

User Manual – Dahua Fixed Outdoor LED Display FC Series (Cabinet 1×1 m)

1. Introduction

The **Dahua FC Series outdoor LED displays** are designed for professional applications in advertising, signage, and digital architecture. With a modular design of **1 × 1 m cabinets**, they allow flexible installation, high durability for outdoor conditions, and superior visual performance even under direct sunlight.

2. Key Features

- **Ultra-light modular design**, cabinets weigh only 24 kg with a thickness of 96 mm.
 - **Front and rear IP65 protection**, resistant to dust and water.
 - **Organized internal wiring** for improved system stability.
 - **Fanless passive cooling**, ensuring silent operation.
 - **Front and rear maintenance** through a quick-lock mechanism.
 - **Ultra-high brightness adjustable** up to 10,000 nits (depending on model).
 - **90° seamless splicing**, enabling creative installations and 3D visual effects.
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3. Technical Specifications

Dimensions and Design

- Individual cabinet: 1000 × 1000 × 96 mm

- Weight: 24 kg
- Protection: IP65 front and rear

Available Models

- PHGOA2.97-FC: Pitch 2.97 mm, brightness 4000–4500 nits
- PHGOA3.91-FC: Pitch 3.91 mm, brightness 4500–5000 nits
- PHGOA4.81-FC: Pitch 4.81 mm, brightness 4500–5000 nits
- PHGOA6-FC: Pitch 6.25 mm, brightness 5500–6000 nits
- PHGOA8-FC: Pitch 7.81 mm, brightness 5500–6000 nits
- PHGOA10-FC: Pitch 10.42 mm, brightness 5500–6000 nits

Operating Environment

- Operating temperature: –20 °C to +60 °C
 - Relative humidity: 10%–80%
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4. Installation

1. Ensure a strong and stable support structure for the cabinets.
2. Mount each 1 × 1 m cabinet using the quick-lock system.
3. Connect LED modules in sequence as recommended.
4. For 90° splicing, use the proper connection accessories.
5. Make electrical connections, verifying the correct voltage.
6. Power on the system and adjust brightness and resolution settings.

5. Recommended Applications

- Shopping malls and corporate facades.
- Public transportation stations.
- Outdoor advertising and digital signage.
- Architectural and creative installations.

6. Maintenance

- Front and rear access for replacing modules and power supplies.
- Clean with a dry or slightly damp cloth; avoid abrasive chemicals.
- Periodically inspect cables and connectors.
- Check the support structure regularly to ensure safety.

7. Usage Recommendations

- Choose higher-brightness models for areas with strong sunlight.
- Ensure proper ventilation and spacing for heat dissipation.
- Take advantage of 90° splicing for immersive or 3D display effects.