HOLOSCAPE

# M Series: Surface-Mounted - M3 Module

REV. 1.0 2024-01-10

The Holoscape M3 Module represents the pinnacle of transparent LED display technology, expertly crafted for a variety of indoor settings. Its 3.91 mm pixel pitch and 80% transparency perfectly balance high-resolution content displays with seamless aesthetic integration. This module's 65,536 pixels/m² ensure that every image and text is vivid and engaging, ideal for environments where clear, impactful displays are essential.

In terms of durability and ease of use, the M3 Module is unparalleled. Its LEDs boast a robust build quality and a 100,000-hour lifespan, ensuring long-term, sustainable performance. Compatibility with leading processing systems like Colorlight or Novastar allows for ease of interface with content sources. All this makes the M3 Module not only a versatile and eco-friendly option, but also a top choice for dynamic, clear, and impactful content displays across various applications.

**Key Features:**

- **Pixel Pitch**: 3.91 mm, offering a balance between clarity and transparency for content displays.
- **Pixel Density**: 65,536 pixels/m² (6,088 pixels/ft²), ensuring vibrant and detailed content displays.
- **Apparent Transparency**: 80%, providing higher transparency for minimal obstruction and seamless integration into various environments for content displays.
- **Black pixels:** ≥3000 cd/m² (278.71 cd/ft²)
- **White pixels:** ≥4000 cd/m² (278.71 cd/ft²) This dual brightness feature enhances the adaptability of the M3 Module to different lighting conditions, improving the quality of content displays.
- **Maximum Power Consumption:** 1000 W/m² (92.90 W/ft²)
- **Average Consumption:** 375 W/m² (34.84 W/ft²) Balancing high-performance content display with energy-conscious operation.
- **Lifespan**: ≥100,000 hours, promising long-term durability and reliability for content displays.
- **Control System Compatibility**: Compatible with Colorlight or Novastar control systems, enabling flexible and user-friendly management of content displays.

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|---|---|
| **Pixel Pitch (horizontal and vertical)** | 3.91 mm |
| **Pixel Density (pixels per area)** | 65,536/m² (6,088/ft²) |
| **Apparent Transparency** | 80% |
| **Module Display Dimensions (width x height)** | M3-S: 250 mm x 1000 mm (9.84" x 39.37")<br>M3-L: 250 mm x 1171 mm (9.84" x 46.10") |
| **Module Profile Dimensions (width x height)** | M3-S: 250 mm x 1025 mm (9.84" x 40.35")<br>M3-L: 250 mm x 1200 mm (9.84" x 47.24") |
| **Resolution (pixel count width x height)** | M3-S: 64 pixels x 256 pixels<br>M3-L: 64 pixels x 300 pixels |
| **Weight (Module and electronics)** | 1.6 kg (3.53 lb) |
| **Brightness (in candelas per meter [nits])** | Black pixels: ≥3000 cd/m² (278.71 cd/ft²)<br>White pixels: ≥4000 cd/m² (278.71 cd/ft²) |
| **Scanning Mode** | Static Driving (single pixel, single control) |
| **Encapsulation Type** | Light Board & Driving Board Integrated |
| **Lifespan** | ≥ 100,000 hours |
| **Pixel Grayscale Depth** | 16 bit |
| **Maximum Power Consumption (in watts)** | 1000 W/m² (92.90 W/ft²) |
| **Average Power Consumption (in watts)** | 375 W/m² (34.84 W/ft²) |
| **Control System** | Colorlight or Novastar |
| **Input Voltage** | AC100V~240V 50/60Hz |
| **Working Voltage** | DC4.2V ±0.2V |
| **Working Temperature** | -20°C to 50°C |
| **Working Humidity (without condensation)** | Up to 85% RH |
| **Storage Temperature** | -20°C to 60°C |
| **Storage Humidity (without condensation)** | Up to 85% RH |
| **Protection Degree** | IP20 |
| **Installation Environment** | Indoor |

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The parameters in the table are subject to updates, and the data is for reference only. Updates will be made without notice.

**Option considerations:**

Length: The M3 Module is available in two lengths: the M3-S and the M3-L.

Pixel: "*White pixels*" are brighter and intended for installations that will compete with bright light sources, such as sunlight. "*Black pixels*" are intended for indoor display.

Adhesive Orientation: Modules can be mounted in two ways: (1) with the adhesive on the backing for display inwards from window, or (2) with the adhesive on the LEDs for display outwards through a window.

**Module Orientation Notes:**

Width and height dimensions represent an installation orientation where electronics are at the top and/or bottom. This orientation allows for an unlimited length for the installation's width dimension.

Surface-mounted modules may be mounted 90° to this orientation, where electronics are on the sides. This orientation allows for an unlimited length for the installation's height dimension.