

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

LG MAGNIT LSAP Studio Series

Micro LED Display with Megapixel VR HELIOS® Controller



Power UI/UX with MVR Controller



Achieving True Black



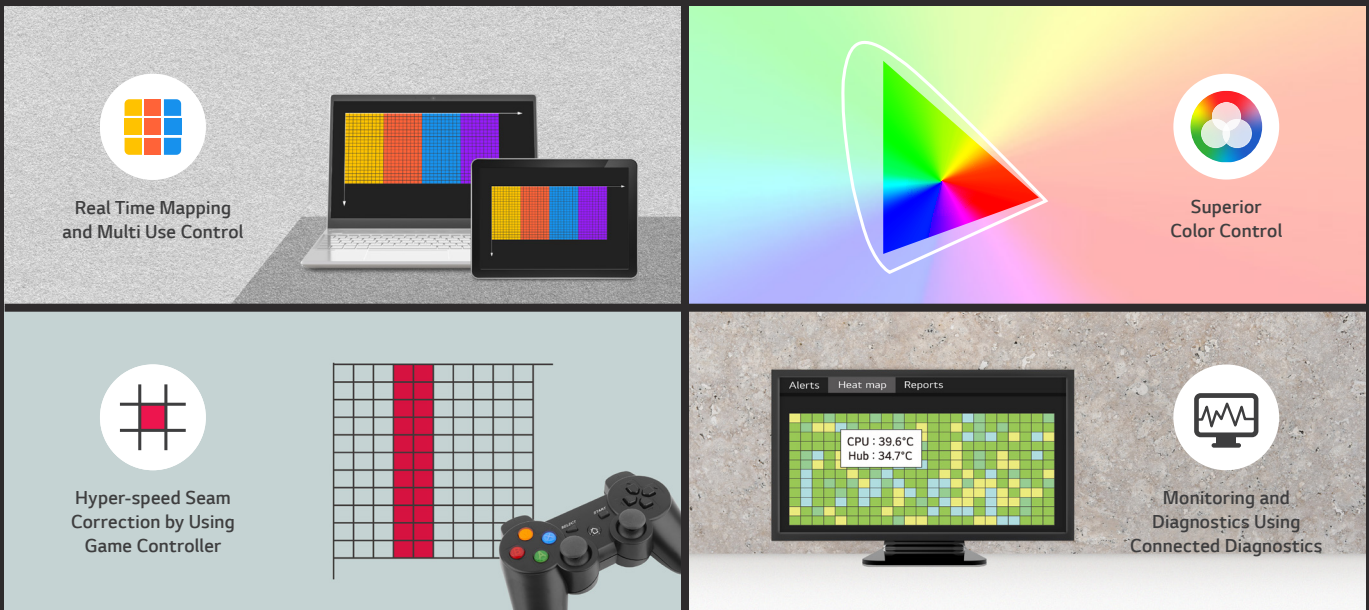
Vibrant Colors



High Reliability

LSAP Series

Pixel Pitch	0.94 mm
Brightness	600 nits (Max.)
Weight per Cabinet (lbs. / kg)	16.8 / 7.6
Service Access	Front and Rear
IP Rating Front / Rear	IP50 / IP20



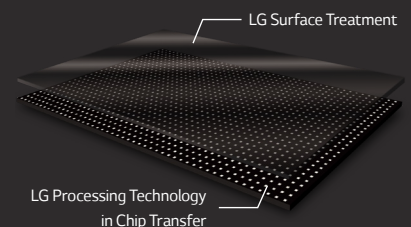
Powerful UI/UX with MVR Controller

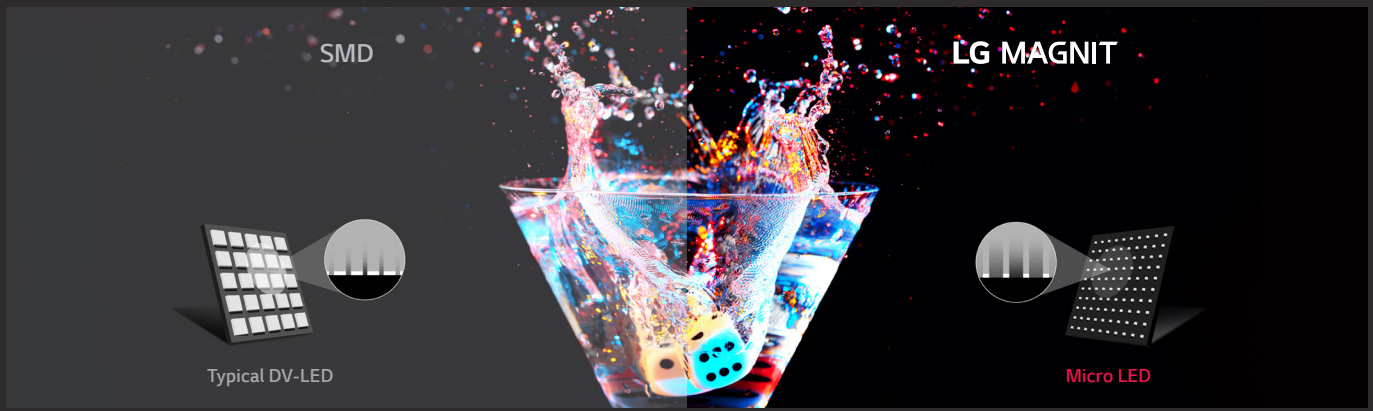
With the purchase of the MVR controller, LSAP now has the capability to utilize powerful UX and UI functionalities. Real-Time Mapping, Multi-User Control, Superior Color Control, Hyper-Speed Seam Correction, Monitoring, and Diagnostics are all available.



