



PCB Series

Indoor Micro LED Display

PRODUCT OVERVIEW



Panasonic Micro LED Display delivers breathtaking, lifelike visuals, transforming every moment into an extraordinary viewing experience. With a seamless array of Micro LED chips, it offers unparalleled clarity, rich colors, and stunning precision, bringing your vision to life like never before.

Micro LED Display



Brightness 800 nits



Contrast Ratio 20000:1



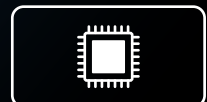
Energy Saving Cabinet



HDR Supported

HDR

Chip on Board Technology

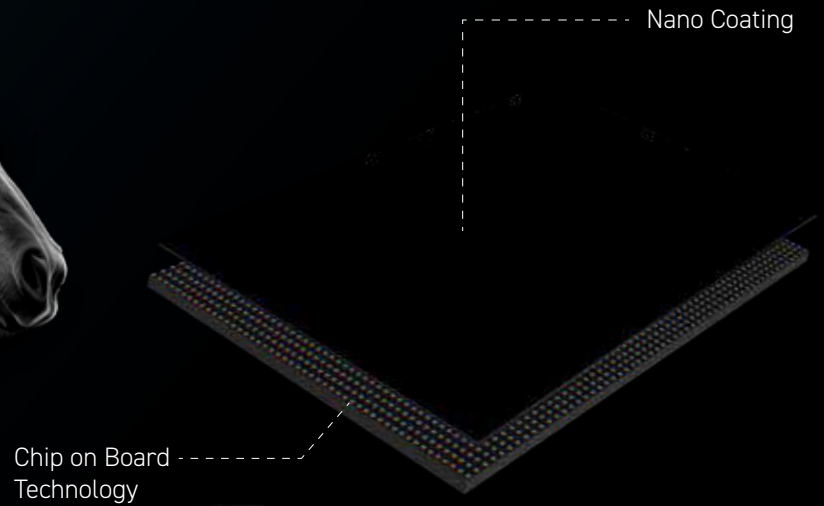


Ultra-High Contrast for Stunning Visual Depth

Panasonic Micro LED Display enhances contrast with Black Coating Technology and direct RGB substrate placement, delivering deeper blacks and richer colors. Its advanced design minimizes reflection and maximizes clarity for ultra-sharp, high-end visuals.



Panasonic Micro LED Display



Exceptional Clarity with 800-Nit Brightness

Panasonic's Micro LED Display delivers 800 nits of brightness for vivid, glare-free visuals even in bright environments. With enhanced contrast, deep blacks, and lifelike detail, it ensures an immersive viewing experience across various applications.



Normal LED Display

Panasonic Micro LED Display

Ultra-Smooth Motion with 3840 Hz Refresh Rate

An ultra-high 3840 Hz refresh rate delivers fluid motion and sharp details, ensuring flicker-free, lifelike visuals.



