

Product Specification Sheet

Product Series: Pillar Series Light Pole Display

Product Model: LC14DGP3076S55/60/70/75/85

Document Revision History

No	Revision No.	Change Status	Description of Changes (+/-)	Approved By	Date
1	V1.0	C	Creation	Nelson Huan	2025.08.21
2	V1.1	M	Modified the format and content of the specification	Kevin Meng	2025.09.17
3	V1.2	M	Modified product brightness parameters	Joyce Dong	2025.12.12
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.

Contents

1. Scope of Application..... - 1 -

2. Naming Rules..... - 1 -

3. Product Introduction..... - 1 -

4. Product Parameters..... - 3 -

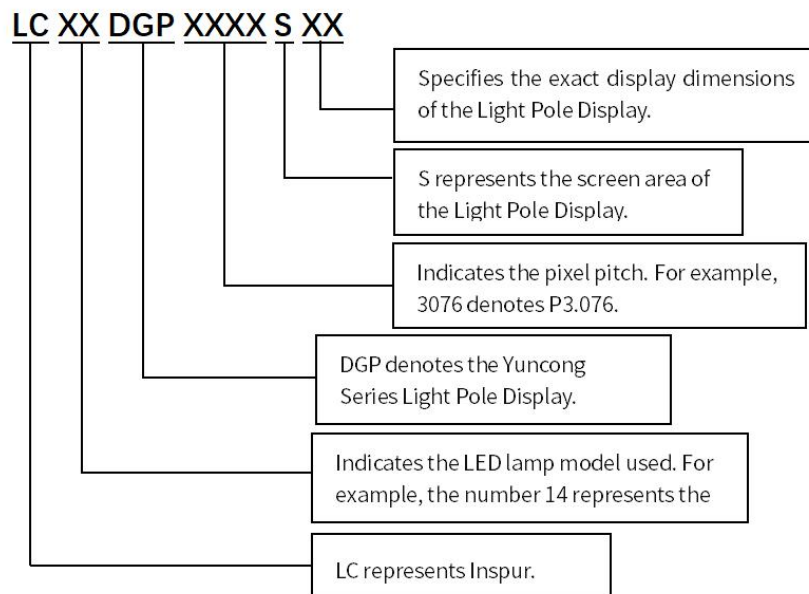
5. Signal Interface Definition of Unit Panel..... - 6 -

6. Precautions..... - 6 -

1. Scope of Application

This technical manual applies exclusively to the following Pillar series light pole display models: LC14DGP3076S55, LC14DGP3076S60, LC14DGP3076S70, LC14DGP3076S75, and LC14DGP3076S85. The specifications provided below correspond to standard product configurations. Custom solutions are available for specialized requirements, with non-standard dimensions subject to separate customization processes.

2. Naming Rules



Example: LC15DGP25S60 refers to an LAC Vision double-sided light pole display with a pixel pitch of 2.5mm and a screen display size of 60 inches (800mm × 1280mm).

3. Product Introduction

The LAC Vision Pillar Series smart light pole display is an outdoor terminal device integrating internet, IoT, and remote interaction capabilities. It features an elegant appearance, simple structure, and easy installation, making it compatible with smart light poles of various styles and heights. The product offers

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waterproof, dustproof, and lightning protection features for safety and reliability. With a diverse range of models, it provides customers with multiple personalized options.



3.1 Product Features

- Broadcast-level grayscale processing, delivers enhanced image detail and superior picture depth.
- Low heat generation & efficient cooling, ensures stable operation and longevity.
- High contrast ratio provides an exceptional visual experience with vivid imagery.
- Modular design offers flexible configuration and easy maintenance.
- High brightness with intelligent adjustment, features manual, scheduled, and environment-based auto-dimming for optimal visibility.
- Smart temperature control utilizes intelligent fans to manage internal airflow, ensuring efficient cooling by expelling hot air and drawing in cool air.
- Remote cluster management enables centralized control of multiple displays from a single platform for convenient operation.

