

Product Specification Sheet

Product Series: Crest Series Outdoor LED Display

Product Model: EV96025- EV96010

Document Revision History

No	Revision No.	Change Status	Description of Changes (+/-)	Approved By	Date
1	V1.0	C	Creation	Kevin Meng	2025.08.21
2	V1.1	M	Modified the format and content of the specification	Joyce Dong	2025.09.09
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.

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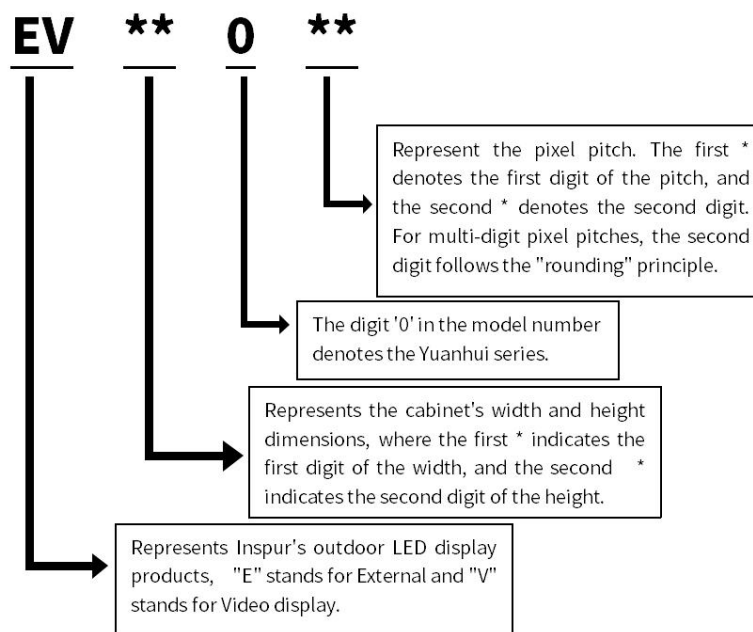
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1. Scope of Application

This technical manual applies only to the following models of the Crest Series cabinets: EV96025, EV96031, EV96040, EV96050, EV96067, EV96080, and EV96010. The parameters provided below are for standard products. Customization is available for special requirements.

2. Naming Rules



Example: EV96031 refers to an LAC Vision Crest series outdoor display screen with a cabinet size of 960mm x 960mm and a pixel pitch of 3.076mm.

3. Product Introduction

The LAC Vision Crest series LED display is engineered for outdoor environments, featuring high contrast ratio, high refresh rate, wide viewing angle, and high reliability. It delivers clear and vibrant images even under direct sunlight, with natural and realistic display performance. Specially designed drainage holes and concealed cable slots enable it to withstand extreme weather conditions such as heavy rain and dust, making it widely suitable for diverse applications including urban landmarks,

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stadiums, and transportation hubs.



Sheet Metal Cabinet (Standard Configuration)

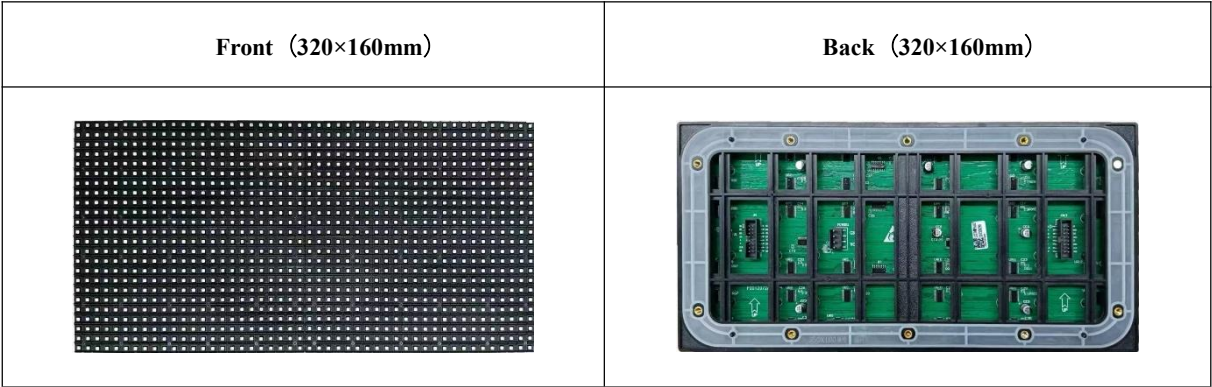
Die-Cast Aluminum Cabinet (Optional)

