

DESAY



MB Series

Outdoor Fixed LED Display

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Specification

Parameter	Unit	MB3	MB6	MB8	MB10	MB12	MB16
Pixel pitch	mm	3.846	6.25	8.333	10	12.5	16.667
Brightness	nits	5000	6000 ~ 6500	6000 ~ 6500	6000 ~ 6500	6000 ~ 6500	6000 ~ 6500
Pixel configuration	R/G/B	SMD 3 in 1					
Color temperature	K	6500					
Viewing angle-Horizontal (50% brightness)	Deg.	140(+70/-70)					
Viewing angle-Vertical (50% brightness)	Deg.	+30-50	+15-40	+30-45	+55-65	+55-65	+55-65
Recommended minimum viewing distance	m	4	6	8	10	12	16
Panel width	mm	800					
Panel height	mm	900					
Panel depth	mm	112					
Panel area	m ²	0.72					
Panel material		Aluminum					
Panel weight	Kg	20.5					
Ingress protection (front/back)	IP	65/54					
Pixel matrix per panel		208×234	128×144	96×108	80×90	64×72	48×54
Brightness control		255					
Gray scale	bit	14					
Frame rate	Hz	50/60					
Display refresh rate	Hz	3840/7680					
Input voltage	VAC	100 ~ 240					
Input power frequency	Hz	50 ~ 60					
Power Consumption (Max.)	W/m ²	680±10%	680±10%	680±10%	680±10%	680±10%	450±10%
Power Consumption (Avg.)	W/m ²	238±10%	238±10%	238±10%	238±10%	238±10%	157±10%
Operating temperature range	°C	-30 ~ +50					
Lifetime (50% brightness)	Hours	100,000					

Features

- Ultra-lightweight: 20.5kg per panel
- Noise-free: fanless design
- 30% energy savings: common cathode design
- High brightness: ≥6,500nits
- High refresh rate: 3,840 / 7,680Hz
- 8:9 aspect ratio: supports 16:9 & 4:3 assembly
- High security: modules equipped with safety ropes
- Unique waterproof protection: patented integrated drainage channel
- Professional heat-dissipating power box: excellent heat dissipation performance
- Full front & rear serviceability for modules & power boxes
- Space-saving rear design: easy wall-mounting with simple mounting frame
- Dual safety protection: module fuses + power supplies with overcurrent protection
- Optional accessories: impact-resistant soft rubber masks, adjustable rear brackets



Optional Perimeter Screen Version

Full Front & Rear Serviceability for Modules and Power Supply