Product

Specification Sheet

Product Series: Transparent Film Display

Product Model: LCJM**T**

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.

Document Revision History

No	Revision No.	Change Status	Description of Changes (+/-)	Approved By	Date
1	V1.0	C	Creation	Jeremy Wong	2024.10.15
2	V1.1	M	Modified the format and content of the specification	Kevin Meng	2025.09.19
3	V1.2	M	Modified product brightness parameters	Joyce Dong	2025.10.16
4	V1.3	M	Modified naming rules and product parameters.	Joyce Dong	2025.12.02

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

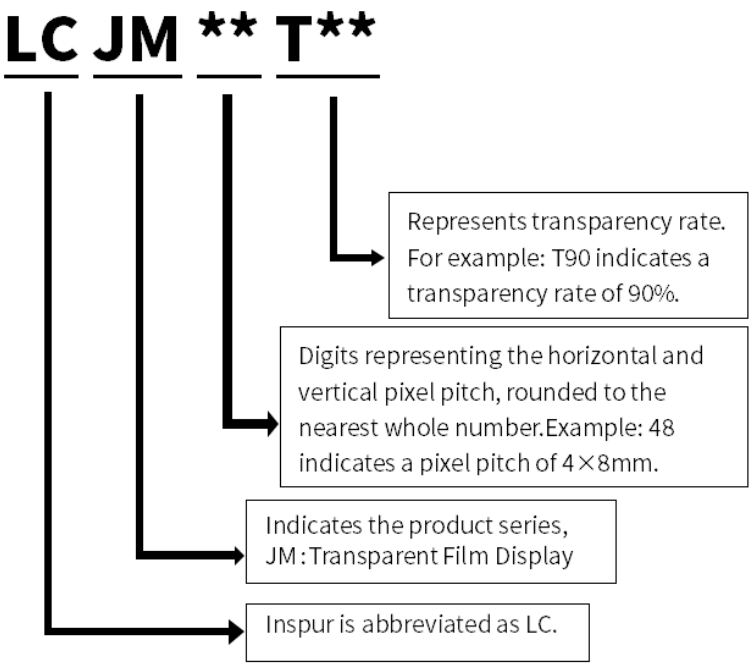
Disclaimer: This document outlines the technical parameters for the standard model within this series. The actual product specifications may vary based on the configuration specified in the sales contract. The images provided are for illustrative purposes only, the actual product may differ.

Contents

1. Scope of Application

This technical manual applies exclusively to the following models of the Transparent Film Display series: LCJM44T85, LCJM48T85, LCJM66T85, LCJM88T85, LCJM1010T90, LCJM44T90, LCJM55T91, LCJM66T92, LCJM88T92, LCJM1010T94, LCJM1515T94, and LCJM2020T95. The parameters provided below pertain to standard product configurations. Customization is available for special requirements.

2. Naming Rules



Example: LCJM44T85 represents an Inspur Crystal Film Screen with a pixel pitch of 4×4mm and a transparency rate of 85%.

3. Product Introduction

Inspur LED Transparent Film Display is an innovative display product utilizing ultra-thin flexible substrate technology. The transparent film light board employs transparent crystal film material with etched transparent mesh circuits on the surface, followed by a vacuum