3.1 Product Features

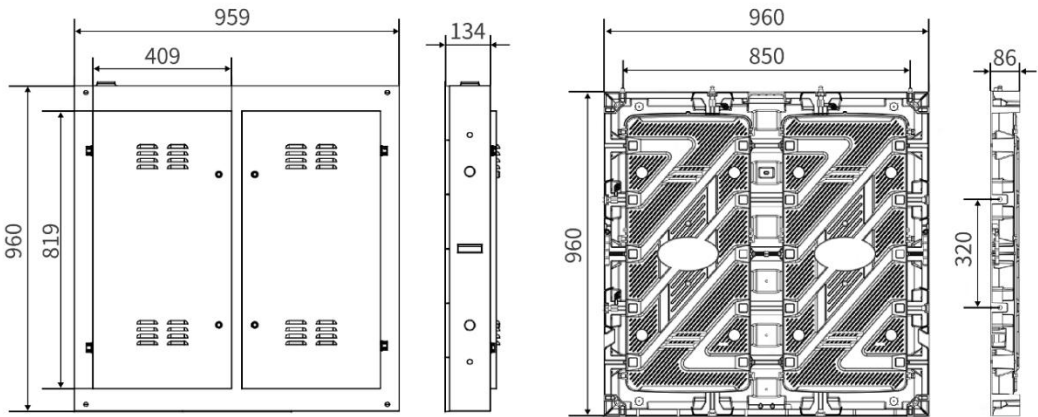
- Utilizes brand-name LED chips packaged with matte black brackets for uniform black surface consistency.
- Constructed with galvanized steel or die-cast aluminum cabinets, ensuring high flatness and structural stability.
- Fully waterproof modules with an IP65 protection rating and sealed design, suitable for various harsh environments.
- High refresh rate, high brightness, and high contrast ratio deliver exquisitely smooth picture display, providing an outstanding visual experience.
- Screen brightness up to 4,500 nits with a viewing angle exceeding 140 degrees.
- Equipped with low-noise constant current driver chips, 14-bit+ broadcast-level grayscale processing, and wide color gamut coverage.
- Supports both front and rear maintenance, adapting to all installation environments for easy servicing.
- Capable of arbitrary size and shape splicing, achieving a uniform display with no visible seams.

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3.2 Module Images



3.3 Product Dimensions



Unit: mm

4. Product Parameters

Crest Series Outdoor LED Display								
	Number	EV96025	EV96031	EV96040	EV96050	EV96067	EV96080	EV96010
Module	Pixel Structure	1R1G1B						
	LED Package	SMD1415	SMD1415	SMD1921	SMD1921	SMD2727	SMD3535	SMD3535
	Pixel Pitch (mm)	2.5	3.076	4.0	5.0	6.667	8.0	10
	Module size (W×H×D)	320×160						
	Module Power	≤38W						

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	Consumption							
	Module Supply Voltage	DC4.5~5V						
	Module Resolution (W×H)	128×64	104×52	80×40	64×32	48×24	40×20	32×16
Cabinet	Unit Dimensions (mm)	960×960						
	Unit Resolution (W×H)	384×384	312×312	240×240	192×192	144×144	120×120	96×96
	Pixel Density (dot/m²)	160000	105688	62500	40000	22477	15625	10000
	Cabinet Flatness (mm)	≤0.25				≤0.35	≤0.4	≤0.5
	Cabinet Material (Standard)	Die-Cast Aluminum	Galvanized Steel Sheet					
	Cabinet Material (Optional)	Galvanized Steel Sheet	Die-Cast Aluminum					
	Total Screen Net Weight (kg)	35~40 (for galvanized steel sheet) /25~30 (for die-cast aluminum)						
	Maintenance Method	Rear Maintenance						
	Protection Rating	IP65						
Optical Parameters	Single-Point Brightness Calibration	Support						
	Single-Point Chromaticity Calibration	Support						
	Deviation of Light-Emitting Point Center Distance	<3%						
	Brightness/Chromaticity Uniformity	≥97%						
	Brightness (cd/m²)	≥4500						
	Color Temperature (K)	2000 K ~ 9300 K adjustable						
	Contrast Ratio	5000:1						
	Viewing Angle	Horizontal 140° / Vertical 140°						
Electrical Parameters	Peak Power Consumption (W/m²)	≤760						
	Average Power Consumption (W/m²)	≤255						
	Power Supply Requirements	AC100~240V(50~60Hz)						
	Drive Method (Constant Current Drive)	1/16 S	1/13 S	1/10 S	1/8 S	1/8 S	1/5 S	1/2 S

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	Frame Change Frequency	50/60 Hz
	Refresh Rate (Hz)	3840
	Grayscale Level	16384
	Processing Depth (bit)	14
	Brightness Control	Manual / Automatic / Programmable Control
	Interface Type	RJ-45 Interface
Usage parameters	Typical Lifespan (h)	≥100000
	Operating Temperature/Humidity	-10°C ~ 50°C / 10% ~ 90%RH (no condensation)
	Storage Temperature/Humidity	-40°C ~ 60°C / 10% ~ 90%RH (no condensation)
	Installation Method	Fixed 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
HUB75E				15	OE	Enable Signal	16	GND	Power Ground

6. Precautions

Item		Description
Environmental Precautions	Temperature Requirements	Storage Temperature Range: -10°C to 50°C. Temperature control measures are required for environments outside this range.
		Operating Temperature Range: -40°C to 60°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.

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	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	If the product remains stored in an unopened box for over one month or is powered off for more than 48 hours after unboxing, it must undergo a 6-hour aging process before use. This involves preheating at progressively higher brightness levels: 10% for over 1 hour, 30% for over 1 hour, 60% for over 2 hours, 80% for over 1 hour, and finally 100% for over 1 hour. Following this sequence, the display should be set to normal operating brightness to eliminate moisture and prevent operational issues.
	Dust Prevention Requirements	The rear panel features an IP6X dustproof rating. To maximize product lifespan, the display should be minimally exposed to high-dust environments such as 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 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)	Installation personnel must wear anti-static wristbands and gloves, and all tools used during assembly must be properly grounded.

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	Protection	
	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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