User Manual

DHI-PHGOA3.91-PH Outdoor Fixed LED Display

1. Introduction

Thank you for choosing the Dahua DHI-PHGOA3.91-PH outdoor fixed LED display. This manual provides detailed instructions for installation, operation, and maintenance.

2. Main Features

- **Ultra-thin and lightweight design**: With a thickness of 77 mm and a weight of 34 kg/㎡, it facilitates installation and maintenance.
- **Front and rear installation and maintenance**: Provides installation flexibility and easy access for servicing.
- **90° VR curved or 90° right-angle splicing**: Offers two splicing options for different configurations.
- **Aluminum module chassis and panel frame**: Enhances heat dissipation, improving durability.
- **High protection rating**: IP68 on the front and IP66 on the rear, ensuring water and dust resistance.
- **Point-by-point calibration**: Ensures rich color and brightness uniformity.

3. Technical Specifications

- **Pixel pitch**: 3.91 mm
- **Pixel configuration**: 1R1G1B
- **LED type**: SMD1921
- **Maximum brightness**: 5000 nits
- **Color temperature**: 3500K-10000K (adjustable)
- **Viewing angle**: Horizontal 140° / Vertical 120°
- **Pixel density**: 65,536 dots/m²
- **Module size**: 500 mm × 250 mm
- **Module resolution**: 128 × 64 dots
- **Cabinet size**: 500 mm × 1000 mm × 77 mm
- **Cabinet resolution**: 128 × 256 dots
- **Cabinet weight**: 17 kg ± 0.5

- **Cabinet material**: Aluminum
- **Operating temperature**: -40℃~+60℃
- **Operating humidity**: 10~80% RH
- **IP rating**: Front IP68 / Rear IP66
- **Aspect ratio**: 1:2
- **Gray scale**: 14 bits
- **Contrast ratio**: 6000:1
- **Refresh rate**: 3840 Hz
- **Input voltage**: AC 110~220V (±10%)
- **Maximum input power**: 650 W/m²
- **Average input power**: 180 W/m²
- **Installation methods**: Wall-mounted / Floor-mounted
- **Maintenance**: Front and rear
- **Signal transmission distance**:
    - **CAT5 cable**: ≤100 m
    - **Multimode fiber**: ≤300 m
    - **Single-mode fiber**: ≤10 km

4. Installation

1. **Preparation**:
    - Check that all components are present and in good condition.
    - Ensure that the installation area meets the required environmental conditions.
2. **Mounting**:
    - Use appropriate brackets for wall or floor mounting.
    - Ensure the structure can support the cabinet's weight.
3. **Connection**:
    - Connect the signal and power cables according to the specifications.
    - Verify that all connections are firm and secure.

5. Operation

- **Powering On**:
    - Apply the specified input voltage.
    - Wait for the display to initialize properly.
- **Adjustments**:
    - Use the control system to adjust brightness, color temperature, and other parameters as needed.

6. Maintenance

- **Cleaning**:
    - Wipe the surface with a soft, dry cloth.
    - Do not use solvents or harsh chemicals.
- **Regular Inspection**:
    - Periodically check connections and overall display condition.
    - Perform calibrations as recommended by the manufacturer.

7. Troubleshooting

- **No image displayed**:
    - Check the signal and power connections.
    - Ensure the signal source is functioning properly.
- **Uneven brightness**:
    - Check for any obstructions affecting the LED modules.
    - Adjust brightness settings through the control system.