

M Series: Surface-Mounted - M2 Module

REV. 1.0 2024-01-10

Introducing the Holoscape M2 Module - a state-of-the-art Transparent LED Display designed for versatile indoor applications. Featuring a fine pixel pitch of 2.5 mm and high pixel density, the M2 Module ensures crisp and clear content display. With 70% transparency, it blends seamlessly into any environment, enhancing aesthetics with an intense display resolution.

The M2 Module's lightweight and slim profile make it an ideal choice for various settings, from retail to corporate environments. Equipped with a static scanning mode and an integrated light and driving board, it delivers consistent performance with a long LED lifespan of over 100,000 hours.

Energy efficiency is at the heart of the M2 Module design, offering significant power savings while maintaining high brightness and visibility. The Colorlight or Novastar control systems provide user-friendly operation, ensuring content management is effortless and intuitive.

Built to withstand diverse indoor conditions, the M2 Module operates reliably in temperatures ranging from -20°C to 50°C and humidity levels up to 85%. Its IP20 protection degree ensures durability in indoor environments.

Key Features:

- **High Resolution & Clarity:** 2.5 mm pixel pitch and 160,000 pixels/m² density for sharp, detailed visuals.
- **Superior Transparency:** 70% transparency ensures minimal visual obstruction, seamlessly integrating into various environments.
- **Compact Design:** Display dimensions of 125 mm x 1000 mm and a slim profile for versatile placement.
- **Advanced Brightness:** ≥ 1200 cd/m², providing clear and vibrant imagery in various lighting conditions.
- **Energy-Efficient Performance:** Maximum power consumption of 800 W/m² and average consumption of 300 W/m² for sustainable operation.
- **Longevity & Reliability:** LED lifespan of over 100,000 hours and robust construction with IP20 protection.
- **Versatile Control Options:** Compatibility with Colorlight or Novastar control systems for flexible content management.

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Pixel Pitch (horizontal and vertical)	2.5 mm
Pixel Density (pixels per area)	160,000/m ² (14,864/ft ²)
Apparent Transparency	70%
Module Display Dimensions (width x height)	125 mm x 1000 mm (4.92" x 39.37")
Module Profile Dimensions (width x height)	125 mm x 1025 mm (4.92" x 40.35")
Resolution (pixel count width x height)	50 pixels x 400 pixels
Weight (Module and electronics)	1.63 kg (3.59 lb)
Brightness (in candelas per meter [nits])	≥1200 cd/m ² (111.48 cd/ft ²)
Scanning Mode	Static Driving (single pixel, single control)
Encapsulation Type	Light Board & Driving Board Integrated
Pixel Lifespan	≥ 100,000 hours
Pixel Grayscale Depth	16 bit
Maximum Power Consumption (in watts)	800 W/m ² (74.32 W/ft ²)
Average Power Consumption (in watts)	300 W/m ² (27.87 W/ft ²)
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:

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.