

Product Specification Sheet

Product Series: Floor Display

Product Model: LC(025-039)D-C

Document Revision History

No	Revision No.	Change Status	Description of Changes (+/-)	Approved By	Date
1	V1.0	C	Creation	Joyce Dong	2025.10.22
2	V1.1	A	Added product parameters and unit board signal interface definitions.	Joyce Dong	2025.11.04
3	V1.1	M	Modification	Gloria	2026.06.08
4	V1.1	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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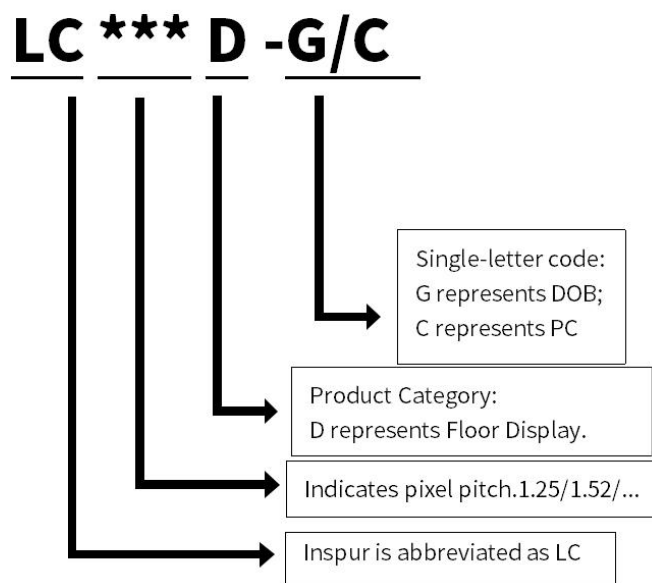
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1. Scope of Application

This technical manual applies exclusively to the following models of the LAC Vision Floor Display series: LC025D-C, LC026D-C, LC029D-C, and LC039D-C. The specifications provided below correspond to standard product configurations. Customization is available for specific requirements.

2. Naming Rules



Example: LC025D-C is an LAC Vision Floor Display, a PC series product with a pixel pitch of 2.5mm.

3. Product Introduction

The LAC Vision Floor Display PC Series is an indoor LED product with cabinet dimensions of 502mm x 502mm or 502mm x 1004mm. This product offers two cabinet options: die-cast aluminum and self-designed sheet metal. Both provide exceptional load-bearing capacity, reaching up to 2 tons/m², and feature an IP54 waterproof rating, ensuring reliable performance even in harsh environments. The surface utilizes PC material, providing wear and pressure resistance, waterproofing, anti-slip properties, and anti-glare. With support for built-in chip interactivity, it is an ideal choice for creating immersive exhibition halls, interactive stages, technology pavilions, and branded creative spaces.

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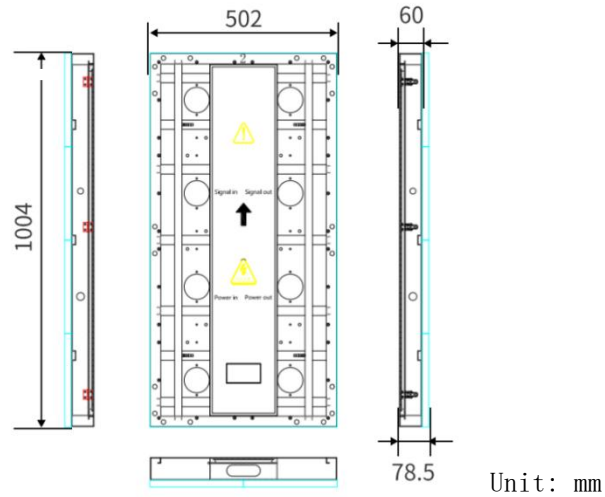


3.1 Product Features

- High brightness, high contrast, high refresh rate, and ultra-wide viewing angle deliver smooth images and excellent display performance.
- High protection rating with PC, providing wear resistance, pressure tolerance, and anti-glare, suitable for harsh environments.
- Excellent shock resistance, anti-slip, and flame-retardant properties, oxidation and UV resistance effectively delay aging.
- High load-bearing design, capable of withstanding approximately 2 tons, unaffected even under vehicle compression.
- Cabinets support fine adjustment for correcting height differences between adjacent units, ensuring flat display surface.
- Equipped with infrared sensing and distance detection technologies to recognize human touch and footsteps, enabling real-time interactive visual effects.