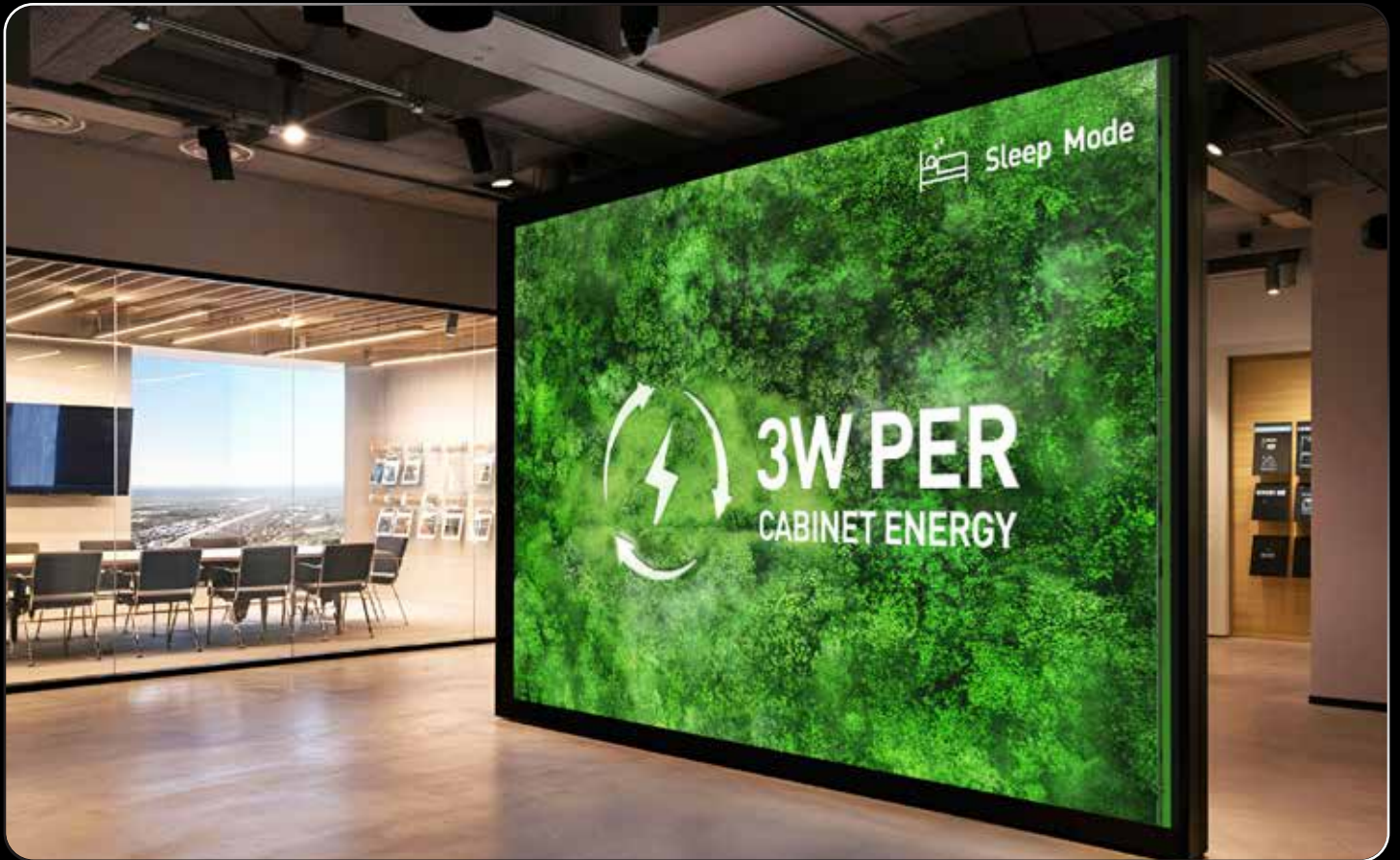
Consistent Visuals from Every Angle

With a 170° wide viewing angle, enjoy distortion-free visuals and consistent colours, no matter where you stand.



Smart Energy Efficiency for Sustainable Performance

The Micro LED Display consumes just 3W per cabinet in sleep mode, ensuring significant energy savings without compromising performance.



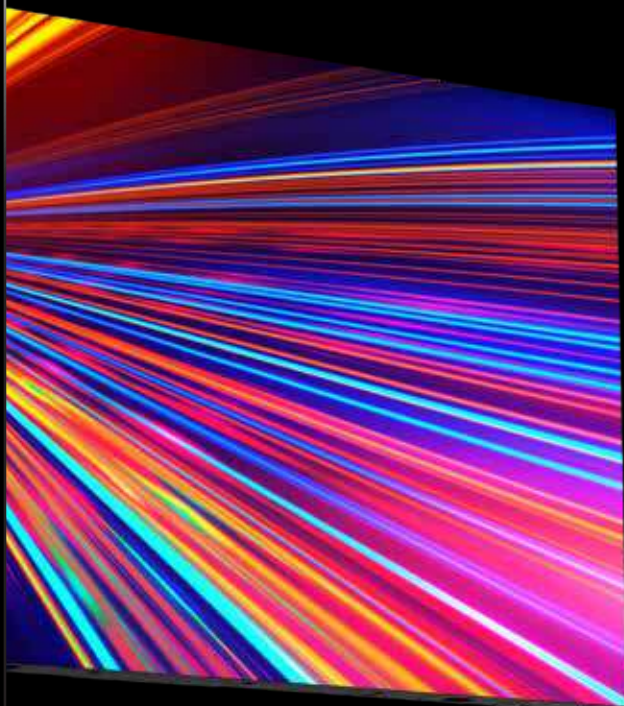
Seamless Performance with 5G Receiving Cards

With 5G receiving cards, data transmission capacity has quadrupled, supporting up to 2.3 million pixels per cable. This reduces cabling, simplifies installation, and ensures seamless ultra-HD content delivery for large-scale Micro LED Display.



