



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

LG MAGNIT LSAP Series

Micro LED Display with Megapixel HELIOS LED Processing Platform



Power UI/UX with Megapixel HELIOS LED Processing Platform



Achieving True Black



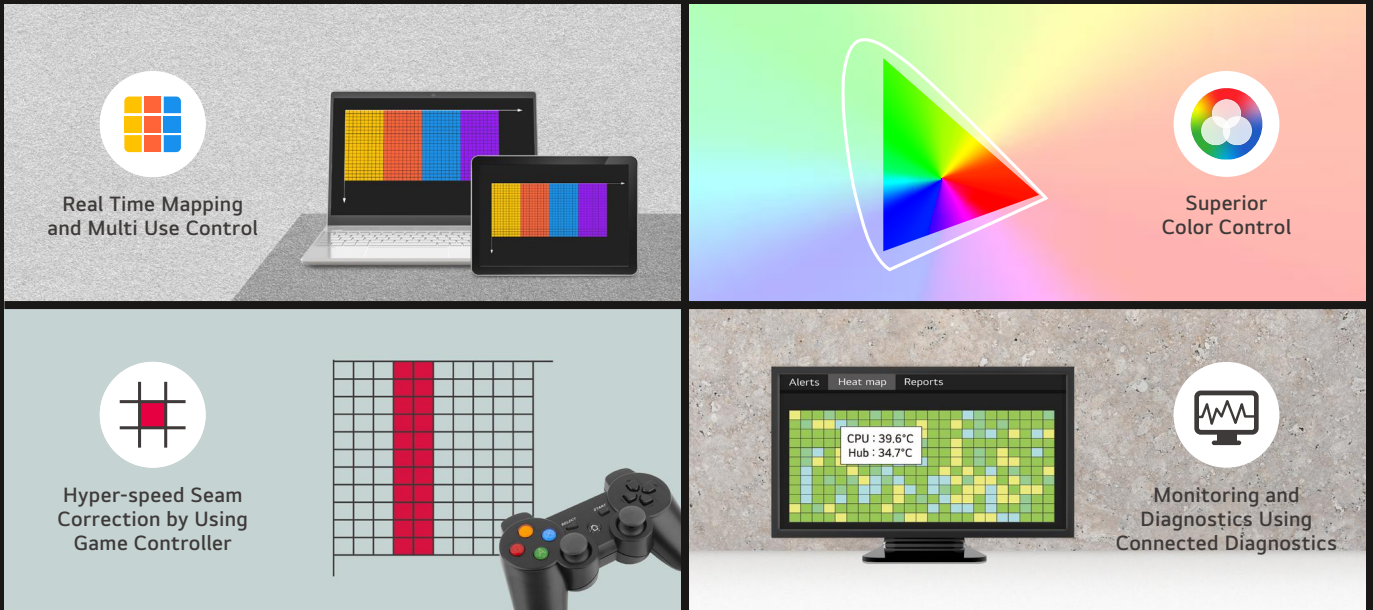
Accurate Colors



High Reliability

LSAP Series

Pixel Pitch	0.94 mm
Brightness	600 nit (Max.)
Weight per Cabinet	7.6 kg
Service Access	Front and Rear
IP Rating Front / Rear	IP50 / IP20



Powerful UI/UX with Megapixel HELIOS LED Processing Platform

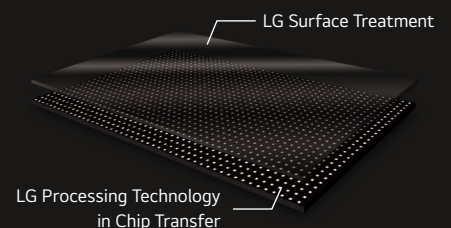
With the Megapixel HELIOS LED Processing Platform, LSAP now has the capability to utilize powerful UX and UI functionalities. Real-Time Mapping and Multi-User Control, Superior Color Control, Hyper-Speed Seam Correction using a game controller, and Monitoring and Diagnostics through connected diagnostics are all available.