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3.2 Product Dimensions



(Dimension diagram based on 502mm×1004mm cabinet example)

4. Product Parameters

Floor Display Series - PC Edition (500×500 Cabinet)					
	Model	LC025D-C	LC026D-C	LC029D-C	LC039D-C
Module	Pitch(mm)	2.5	2.6	2.9	3.9
	LED Model	SMD1515	SMD1415	SMD1415	SMD1921
	LED Type	Copper Wire			
	Module Resolution	100×100	96×96	84×84	64×64
	Module Size（W×H×D） (mm)	250.85×250.85×19（±0.5）		250.85×250.85×19 / 249.8×249.8×19 (±0.5)	
	Module Weight（kg）	0.83±0.3			
	Pixel Density(dot/m²)	160000	147456	112896	65536
	Maintenance Method	Rear Maintenance	Rear Maintenance	Rear/Front Maintenance	Rear Maintenance
Single Cabinet	Cabinet Dimensions （W×H×D）(mm)	499.9×999.9×60（±0.5）		499.9×499.9×60 / 499.9×499.9×72 (±0.5)	
	Single Cabinet Flatness（mm）	≤0.2			
	Cabinet Material	Die-Cast Aluminum			
	Single Cabinet Weight (kg)	8.5±0.5		8.5±0.5/9.5±0.5	
Complete Unit Cabinet	Cabinet Module Composition	2×2			
	Cabinet Resolution	200×200	192×192	168×168	128×128

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	Complete Unit Cabinet Dimensions（W×H×D） (mm)	502×502×79 （±0.5）		502×502×79 / 500×500×89 (±0.5)	
	Complete Unit Cabinet Weight （kg）	11.5±0.5		11.5±0.5/12.5±0.5	
	Maintenance Method	Front Maintenance			
	Cabinet Flatness （mm）	≤0.5			
	Maximum Load Capacity (3x Safety Factor)	2000			
Optical Parameters	Single-Point Brightness Calibration	Supported			
	Single-Point Chromaticity Calibration	Supported			
	White Balance Luminance (cd/m²)	≥1200			
	Color Gamut （BT2020.）	≥80%	≥80%	≥85%	≥80%
	Color Temperature （K）	6500±500			
	Horizontal Viewing Angle	160°±10°			
	Vertical Viewing Angle	160°±10°			
	Luminance Uniformity	≥97%			
	Chromaticity Uniformity	≤0.003			
	Contrast Ratio	≥3000:1			
	Viewing Distance (m)	≥2			
Electrical Parameters	Cabinet Maximum Power Consumption (W)	≤200			
	Cabinet Maximum Power Consumption (W/m²)	≤300			
	Maximum Active Power Consumption (W/m²)	≤680			
	Power Supply Requirements	AC200-240V@3A			
Processing Performance	Scanning Method	1/25	1/32	1/42	1/32
	Frame Change Frequency	60Hz			
	Refresh Rate (Hz)	≤3840			
	Drive Method	Constant Current Drive			
	Grayscale （bit）	14			

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System Control	Control Method	Ethernet Port
	Control Distance	Cat5e Twisted Pair Cable, use fiber optic transmission for distances over 100 meters
	Signal Input	HDMI、DVI
	Brightness Adjustment	Manual / Automatic / Programmable Control
Operating Parameters	Continuous Operating Time	≥ 5,000 hours, supports continuous uninterrupted display
	Mean Time Between Failures	≥50000 hours
	Discrete Failure Pixels	0 at factory setting
	Continuous Failure Pixels	0 at factory setting
	Dead Pixel Rate	0 at factory setting
	Screen Temperature Rise (Operating State)	≤60
Usage Parameters	Typical Lifespan (hrs)	50000
	Operating Temperature Range	-20°C~+40°C
	Storage Temperature Range	-20°C~+60°C
	Operating Humidity Range	10-60%RH (No Condensation)
	Storage Humidity Range	10-60%RH (No Condensation)
	Protection Rating	IP54
	Certification	Complies with CCC, CE, and FCC certifications, and meets EU ROHS requirements.