Flawless Colour Consistency for True-to-Life Visuals

Panasonic Micro LED Display delivers lifelike visuals with stunning clarity, rich colors, and precise detail. Its seamless Micro LED array ensures an extraordinary viewing experience, bringing every image to life.



Seamless 90° Precision Splicing

Designed for 90° angle splicing, the display ensures near-invisible seams and a smooth, continuous viewing experience.



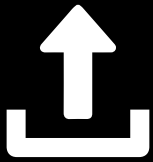
HDR-Enabled Micro LED Display for Immersive Visuals

HDR support enhances brightness, contrast, and colour gamut, delivering deeper blacks, richer details, and lifelike visuals.



COMPATIBLE WITH SIGNEDGE SOLUTION

SignEdge* compatibility enables seamless content management, ensuring smooth operation, stability, and real-time updates.



UPLOADING
CONTENT



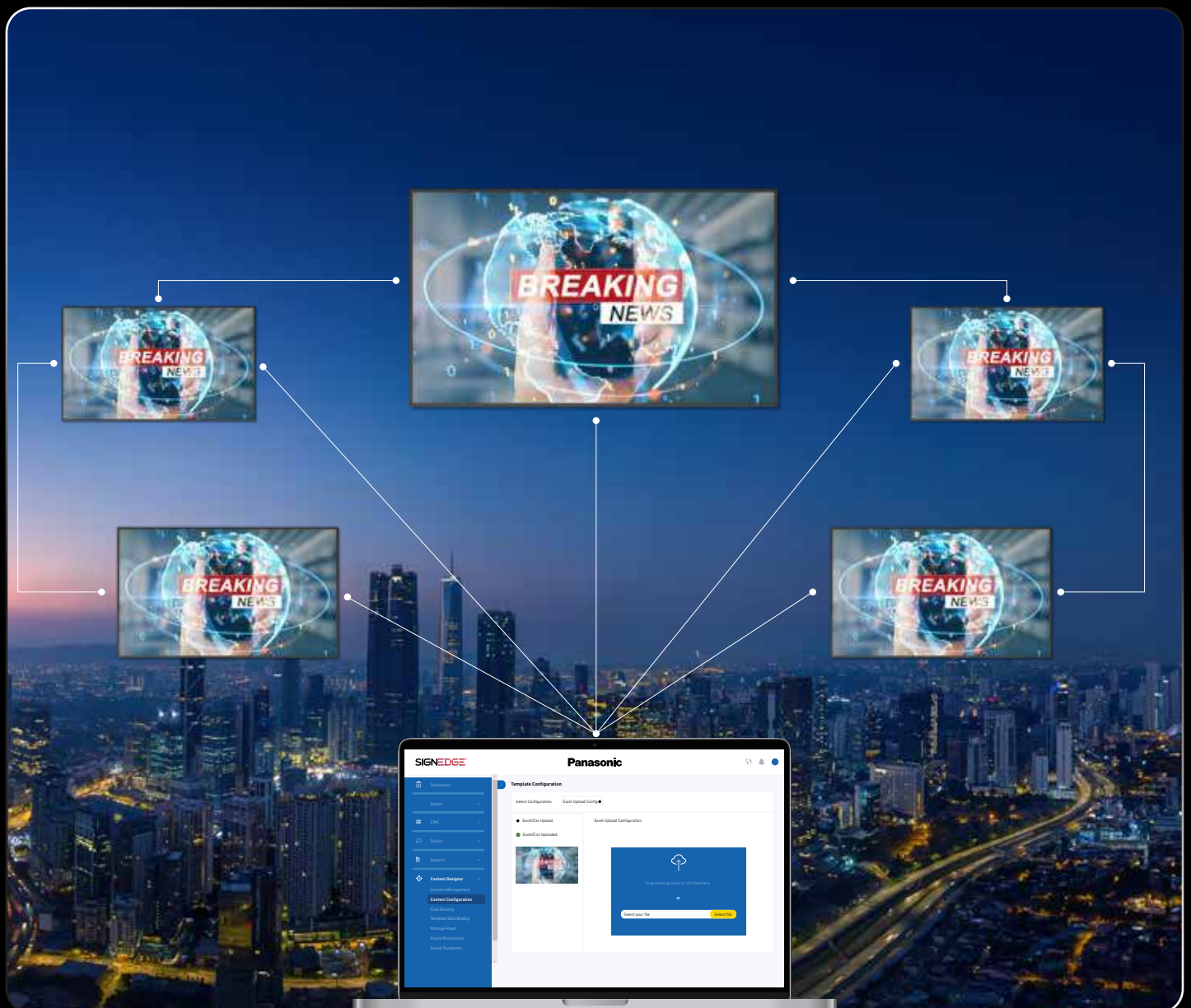
CONTENT
SCHEDULING



CONTENT
PUBLICATION



MONITORING
& CONTROL



*Please contact your Panasonic representative for further details.

SPECIFICATIONS

MODEL NUMBER	LH-NP09B	LH-NP12B	LH-NP15B
Physical Parameters			
Pixel Configuration	Flip chip COB	Flip chip COB	Flip chip COB
Pixel Pitch (mm)	0.94	1.25	1.56
Module Resolution (W x H)	160*180	120*135	96*108
Module Dimension (W x H, mm)	150*168.75	150*168.75	150*168.75
Weight per Module (kg)	0.3	0.3	0.3
NO. of Modules per Cabinet (W x H)	4*2	4*2	4*2
Cabinet Resolution (W x H)	640*360	480*270	384*216
Cabinet Dimensions (W x H x D, mm)	600*337.5*43.5	600*337.5*43.5	600*337.5*43.5
Cabinet Surface Area (m²)	0.2025	0.2025	0.2025
Weight per Cabinet (kg/Cabinet)	5	5	5
Weight per Square Meter (kg/m²)	25	25	25
Physical Pixel Density (pixels/m²)	1,137,777	640,000	409,600
