humid environments and

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	also avoids electrical leakage that could harm the human body.
Shock Resistance	The display screen should be mounted on a sturdy and reliable installation structure that is free from intense vibrations.
Keep Away from Water Sources	The rear side of the display has a waterproof rating of IPX0 and therefore must not be installed without adequate protection. Since water is conductive and can cause short circuits, leading to damage of electronic components, the display must be kept away from any water sources.
Personal Injury Prevention	To prevent personal injury, the modules must be installed at an appropriate angle and height. Additionally, any sharp edges or corners must be covered or padded to prevent injury caused by the rigid cabinet structure.
Safety Requirements	It is essential to ensure the stability of the power supply system, maintaining normal levels of frequency, voltage, and current harmonics. The metal components of the display screen, the housing of the switching power supply, and the enclosure must be properly grounded, with attention given to ensuring that the grounding resistance is $\leq 1\Omega$. Additionally, the leakage current to ground should not exceed 5% of the input current. The electrical strength should comply with the provisions of Section 5.7.5 in the SJ/T11141-2017 General Specification for Light Emitting Diode (LED) Displays.
Others:	This product is designed for standard indoor use. Due to its specific manufacturing process, 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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