Floor Display Series - PC Edition (500×1000 Cabinet)					
	Model	LC025D-C	LC026D-C	LC029D-C	LC039D-C
Module	Pitch(mm)	2.5	2.6	2.9	3.9
	LED Model	SMD1515	SMD1415	SMD1415	SMD1921
	LED Type	Copper Wire			
	Module Resolution	100×100	96×96	84×84	64×64
	Module Size（W×H×D）(mm)	250.85×250.85×19（±0.5）		250×250×19（±0.5）	
	Module Weight（kg）	0.83±0.3Kg			
	Pixel Density(dot/m²)	160000	147456	112896	65536
	Maintenance Method	Rear Maintenance			
Single Cabinet	Cabinet Dimensions（W×H×D）(mm)	499.9×999.9×60（±0.5）			
	Single Cabinet Flatness（mm）	≤0.5			
	Cabinet Material	Sheet Metal Cabinet			

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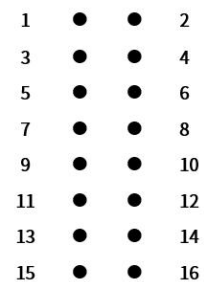
	Single Cabinet Weight (kg)	16±0.5			
Complete Unit Cabinet	Cabinet Module Composition	2×4			
	Cabinet Resolution	200×400	192×384	168×336	128×256
	Complete Unit Cabinet Dimensions (W×H×D)	502×1004×79 (±0.5)			
	Complete Unit Cabinet Weight (kg)	21±0.5			
	Maintenance Method	Front Maintenance			
	Cabinet Flatness (mm)	≤0.5			
	Maximum Load Capacity (3x Safety Factor)	2000			
Optical Parameters	Single-Point Brightness Calibration	Supported			
	Single-Point Chromaticity Calibration	Supported			
	White Balance Luminance (cd/m²)	≥1200			
	Color Gamut (BT2020.)	≥85%			
	Color Temperature (K)	6500±500			
	Horizontal Viewing Angle	140°±10°			
	Vertical Viewing Angle	140°±10°			
	Luminance Uniformity	≥97%			
	Chromaticity Uniformity	≤0.003			
	Contrast Ratio	≥3000:1			
	Viewing Distance (m)	≥2			
Electrical Parameters	Cabinet Maximum Power Consumption (W)	≤400			
	Cabinet Maximum Power Consumption (W/m²)	≤200			
	Maximum Active Power Consumption (W/m²)	≤680			
	Power Supply Requirements	AC200-240V@2.5A			
Processing Performance	Scanning Method	1/25	1/32	1/42	1/32
	Frame Change Frequency	60Hz			
	Refresh Rate (Hz)	≤3840			
	Drive Method	Constant Current Drive			
	Grayscale (bit)	14			
System Control	Control Method	Ethernet Port			
	Control Distance	Cat5e Twisted Pair Cable, use fiber optic transmission for distances over 100 meters			
	Signal Input	HDMI、DVI			
	Brightness Adjustment	Manual / Automatic / Programmable Control			

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Operating Parameters	Continuous Operating Time	≥ 5,000 hours, supports continuous uninterrupted display
	Mean Time Between Failures	≥50000 hours
	Discrete Failure Pixels	0 at factory setting
	Continuous Failure Pixels	0 at factory setting
	Dead Pixel Rate	0 at factory setting
	Screen Temperature Rise (Operating State)	≤60
Usage Parameters	Typical Lifespan (hrs)	50000
	Operating Temperature Range	-20°C~+40°C
	Storage Temperature Range	-20°C~+60°C
	Operating Humidity Range	10-60%RH (No Condensation)
	Storage Humidity Range	10-60%RH (No Condensation)
	Protection Rating	IP54
	Certification	Complies with CCC certification

