LG Business Solutions

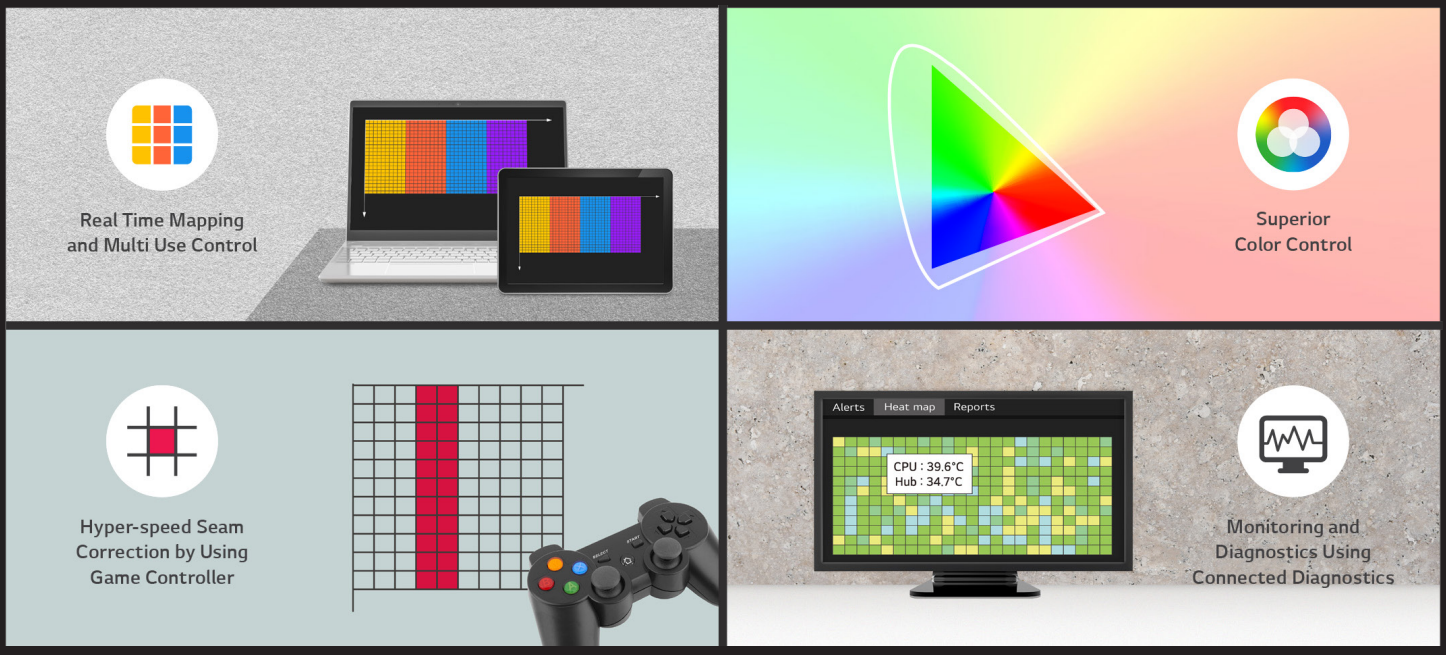
* All images in this datasheet are for illustrative purposes only.

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 Studio Series	
Pixel Pitch	0.78 / 0.94 / 1.25 mm
Max Brightness After Calibration	600 nits (0.78 mm) 800 nits (0.94 / 1.25 mmm)
Weight per Cabinet (lbs. / kg)	17.2 / 7.8
Service Access	Front
IP Rating Front / Rear	IP50 / IP20

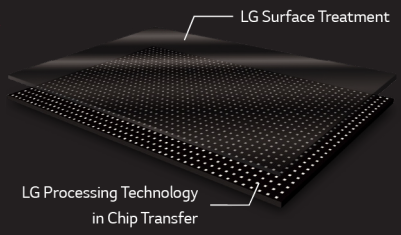


Powerful UI/UX with MVR Controller

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.

