



# MIRACLEWALL

## Sleek design. Amazing performance.

MiracleWall is a high-performance, energy-efficient LED display built with Flip-Chip COB technology, common cathode architecture, full grayscale calibration and next-generation IC drivers from Novastar. The combination delivers exceptional image quality, operational reliability and low power consumption, while maximizing the output of every LED diode. The new IC circuits enable a more efficient display with brighter output, richer colors and improved HDR performance. Slim, lightweight and designed for modular front serviceability, built for professional environments where performance and reliability matter. Ideal for control rooms, meeting rooms, studios, retail and public spaces.

## Key features



### Exceptional visual performance

Flip-Chip COB technology delivers stunning image quality with deep, ink-like blacks and high contrast, creating a realistic and vibrant visual experience.



### Slim and lightweight design

With an ultra-thin cabinet design of just 31 mm and a weight of only 4.5 kg, it is easy to install and handle.



### Flexible mounting options

Custom connections and multiple mounting points allow for effortless installation on walls, fixed surfaces, or other environments without requiring extra space.



### High durability and energy efficiency

Flip-Chip COB technology protects against external impacts and reduces maintenance needs. Its energy-efficient operation lowers power consumption without compromising performance.



### Suitable for different environments

Perfect for conference rooms, exhibition halls, TV studios, and other professional settings where reliable and high-quality display performance is required.

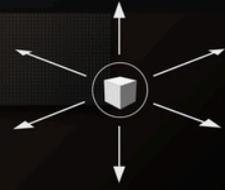
## Compact and sleek design

Ultra-thin 31 mm cabinet weighing only 4.5 kg.



## Custom connector six-way adjustment

The custom connectors, combined with magnets in the cabinet, allow for module adjustment across three axes and six directions, ensuring a perfectly flat screen surface.



  
**DCI-P3**  
Color gamut

## Flip-Chip COB technology

Experience outstanding visual performance with strong protection against external impacts.



  
**14 bit+**  
Grayscale

  
**600 nits**  
Brightness

  
**1000000:1**  
Contrast ratio

## Deep blacks & matte

The module features a matte black finish, ensuring uniform and consistent color reproduction with ink-like deep blacks.

## 16:9 aspect ratio

Easily create large-scale FUHD displays



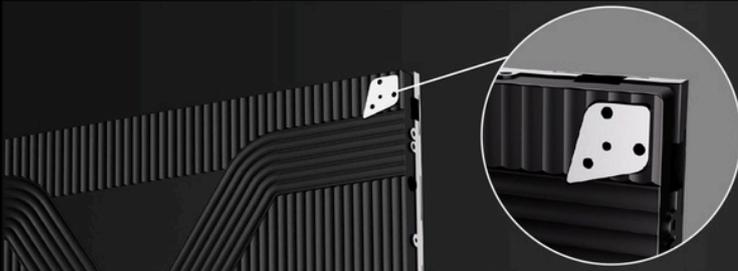
## Full front access

Saves installation space as no maintenance clearance is required.



## Flexible mounting options

The four corners of the cabinet have bi-directional mounting holes for both front and rear installation. Supports fixed mounting, wall installation, and other options tailored for various applications.



## Dual backup, multiple protection

Both the receiver card and power supply feature dual backup systems. In case of a failure, the system automatically switches to the backup module to ensure uninterrupted display.



Power source x2



Receiver card x2



## Comprehensive applications

Ideal for high-end conference rooms, TV production, exhibition halls, and more.

# Specifications

Model	MBi-09-COB-S	MBi-12-COB-S	MBi-12-COB-S	MBi-15-COB-S	MBi-18-COB-S
Pixel pitch (mm)	P0.9375	P1.25	P1.25	P1.5625	P1.875
Resolution	640 x 360	480 x 270	480 x 270	384 x 216	320 x 180
Pixel density (px/m <sup>2</sup> )	1 137 777	640 000	640 000	409 600	284 444
Panel size (mm)	600 x 337.5 x 31				
Panel weight (kg)	4.5				
Brightness (nits)	600	600	600	600	550
Contrast ratio	≥1000000:1				
Color gamut	DCI-P3				
Color temperature (k)	3000 ~ 9300				
Color depth (bit)	8				
Greyscale depth (bit)	18				
Refresh rate (hz)	3840				
FPS (frames per second)	60				
Operating voltage	AC:100V~240V,50/60Hz				
Power consumption (max/typ, W/m <sup>2</sup> )	Max 370 / Typ 125	Max 320 / Typ 110	Max 350 / Typ 120	Max 350 / Typ 120	Max 325 / Typ 110
BTU/h (average)	Front: 86 Rear: 200.7	Front: 86 Rear: 200.7	Front: 86 Rear: 200.7	Front: 86 Rear: 200.7	Front: 78.8 Rear: 184
Panel thickness (mm)	31				
Installation type	Front maintenance, supports fixed installation and wall mounting				
Operating temperature (°C)	-10 ~ +50				
Humidity range (%RH)	10 ~ 80				
IP-rating	IP54 front / IP30 rear				
Certifications	CE, EMC, ETL, FCC				
IC model	1069	1065	1065	1065	3265
Scan mode	54	60	60	54	40
LED chip brand	Chipone/ ICN				
LED chip size (MIL)	0306				