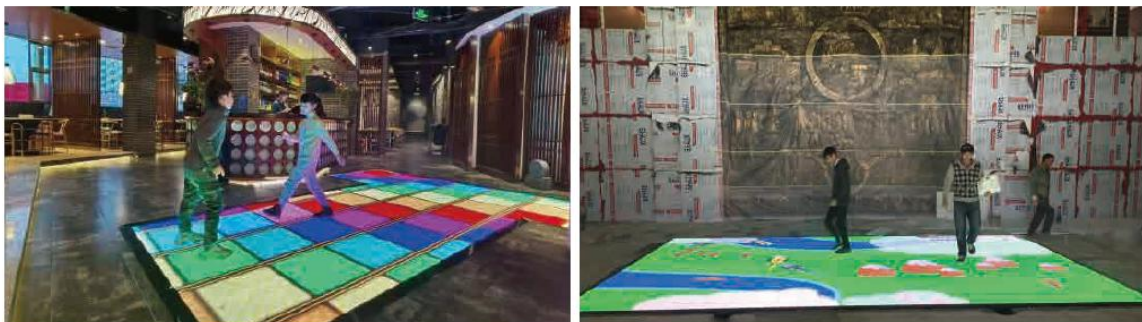
5. Signal Interface Definition of Unit Panel

Pin	Signal	Function	Pin	Signal	Function
1	R1	Red Data Signal 1	2	G1	Green Data Signal 1
3	B1	Blue Data Signal 1	4	GND	Power Ground
5	R2	Red Data Signal 2	6	G2	Green Data Signal 2
7	B2	Blue Data Signal 2	8	E	Power Ground
9	A	Row Control Signal	10	B	Row Control Signal
11	C	Row Control Signal	12	D	Row Control Signal
13	CLK	Clock Signal	14	LAT	Latch Signal
15	OE	Enable Signal	16	GND	Power Ground



(Note: The unit board signal interface definition is for reference only and may vary between different models.)

6. Application Scenarios



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7. Precautions and Troubleshooting

Item	Description
Operating Environment	1. Temperature & Humidity: Operating temperature range: -20°C to 40°C, humidity range: 10% to 60% RH. 2. Avoid Extreme Conditions: Do not use or store in high-temperature, high-humidity, or highly acidic/alkaline/salty environments. 3. Hazard Prevention: Keep away from flammable materials, gases, corrosive substances, and dust during use. 4. Transportation Precautions: Avoid strong impacts and contact with sharp objects during transportation. 5. Heat Management: If ambient temperature is too high or heat dissipation is insufficient, avoid prolonged screen operation. 6. Humidity Risks: Using the LED product beyond specified humidity levels may cause component corrosion or short circuits, leading to damage. 7. Contamination Prevention: Do not allow water, iron powder, or other conductive metals to enter the display. The LED screen should be placed in a low-dust environment, as excessive dust can affect display performance and damage circuits. If water enters the display, power off immediately and do not reuse until all internal components are completely dry. 8. Surface Protection: The screen surface is made of plastic material. Do not place cigarette butts or high-temperature objects directly on it to prevent damage and safety hazards.
Power On/Off Sequence:	1. Power On: Turn on the computer first, then power on the LED display. 2. Power Off: Turn off the LED display first, then shut down the computer. (If the computer is shut down without turning off the display first, bright spots may appear on the screen, potentially damaging LED chips and driver ICs, leading to serious consequences.) 3. Interval Requirement: Allow at least 5 minutes between power cycles. Avoid powering on the floor display when the computer screen is entirely white, as this high-power state generates a large inrush current that may impact the entire power distribution system.
Power Supply Requirements:	1. LED modules operate on DC power. AC power input is strictly prohibited. Ensure correct polarity of power terminals, reverse connection may cause product damage or severe fire hazards. 2. Ensure reliable safety grounding. Ground and neutral wires must be properly isolated. Connect power sources away from high-power equipment. 3. If abnormalities such as short circuits, tripping, cable burns, or smoke occur, do not repeatedly attempt power-on tests. Resolve the issue completely before re-energizing. 4. Maintain stable supply voltage and implement lightning protection grounding. Avoid operation under extreme weather conditions, especially during thunderstorms. 5. Implement graded power distribution for the LED floor display to prevent high-power surges

