

1. Introduction

The **Dahua DHI-PHSIA1.5-AH** is an indoor fine pixel pitch LED module featuring **Mini Flip COB** (Chips on Board) technology, providing high-quality visuals with a compact and lightweight structure. This model is designed for professional environments requiring crisp and uniform images, with a **16:9 aspect ratio** and compatibility with **2K, 4K, 8K, and 16K resolutions**.

With a **CNC die-cast aluminum** structure, the cabinet ensures seamless integration with a splicing tolerance of **±0.1 mm**. Additionally, its design allows for **front maintenance**, making installation and repair easier.

2. Key Features

- **Mini Flip COB Technology:** Enhances color uniformity and brightness.
 - **Compact and Lightweight Design:** **34.3 mm thickness, 4.0 kg weight**.
 - **16:9 Aspect Ratio:** Easily adapts to multiple resolutions.
 - **High-Precision Material:** CNC die-cast aluminum with **±0.1 mm splicing tolerance**.
 - **Front Maintenance:** Provides easy access to all components without dismantling.
 - **High Brightness and Contrast:** **600 nits** brightness, **10000:1 contrast ratio**.
 - **High Refresh Rate:** **3840 Hz**, ensuring smooth and flicker-free visuals.
 - **Extended Durability:** LED lifespan exceeding **100,000 hours**.
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3. Installation

3.1. Prerequisites

Before installation, ensure the following:

- A suitable space with recommended temperature and humidity conditions (**-10°C to +40°C, 10% - 80% relative humidity**).
- Necessary tools for wall or floor mounting.
- Stable power supply (**110-220V AC ±10%**).

3.2. Installation Procedure

1. **Inspect the equipment** for any visible damage before installation.
 2. **Secure the mounting structure** on the wall or floor as per the chosen method.
 3. **Connect the LED modules**, ensuring precise cabinet alignment.
 4. **Establish power and signal connections**, verifying cable compatibility (**CAT5 ≤ 100m, multimode fiber ≤ 300m, single-mode fiber ≤ 10km**).
 5. **Power on and calibrate the display**, ensuring proper color and brightness uniformity.
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4. Maintenance and Care

- **Regular Cleaning:** Use a dry, soft cloth to prevent dust accumulation.
 - **Connection Inspection:** Periodically check cables and modules for communication issues.
 - **Temperature Monitoring:** Avoid extreme temperatures to maximize lifespan.
 - **Firmware Updates:** Regularly check Dahua's updates for improved performance.
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5. Troubleshooting

Issue	Possible Cause	Solution
No image displayed	Faulty signal connection	Check and reconnect cables
Distorted image	Incorrect settings	Adjust resolution in the software
Flickering or interference	Unstable power supply	Verify voltage and electrical stability
Overheating	Poor ventilation	Ensure proper heat dissipation

6. Technical Specifications

- **Cabinet Dimensions:** 600 × 337.5 × 34.3 mm
 - **Cabinet Weight:** 4.0 kg ± 0.5
 - **Cabinet Resolution:** 384 × 216 pixels
 - **Pixel Density:** 409,600 dots/m²
 - **Maximum Brightness:** 600 nits
 - **Contrast Ratio:** 10000:1
 - **Viewing Angle:** 160° horizontal / 160° vertical
 - **Refresh Rate:** 3840 Hz
 - **Maintenance:** Front
 - **LED Lifespan:** ≥100,000 hours
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7. Warranty and Support

For technical assistance and firmware updates, refer to Dahua's official documentation or contact authorized support.