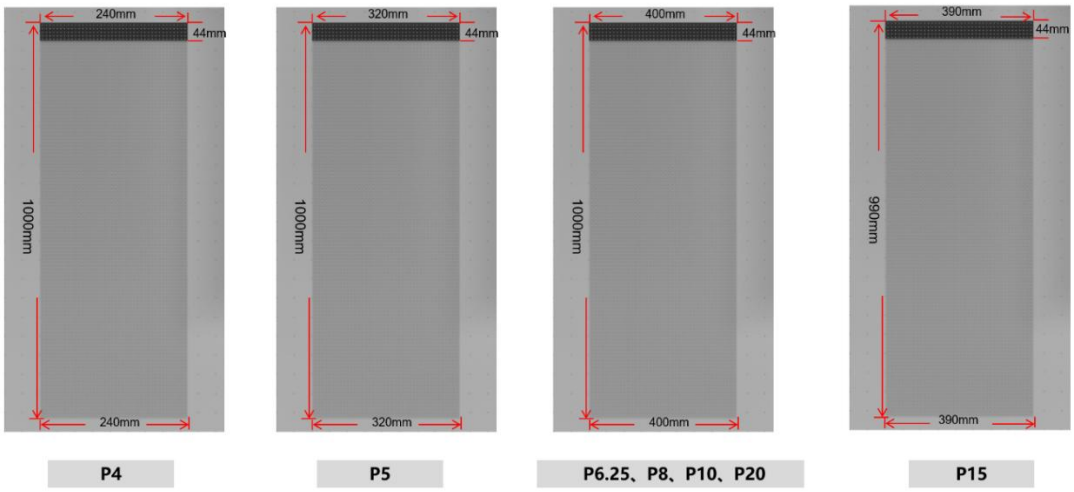
encapsulation process after component placement. Its core innovation lies in the direct packaging of LED chips onto high-transmittance polymer film, delivering exceptional light transmission, slim profile, and strong technological aesthetic. With over 85% transmittance, it seamlessly integrates with glass curtain walls without compromising building lighting, while producing vibrant imagery with enhanced color performance for optimal visual experiences. Widely applied in glass environments including architectural glass curtain walls, display windows, and glass railings, it is particularly suited for premium retail storefronts, automotive showrooms, and digital art installations requiring both transparency and visual impact.

3.1 Product Features

- High transparency: excellent light transmission preserves the see-through effect of glass curtain walls without affecting natural lighting or original architectural design. When powered off, the display seamlessly blends with the building facade.
- Curved display: exceptional flexibility enables bending installation on curved glass or building surfaces, supporting custom-shaped visual presentations.
- Rollable flexibility: can be rolled for storage and unrolled for use, similar to a scroll.
- Fault isolation: individual LED failure does not affect the operation of adjacent LEDs, ensuring continuous display functionality.

- Invisible technology: nano-scale LED chips are encapsulated with transparent, heat-resistant, anti-static, and waterproof film, making light sources and drive components imperceptible to the naked eye without traditional cabinets or masks.
- Customizable cutting: tailored dimensions and shapes available according to project requirements.
- Ultra-light & thin: Featuring an ultra-light and ultra-thin crystal film screen with a thickness of 2-3mm and a weight of ⩽3.5kg/m^2.
- Simple installation: easy peel-and-stick application followed by signal and power connections.
- Wide viewing angle: 160° viewing angle without blind spots due to unobstructed light emission.
- Cost-effective: no steel structure required or building modification needed, reducing transportation and installation costs.

3.2 Product Size



Note: Product dimension diagrams are for reference only. The JM4040 single module can reach a maximum length of 1200mm, while other models have a maximum single-sheet size of 400×1500mm. Please be sure to communicate and confirm with the product department in advance before finalizing your order.

4. Product Parameters

Transparent Film Display					
Model	LCJM44T85	LCJM48T85	LCJM66T85	LCJM88T85	LCJM1010T90
Pixel Structure	1R1G1B				
LED Package	SMD1010 (Integrated LED-Driver)		SMD2121 (Integrated LED-Driver)		
Pixel Pitch（mm）	4×4	4×8	6×6	8×8	10×10
Module Dimensions （L×H）（mm）	1000×240				
Module Resolution （L×H）（dot）	250×60	250×30	166×40	125×30	100×24
Pixel Density（dot/m²）	62500	31250	27556	15625	10000
亮度（cd/m²）	1500	3000	3000	3500	
Transparency Rate	85%	85%	85%	85%	90%
Color Temperature（K）	3200K ~ 8500K（Adjustable）				
Zero Control Grade	0-255 级				
Viewing Angle	Horizontal 140° / Vertical 140°				
Wiring Method	Internal Wiring (Clean Rear Side)				
Signal Interface Method	RJ-45				
Peak Power Consumption （W/m²）	⩽800				
Average Power Consumption（W/m²）	⩽240				
Power Supply Requirements	AC 220V±10%，50Hz				
Input Signal	DVI/VGA、Composite Video				
Frame Change Frequency （Hz）	⩾60 Hz				
Refresh Rate（Hz）	3840				
Processing Depth（bit）	16				

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Screen Control Method	Synchronous Controller (Computer Control) or Asynchronous Controller (WiFi-connected Mobile APP Control, USB Drive Control)
Screen Weight（Kg/m²）	⩽3.5
Protection Rating	IP30
Typical Lifespan（h）	⩾100000
Operating Temperature/Humidity	-20°C ~ 50°C / 10% ~ 90%RH（No-Condensation）
Storage Temperature/Humidity	-40°C ~ 80°C / 10% ~ 90%RH（No-Condensation）
Installation Method	Indoor Surface Mounting or Fixed Installation