3.2 Product Installation Effect Diagram

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4. Product Parameters

Pillar Series P3.076 Light Pole Display						
Module	Model	LC14DGP 3076S55	LC14DGP 3076S60	LC14DGP 3076S70	LC14DGP 3076S75	LC14DGP 3076S85
	Screen Size (inch)	55	60	70	75	85
	Pixel Structure	1R1G1B				
	LED Package	SMD1415				
	Pixel Pitch (mm)	3.076				
	Module Size (W×H) (mm)	320×160				
	Module Resolution (W×H)	104×52				
	Pixel Density (dot/m ²)	105688				
Display Panel	Display Surface	Double-Sided				
	Overall Screen Dimensions (W×H×D)	730×1370×12 5	890×1370×12 5	890×1690×12 5	1050×1690×12 5	1050×2010×12 5
	Display Area (W×H) (mm)	640×1280	800×1280	800×1600	960×1600	960×1920
	Unit Weight (kg)	40	45	50	55	60
	Maintenance Method	Rear Maintenance				
	Protection Rating	IP65				
	Cabinet Material	Aluminum Alloy				

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	Recommended Installation Height	3-3.5m above ground level				
Optical Parameters	Pixel Calibration	Supports pixel-by-pixel brightness and chromaticity calibration				
	Brightness (cd/m ²)	≥4500 cd/m ² , adjustable manually, by schedule, or intelligently				
	Color Temperature (K)	6500 (adjustable from 2000K to 9300K)				
	Viewing Angle	Horizontal 140° / Vertical 140°				
	Luminance Uniformity	≥98%				
	Chromaticity Uniformity	Within ±0.003 Cx, Cy				
	Maximum Contrast Ratio	5000:1				
Electrical Parameters	Total Peak Power Consumption (W)	≤1120	≤1400	≤1750	≤2100	≤2600
	Total Average Power Consumption (W)	≤270	≤460	≤580	≤700	≤1000
	Power Supply Requirements	AC 100 ~ 240 V (50/60 Hz)				
Processing Performance	Drive Method (Constant Current Drive)	16S				
	Frame Change Frequency	50/60 Hz				
	Refresh Rate (Hz)	3840				
	Processing Depth (bit)	16				
System Parameters	Operating System	Android9				
	CPU	Cortex-A35 Quad-Core, 1.5GHz Main Frequency				
	RAM	1GB				
	Storage	8GB				
	Supported Media Formats	Video Formats: AVI, MPG, VOB, MKV, RMVB, MP4, TS, FLV, and other mainstream formats. Audio Formats: MP3 and other audio formats. Image Formats: JPG, BMP, PNG, and other image formats.				
Device Interface	USB	1×USB2.0				
	Audio Input/Output	1-channel stereo audio output				

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	1000M Ethernet Port	1 port (for communication)
Functional Features	Remote Cluster Control	Supports remote cluster control via cloud platform for centralized operations including content publishing, scheduled power on/off, volume/brightness adjustment, and remote power management.
	External Sensor Connectivity	Onboard RS485 interface for front-end devices to control rear display functions including brightness adjustment, playback control, and power on/off commands, compatible with external 8-element environmental sensor (R69) for environmental data display.
	Multiple Communication Methods	Connectivity: Supports wired, WiFi, and 4G communication modes for flexible field deployment.
	Timing/Time Synchronization Function	GPS timing/synchronization and NTP automatic time calibration ensure multi-screen playback synchronization.
	Audio Processing	Built-in 2×15W full-range speakers with customized high-fidelity amplifier.
Usage Parameters	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	Bracket Installation

5. Signal Interface Definition of Unit Panel

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

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6. Precautions

Item		Description
Environmental	Temperature	Storage Temperature Range: -40°C to 80°C. Temperature control measures are

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Precautions	Requirements	required for environments outside this range. Operating Temperature Range: -20°C to 50°C. Temperature control equipment must be installed for environments outside this range. LED 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 humidity exceeds 90% RH. Operating Humidity Range: 10% to 90% RH. The operating environment must be dehumidified before use if humidity exceeds this range.
	Handling of Overdue Storage	Aging Procedure: If the product remains stored in an unopened box for over one month or is powered off for more than 48 hours after unboxing, a 6-hour aging process is required prior to use. The procedure involves gradually increasing brightness levels as follows: 10% brightness: Preheat for >1 hour, 30% brightness: Preheat for >1 hour, 60% brightness: Preheat for >2 hours, 80% brightness: Preheat for >1 hour, 100% brightness: Preheat for >1 hour. After completion, set the display to normal brightness to eliminate moisture and ensure operational stability.
	Dust Prevention Requirements	The rear panel complies with IP6X dustproof standards. To prolong product lifespan, minimize exposure to high-dust environments (e.g., sandy outdoor areas or dusty industrial workshops).
	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

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		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 $\leq 1\Omega$. 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.

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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