





\* All images in this datasheet are for illustrative purposes only.

## LG MAGNIT LSAQ Series

# Micro LED Display with Detachable PSU

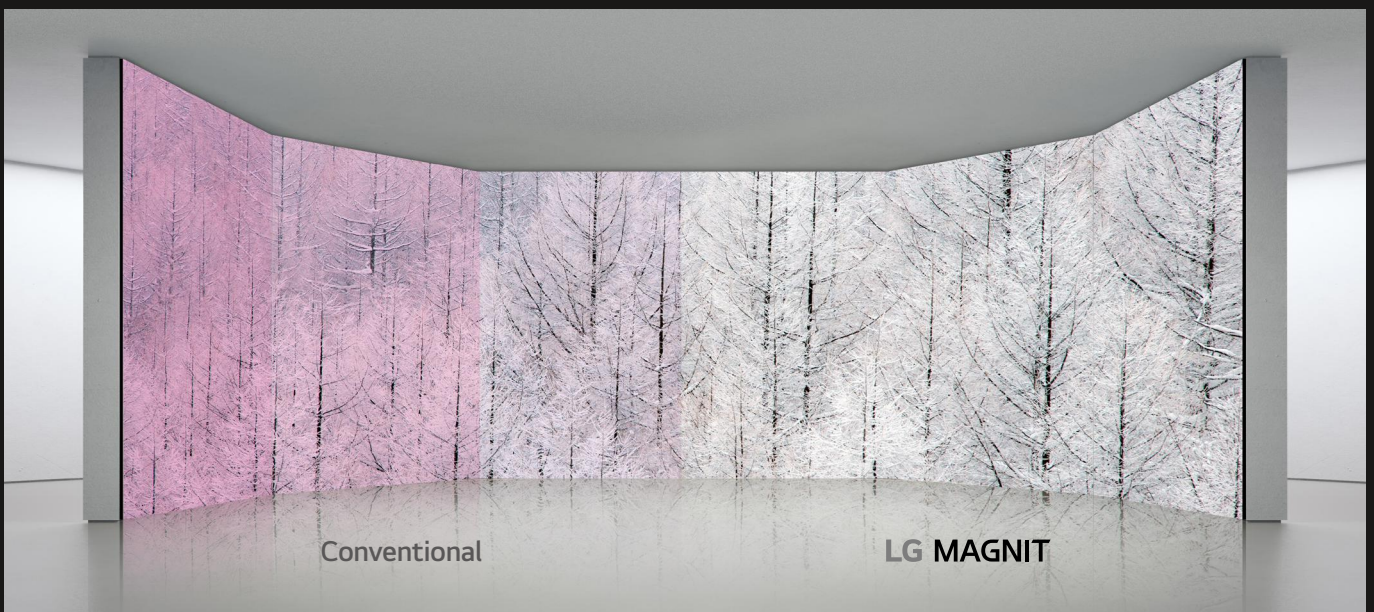
- 
Remote Power and Power Redundancy
- 
Achieving True Black
- 
Intelligent Processor
- 
Accurate Colors
- 
Wide Viewing Angle
- 
High Reliability

LSAQ Series	
Pixel Pitch	0.94 mm
Brightness	Max. 600 / Peak 1,200 nit
Weight per Cabinet	6.4 kg/Cabinet
Service Access	Front and Rear
IP Rating Front / Rear	IP50 / IP20



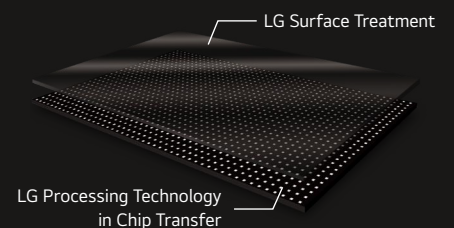
### Remote Power and Power Redundancy

LSAQ's Remote PSU (Power Supply Unit) is designed to be installed separately from the screen, rather than inside the cabinet. This unique design allows for hot swapping, which means that failed Power Module can be replaced without disrupting the operation of the screen. This results in minimal downtime and maximizes efficiency, making it an ideal choice for businesses and organizations that require uninterrupted performance.



### Enhanced Uniformity with LST (LG Surface Treatment) Technology

LG MAGNIT's innovative Chip Transfer and Surface Treatment Technology enhances white uniformity and reduces color distortion from any angle, delivering true and accurate wide-angle viewing experiences. This technology ensures remarkable color uniformity, resulting in superior image quality.