* Megapixel HELIOS LED Processing Platform needs to be purchased separately



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

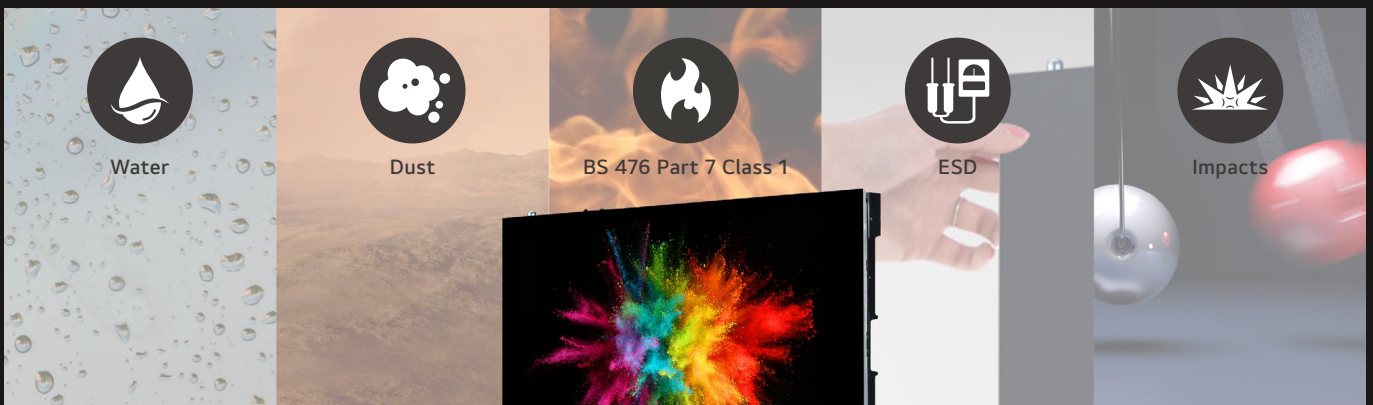
LG MAGNIT's advanced and precise method for direct bonding micro-sized chips onto circuit boards combined with the black coating technology, creates a stunning black expression that stands out compared to SMD-type LED displays. This makes it the ideal choice for displaying content that requires deep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

* Based on comparison against 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.



Care Less with Sturdy Design

Through several layers of coated film, LSAP can protect its LED chips from risks caused by water drops, dust, static electricity or physical impacts. It also meets the fire regulations with BS 476 Part 7 Class 1 certification. 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.

SPECIFICATIONS

LSAP009-U1/T1

	Pitch Name	P0.9
Physical Parameters	Pixel Configuration	COB
	Pixel Pitch (mm)	0.938
	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 ²)	0.203
	Weight per Cabinet (kg/Cabinet)	7.6
	Weight per Square Meter (kg/m ²)	37.5
	Physical Pixel Density (pixels/m ²)	1,137,778
	Flatness of Cabinet (mm)	±0.5
	Cabinet material	Die Casting Aluminum
Service Access	Front and Rear	
Optical Specifications	Max. Brightness (After Calibration, nit)	600 (Max.)
	Color Temperature (K)	2,000-10,000 / Default 6,504
	Visual Viewing Angle (H × V)	160 × 160
	Brightness Uniformity	≥ 95%
	Color Uniformity	±0.02 Cx, Cy
	Contrast Ratio	100,000 : 1 (Max.)
	Processing Depth (bit)	22 (Internal Processing (HDR10))
Electrical Specifications	Power Consumption (W/Cabinet, Max.)	68
	Power Consumption (W/Cabinet, Avg.)	47
	Power Consumption (W/m ² , Max.)	336
	Heat Dissipation (BTU/h/Cabinet, Max.)	232
	Heat Dissipation (BTU/h/Cabinet, Avg.)	160
	Heat Dissipation (BTU/h/m ² , Max.)	1,146
	Power Supply (V)	100 to 240
	Frame Rate (Hz)	23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60
Operation Specifications	Refresh Rate (Hz)	3,840
	Lifetime (Half Brightness)	100,000
	Operating Temperature (°C)	0 to +40
	Operating Humidity	10-80% RH
Standard	IP Rating Front / Rear	IP50 / IP20
	Certification	IEC 62368-1, EMC Class A, BS476 Part7 Class2Y
Environment		RoHS/REACH
Controller		Megapixel HELIOS LED Processing Platform
90 Degree Corner Cut		No

Megapixel HELIOS LED Processing Platform (Controller)

	Cabinet	LSAP, LBAG
Max Output Range	Loading Capacity	8,192 × 4,320 @ 60 Hz
	Output Resolution	35.3 Million Pixels
Input	HDMI 2.0, HDCP 2.2, DP 1.4 (HBR3), SDI (4 × 12G-SDI), OPS (ST2110)	
Output	Optic (To LED Screen) (8 × 10G)	
Control	LAN	Yes
	GenLock	Yes (In)
Video Processing	Brightness Adjustment, Chroma Adjustment, Improved Grayscale at Low Brightness, Scaling, HDR (PQ, HLG, Custom), EDID Custom	
Application	SuperSign CMS (Cross-platform Web Interface), webOS API, Configuration SW (Cross-platform Web Interface)	
Mechanical	Size (W × H × D, mm)	481.5 × 44.2 × 393
	Weight (kg)	5.7

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



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