Flatness of Cabinet (mm)	0.1	0.1	0.1
Cabinet Material	Aluminium Diecast	Aluminium Diecast	Aluminium Diecast
Service Access	Front & Rear	Front & Rear	Front & Rear
Optical Specifications			
Max. Brightness (After Calibration, nit)	800/1600	800/1600	800/1600
Color Temperature (K)	3000~10000	3000~10000	3000~10000
Visual Viewing Angle (H x V)	170/170	170/170	170/170
Brightness Uniformity	98.2%	98.2%	98.2%
Color Uniformity	±0.003Cx,Cy	±0.003Cx,Cy	±0.003Cx,Cy
Contrast Ratio	20000:1	20000:1	20000:1
Processing Depth (bit)	16 (Internal processing upto 22 Bits)	16 (Internal processing upto 22 Bits)	16 (Internal processing upto 22 Bits)
Electrical Specifications			
Power Consumption (W/Cabinet, Max.)	76	66	66
Power Consumption (W/Cabinet, Avg.)	36	33	33
Power Consumption (W/m², Max.)	375	325	325
Heat Dissipation (BTU/h/Cabinet, Max.)	259	225	225
Heat Dissipation (BTU/h/Cabinet, Avg.)	123	113	113
Heat Dissipation (BTU/h/m², Max.)	1280	1109	1109
Power Supply (V)	AC100~240V	AC100~240V	AC100~240V
Frame Rate (Hz)	50/60Hz	50/60Hz	50/60Hz
Refresh Rate (Hz)	3,840	3,840	3,840
Operation Specifications			
LED Lifetime (Half Brightness)	100,000	100,000	100,000
Operating Temperature (°C)	-10~40	-10~40	-10~40
Operating Humidity	10%~90%	10%~90%	10%~90%
IP Rating Front/ Rear	IP54	IP54	IP54

*Contrast Ratio @ 10 lux exceeds more than 1500000:1, for more information ask Panasonic representative.
*These values represent the maximum measurable specifications of the product. Actual performance or specifications may vary depending on the specific product and usage environment.
*Service Access Need to select one at the time of order front or rear.

*Technical specifications may change without notice.