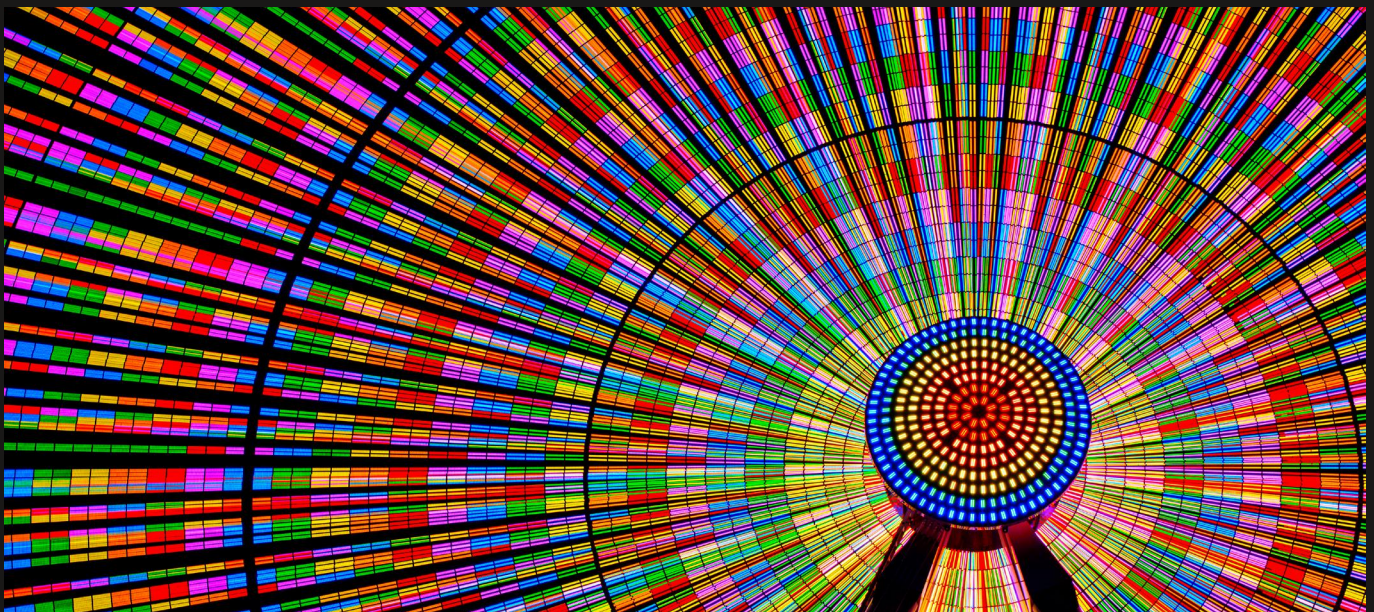




### Achieving True Black with Direct Chip Mounting

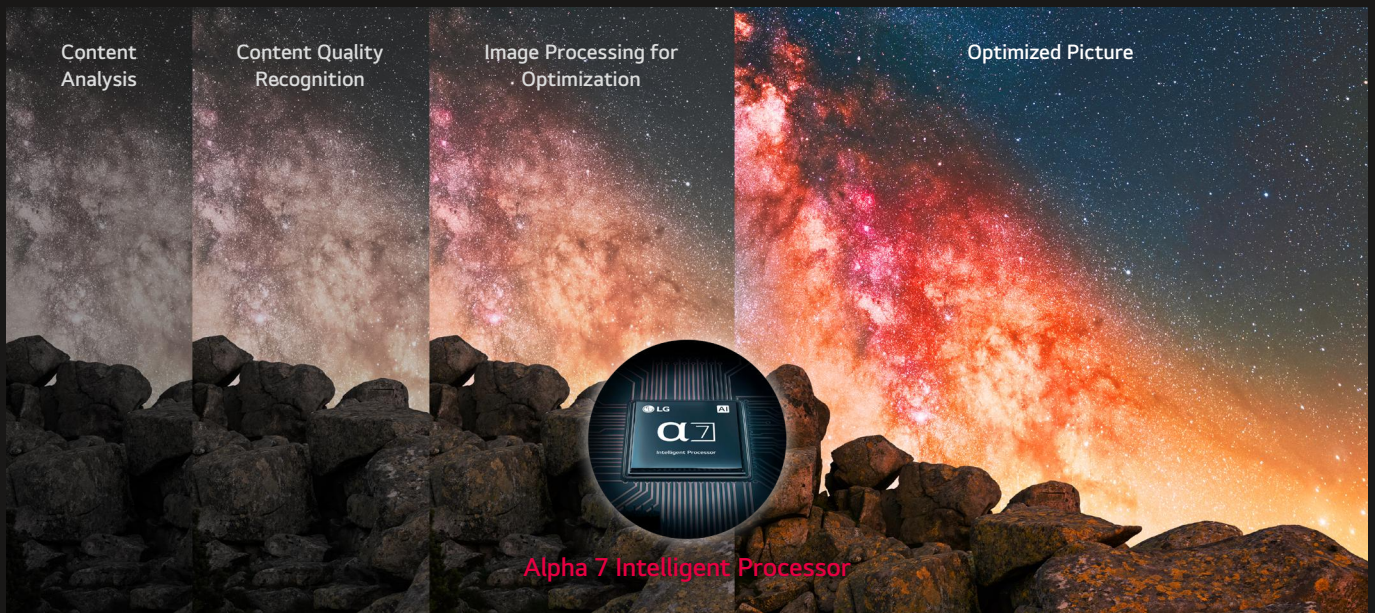
LG MAGNIT's advanced and precise method for direct bonding micro-sized chips onto circuit boards combined with the black coating technology, creates a stunning black expression that stands out compared to SMD-type LED displays. This makes it the ideal choice for displaying content that requires deep black color, ensuring that every image is rich, vibrant, and true to life.