Transparent Film Display							
Model	LCJM 44T90	LCJM 55T91	LCJM 66T92	LCJM 88T92	LCJM 1010T94	LCJM 1515T94	LCJM 2020T95
Model Size（mm）	240×1000	320×1000	400×1000	400×1000	400×1000	390×990	400×1000
LED Lamp	REE:1313	REE:1313	REE:1313/ 2121	REE:1313/ 2121	REE:1313/ 2121	REE:2121	REE:2121
Brightness (cd/m²)	2000	2500	2000/4000	2000/4000	2000/4000	3000	3000
Pixel Configuration	R1B1G1	R1B1G1	R1B1G1	R1B1G1	R1B1G1	R1B1G1	R1B1G1
Pixel Pitch（mm）	4×4	5×5	6.25×6.25	8×8	10×10	15×15	20×20
Module Resolution（L×H）(dot)	250×60	200×64	160×64	125×50	100×40	66×26	50×20
Pixel Density (dot/m²)	62500	40000	25600	15625	10000	43565	2500
Transparency Rate	90%	91%	92%	92%	94%	94%	95%
Weight (Kg)	1	1.3	1.3	1.3	1.3	1.3	1.3
Viewing Angle	160°						
Input Voltage	AC 100~240V，50/60Hz						
Peak Power Consumption (W/m²)	600						
Average Power Consumption	200						

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(W/m²)	
Thickness（mm）	2.0
Drive Method	Static
Control System	Nova/Linsn
LED Lifespan（h）	100000
Grayscale Level (bit)	16
Refresh Rate（Hz）	3840
Operating Temperature/Humidity	-20°C ~ 55°C / 10% ~ 90%RH（No-Condensation）

5. Application Scenarios

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6. Precautions

Item		Description
Environmental Precautions	Temperature Requirements	Storage Temperature Range: -40°C to +80°C. Temperature control (heating/cooling) is required if the ambient temperature falls outside this range. Operating Temperature Range: -20°C to +50°C. Temperature control equipment must be installed if the ambient temperature falls outside this range. LED Module Surface Temperature (During Operation): ⩽ 60°C. Temperature control equipment is required if this limit is exceeded.
	Humidity Requirements	Storage Humidity Range: 10% to 90% RH. Dehumidification is required if the humidity exceeds 90% RH. Operating Humidity Range: 10% to 90% RH. Normal operation can only be ensured after dehumidifying the operating environment if the humidity exceeds this limit.
	Handling of Overdue Storage	If the product has been stored unopened for over one month or powered off for more than 48 hours after unpacking, a 6-hour aging process must be performed before normal use. The aging procedure involves gradually increasing the full brightness level as follows: Set to 10% brightness for at least 1 hour, then 30% for at least 1 hour, then 60% for at least 2 hours, then 80% for at least 1 hour, and finally 100% for at least 1 hour. After this sequence, adjust to the normal operating brightness. This gradual heating expels moisture and ensures trouble-free operation.
	Dust Prevention Requirements	The product features an IP3X dust protection rating. To maximize product lifespan, the display should be kept away from dusty environments whenever possible, such as indoor workshops with high dust levels.
	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 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.
	Personal Injury Prevention	The installation angle and height of the display should be appropriate, and sharp edges should be packaged to prevent injury to personnel.
	Special Environment	When using LED displays in special environments, proper usage must be ensured according to the product's application environment. (Examples: 1. Seaside, swimming pools, bathhouses, basements, tunnels. 2. Chemical environments, sulfide environments, halogen environments. 3. Environments with heavy sand or dust. 4. Environments with strong ultraviolet radiation. 5. Environments with strong electromagnetic fields. 6. Environments with temperatures below -20°C or above 55°C, etc.)
Usage Precautions	Cleaning Method	To clean the module surface, gently brush it with a soft-bristled brush. Do not use any liquid substances to clean the LED module surface, as this may damage the LED lamps.
	Electrostatic Discharge (ESD) Protection	Installation personnel must wear anti-static wristbands and gloves, and all tools used during assembly must be properly grounded.
	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 ⩽1Ω. 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.

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.