Enhanced Uniformity with LST (LG Surface Treatment) Technology

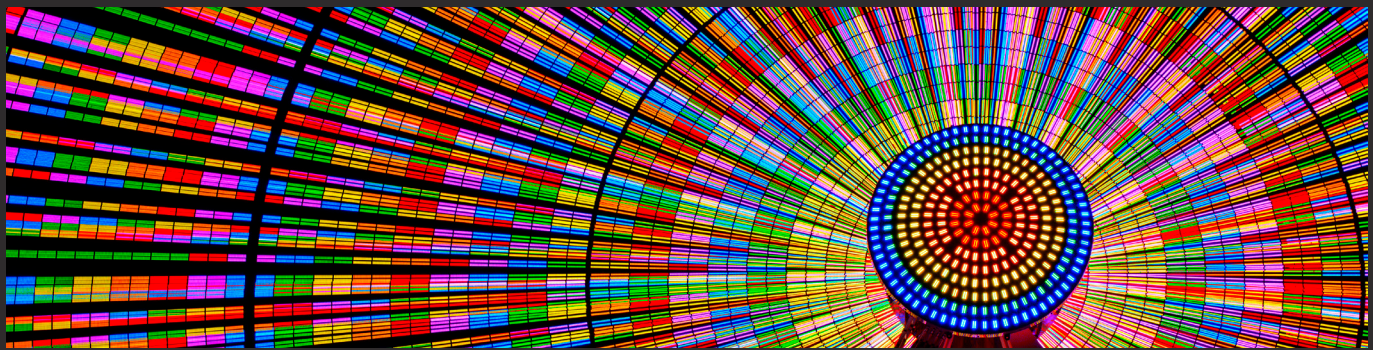
LG MAGNIT's innovative Chip Transfer and Surface Treatment Technology enhances white uniformity and reduces color distortion across a wide viewing angle, delivering true and precise viewing experiences. This technology ensures remarkable color uniformity, resulting in superb image quality.





Achieving Deep Black Color with Direct Chip Mounting

LG MAGNIT's black coating technology and direct bonding micro-sized chips onto circuit boards created a stunning black expression. This makes it the ideal choice for displaying content, ensuring that every image is rich and vibrant.



Vibrant 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. The enhanced Gamut Transfer technology delivers colors close to the original color, which is essential for places where color representation is demanding.



Sturdy Design

LSAP protects its LED chips through several layers of coated film. Considering that it is usually installed in public places and professional work areas where many people come and go, its stability is vitally important to minimize unforeseen accidents.

SPECIFICATIONS

LSAP009-U1/T1

	Pitch Name	P0.9
Physical Parameters	Pixel Configuration	COB
	Pixel Pitch (mm)	0.938
	Module Resolution (W x H)	320 x 120
	Module Dimensions (W x H, in. / mm)	11.8 x 4.4 / 300 x 112.5
	Weight per Module (lbs. / kg)	0.42 / 0.19
	No. of Modules per Cabinet (W x H)	2 x 3
	Cabinet Resolution (W x H)	640 x 360
	Cabinet Dimensions (W x H x D, in. / mm)	23.6 x 13.3 x 1.8 / 600 x 337.5 x 44.9
	Cabinet Surface Area (ft ² / m ²)	2.2 / 0.203
	Weight per Cabinet (lbs. / kg)	16.8 / 7.6
	Weight per Unit Area (lbs./ft ² / kg/m ²)	7.7 / 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, nits)	600 (Max.)
	Color Temperature (K)	2,000-10,000 / Default 6,504
	Visual Viewing Angle (H x V)	160 x 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° x 160°
	Heat Dissipation (BTU/h/m ² , Max.)	1,146
	Power Supply (Vac)	100 to 240
	Frame Rate (Hz)	23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60
Refresh Rate (Hz)	3,840	
Operation Specifications	ED lifetime (Half Brightness)	Up to 100,000 hours
	Operating Temperature (°F / °C)	32 to 104 / 0 to 40
	Operating Humidity	10-80% RH
	IP Rating Front / Rear	IP50 / IP20
Standard	Certifications	IEC 62368-1, EMC Class A, BS476 Part7 Class2Y
Other	Warranty	3 Year Limited
	Environment	RoHs/REACH
	Controller	Megapixel VR HELIOS
	90 Degree Corner Cut	No

Megapixel VR HELIOS Controller

	DVLED Cabinet	LSAP, LBAG
Max Output Range	Loading Capacity	8,192 x 4,320 @ 60 Hz
	Output Resolution	35.3 Million Pixels
Input	HDMI 2.0, HDCP 2.2, DP 1.4 (HBR3), SDI (4 x 12G-SDI), OPS (ST2110)	
Output	Optic (To LED Screen) (8 x 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 x H x D, in. / mm)	19 x 1.7 x 15.5 / 481.5 x 44.2 x 393
	Weight (lbs. / kg)	12.6 / 5.7

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