

P2.5 Outdoor LED Module

MW7725-MO-H1



Features

- The R, G, B wafers are encapsulated together to form a single pixel, delivering excellent color mixing effect and uniformity.
- Integrates lamp board and drive board for even current distribution, low power consumption, and fast heat dissipation.
- High brightness, low attenuation, high reliability, high weather resistance.
- The surface of the mask features a unique texture design in matte black, providing high contrast.
- The surface of the module's LED beads is a fully sealed structure. It uses a PC engineering plastic base shell for AB potting compound waterproof treatment, and also has UV resistance. The protection level of the lamp surface can reach IP65. The surface of the module's PCB has undergone three-proof treatment, which is moisture-proof, mildew-proof, and salt fog-proof.
- Long lifetime.
- Ultra-wide viewing angle ensures satisfactory viewing experience from diversified angles.

Specifications

Model	MW7725-MO-H1
Module	
Pixel Pitch	P2.5
Module Resolution (W × H)	128 × 64
Module Dimensions (mm)	320 × 160
Cabinet	

Processing Image

Brightness (nits)	4500
Color Temperature (K)	3500 to 9300 adjustable
Viewing Angle (H/V)	120°/120°
Center distance deviation of LED	≤ 3%
Brightness Uniformity	≥ 97%
Color Uniformity (Cx, Cy)	± 0.003
Contrast Ratio	3000:1

Processing performance

Pixel Density (pitch/m ²)	250000
Surface Evenness (mm)	≤ 0.8
Grayscale	14 bit
Scanning Mode	16 S
Drive Mode	Constant current driving
Frame Frequency (Hz)	50/60
Refresh Rate (Hz)	3840

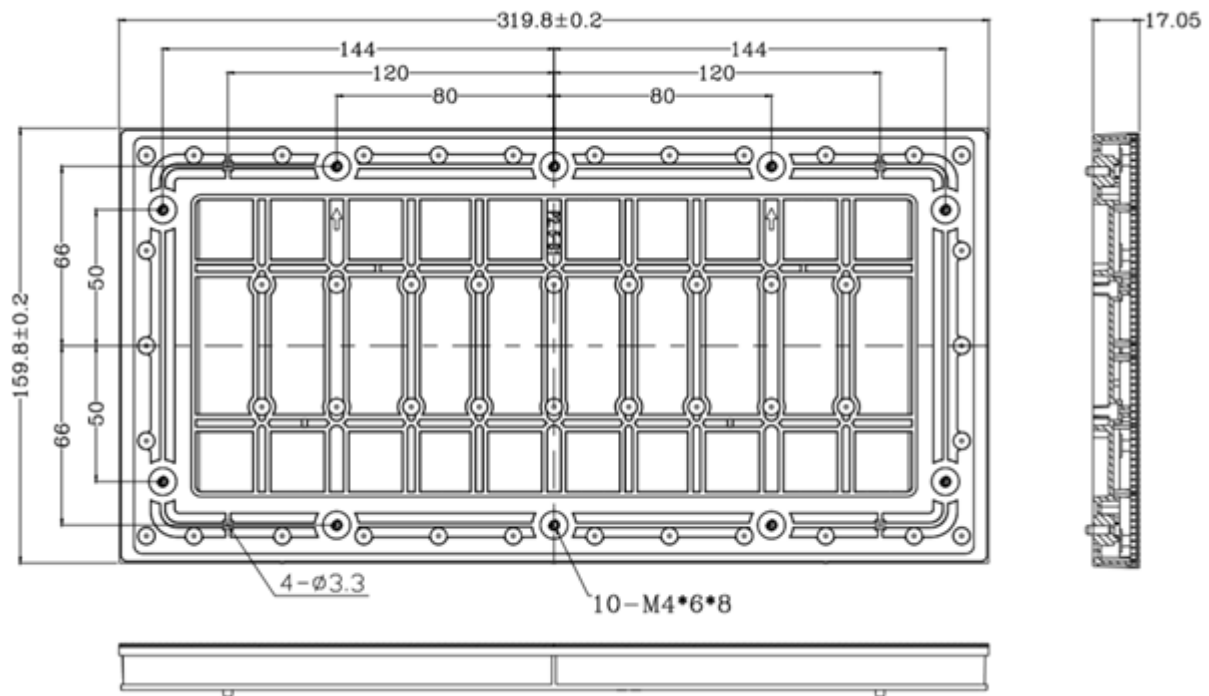
Electrical

Power Supply	DC 4.5 V
Average Power Consumption (W/m ²)	280
Max. Power Consumption (W/m ²)	850

General

Ingress Protection	IP65 (front)
Weight (kg/pcs)	0.47 ± 0.02
Operating Temperature	-20°C to 50°C
Operating Humidity	10% to 65% RH, non-condensing
Storage Temperature	-20°C to 60°C
Storage Humidity	10% to 70% RH, non-condensing
LED Lifetime (h)	50000

Dimensions



Ordering Info

Product Model	Description
MW7725-MO-H1	P2.5 Outdoor LED Module

Zhejiang Uniview Technologies Co., Ltd.

No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China (Zhejiang) Pilot Free Trade Zone, China

Email: overseasbusiness@uniview.com; globalsupport@uniview.com

<http://www.uniview.com>

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