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	affecting the entire electrical system. - Avoid displaying full-white, high-brightness content for over 2 hours, as excessive current may cause cable overheating, LED damage, and reduced display lifespan. Dynamic video content is recommended. - Do not frequently switch the power on/off consecutively. Maintain at least a 1-minute interval between operations. - Non-professionals are prohibited from touching internal wiring to prevent electric shock or circuit damage. Always seek professional assistance for troubleshooting.
Cleaning & Maintenance	- Regular Cleaning: The LED floor display surface tends to accumulate dust and dirt. Clean periodically and promptly to maintain optimal viewing quality. - Surface Cleaning Method: Use a soft-bristled brush to gently clean the module surface. Do not use hard objects or corrosive liquids, as these may damage the surface layer. - Proper Wiping Procedure: Use a damp cloth with plain water, a soft brush, or a vacuum for dust removal. Do not clean directly with alcohol or corrosive solvents to avoid surface damage or discoloration. Always disconnect power before cleaning. Wring out the mop or cloth thoroughly, no standing water should be used. Do not use cleaning machines. Allow at least 1 hour after cleaning before powering on the display.
Moisture Protection and Storage Requirements	- Storage Temperature Requirements: Ambient temperature range: -20°C to 60°C. After opening the packaging, LED products must be stored in an environment with temperature <60°C and humidity <60% RH. - Pest Prevention: Based on the environment where the display screen and control components are located, measures should be taken to avoid insect infestation and rodent damage. - Regular Operation Requirement: LED floor displays should not remain powered off for extended periods. If not used for prolonged periods, they should be powered on once a week, each time operating for at least 1 hour before shutting down, to prevent moisture damage from prolonged inactivity. - Preheating Procedures for High Humidity Environments: If the display remains unused for over 15 days in high humidity conditions, use the following preheating method: operate at 30%-50% brightness for 4-8 hours first, then adjust to normal brightness (80%-100%) to eliminate moisture and ensure normal operation. If the display remains unused for over 30 days in high humidity conditions, use the following preheating method: operate at 30%-50% brightness for at least 12 hours first, then adjust to normal brightness (80%-100%) to eliminate moisture and ensure normal operation.
Troubleshooting	- Incorrect driver program loaded. Reload the correct driver program. - The Ethernet cable between the computer and the screen is too long or faulty (Recommended

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	maximum length for Cat5e cable is ≤ 100 meters). 3. Sending box or transmission card failure. Replace the sending box or transmission card. 4. Receiving card failure. Check if the indicator light on the receiving card is lit. If not, replace the receiving card. 5. Check for short circuits or open circuits in the wiring between the power supply and the control card. 6. Unstable output voltage/current from the power supply. Replace the power supply. 7. Troubleshooting Full-Screen Speckles, Image Distortion, and Flickering: 1) Incorrect driver program. Re-inspect the driver loading program, or uninstall and reinstall it. 2) Sending box or transmission card failure. The sending box or transmission card needs to be replaced. 3) Irregular flickering is generally a system frequency issue. Replace the system, or adjust configuration parameters to resolve the fault. 4) Sporadic, pinpoint flickering could be a graphics card driver issue, or possibly a transmission card resolution setting problem. 5) Power supply issues (insufficient power capacity, signal noise, electromagnetic interference). 6) If accompanied by text flickering (irregular white edges around the text, irregular flickering that disappears after the text disappears), check graphics card settings. In the display properties, disable "Show shadows under menus" and "Smooth edges of screen fonts" to resolve this issue.
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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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