\* Based on LG's conventional LED Signage



### Accurate Colors as Intended

By carefully selecting an LED chip which is a key factor to determine color purity, its narrowed wavelength allows LG MAGNIT to show uniform colors across the screen. Furthermore, the enhanced Gamut Transfer technology supports it to describe colors close to the original color, which is essential for places where exact color representation is demanding.



### Ai-powered Viewing Experience with Alpha 7 Processor

LG MAGNIT features an advanced AI-powered Alpha 7 Intelligent Processor that optimizes clarity and sharpness to deliver an outstanding viewing experience. Its advanced AI technology enables the processor to recognize and analyze content, tailoring the display settings for each individual scene to create a highly realistic and immersive image possible.



### Sleek Look with Smooth Surface

The screen surface of LG MAGNIT is very smooth just as LCD, making it look nice even when the screen is off. Also, audiences or installers feel soft when touching the screen. If fingerprints are on the surface, they can be simply removed by wiping with a soft cloth without the need for any chemicals.



### Care Less with Sturdy Design

Through several layers of coated film, LG MAGNIT can protect its LED chips from risks caused by water drops, dust, static electricity or physical impacts. Considering that it is usually installed in public places where many people come and go, its stability is vitally important to minimize unforeseen accidents.

\* Based on in-house testing in accordance with the certification criteria, or under actual operating conditions.



### Compatibility with LG Software Solutions

When connected with LG's CSAB system controller, the LSAQ series is compatible with LG software solutions including SuperSign CMS, LED Assistant, and ConnectedCare, which help customers operate their own business properly.

- \* The availability of the 'LG ConnectedCare' service differs by region, and it needs to be purchased separately. So please contact the LG sales representative in your region for more details.
- \* The items that can be monitored by LG ConnectedCare : Main Board (Temp., Signal Status, FPGA Ver, Ethernet Connection Status), Receiving Card (Temp., LED Power)
- \* Actual GUI may vary in different webOS versions.
- \* LG Software solutions needs to be purchased separately.

## SPECIFICATIONS

### LSAQ009-\*1

	Pitch Name	P0.94
Physical Parameters	Pixel Configuration	Micro
	Pixel Pitch (mm)	0.9375
	Module Resolution (W × H)	320 × 120
	Module Dimensions (W × H, mm)	300 × 112.5
	Weight per Module (kg)	0.19
	No. of Modules per Cabinet (W × H)	2 × 3
	Cabinet Resolution (W×H)	640 × 360
	Cabinet Dimensions (W×H×D, mm)	600 × 337.5 × 44.9
	Cabinet Surface Area (m <sup>2</sup> )	0.203
	Weight per Cabinet (kg/Cabinet)	6.4
	Weight per Square Meter (kg/m <sup>2</sup> )	31.6
	Physical Pixel Density (pixels/m <sup>2</sup> )	1,137,778
	Flatness of Cabinet (mm)	±0.5
	Cabinet Material	Extrusion Aluminum
Service Access	Front and Rear	
Optical Specifications	Max. Brightness (After Calibration, nit)	600 / (Peak) 1,200
	Color Temperature (K)	3,200-9,300 / (Default) 7,300
	Visual Viewing Angle (H × V)	160 × 160
	Brightness Uniformity	95%
	Color Uniformity	±0.02 Cx, Cy
	Contrast Ratio	100,000 : 1 @ 10lux
	Processing Depth (bit)	20 (HDR10, HDR10 Pro)
Electrical Specifications	Power Consumption (W/Cabinet, Max.)	67
	Power Consumption (W/Cabinet, Avg.)	40
	Power Consumption (W/m <sup>2</sup> , Max.)	331
	Heat Dissipation (BTU/h/Screen, Max.)	229
	Heat Dissipation (BTU/h/Screen, Avg.)	137
	Heat Dissipation (BTU/h/m <sup>2</sup> , Max.)	1,132
	Power Supply (V)	48 Vdc
	Frame Rate (Hz)	50 / 60
Operation Specifications	Refresh Rate (Hz)	3,840
	LED Lifetime (Half Brightness)	100,000
	Operating Temperature (°C)	0 to +40
	Operating Humidity	10-80% RH
	IP Rating Front / Rear	IP50 / IP20
	Certification	Safety 60950-1, EMC Class B, BS476 Part7 Class2Y
	Environment	RoHS
	Controller	CSAB-00915D
	90 Degree Corner Cut	No

\* Specifications are subject to change without notice. Please make sure to check the product manual for details about product usage.



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