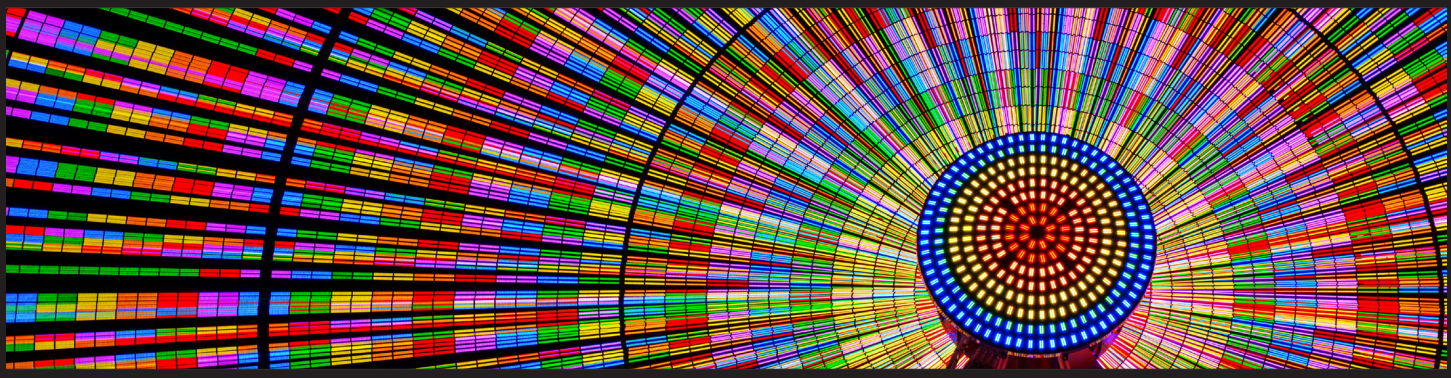
Enhanced Uniformity with LST (LG Surface Treatment) Technology

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.

	Model Name	LSAP007	LSAP009	LSAP012
Physical Parameters	Pixel Configuration	COB	COB	COB
	Pixel Pitch (mm)	0.78	0.94	1.25
	Module Resolution (WxH)	384 x 144	320 x 120	240 x 90
	Module Dimensions (W x H)	11.8 x 4.4 in. 300 x 112.5 mm	11.8 x 4.4 in. 300 x 112.5 mm	11.8 x 4.4 in. 300 x 112.5 mm
	Weight per Module	0.4 lbs. / 0.18 kg	0.4 lbs. / 0.17 kg	0.4 lbs. / 0.16 kg
	No. of Modules per Cabinet (WxH)	2 x 3	2 x 3	2 x 3
	Cabinet Resolution (WxH)	768 x 432	640 x 360	480 x 270
	Cabinet Dimensions (W x H x D, mm)	23.6 x 13.3 x 1.8 in. 600 x 337.5 x 44.9 mm	23.6 x 13.3 x 1.8 in. 600 x 337.5 x 44.9 mm	23.6 x 13.3 x 1.8 in. 600 x 337.5 x 44.9 mm
	Cabinet Surface Area	2.2 ft^2 / 0.2 m^2	2.2 ft^2 / 0.2 m^2	2.2 ft^2 / 0.2 m^2
	Weight per Cabinet	17.2 lbs. / 7.8 kg	17.2 lbs. / 7.8 kg	17.2 lbs. / 7.8 kg
	Weight per Unit Area	7.9 lbs/ft^2 / 38.5 kg/m^2	7.9 lbs/ft^2 / 38.5 kg/m^2	7.9 lbs/ft^2 / 38.5 kg/m^2
	Physical Pixel Density (pixels/㎡)	1,638,400	1,137,778	640,000
	Flatness of Cabinet (mm)	±0.5	±0.5	±0.5
	Cabinet material	Die-casting Aluminum	Die-casting Aluminum	Die-casting Aluminum
	Service access	Front	Front	Front
Optical Specifications	Brightness (After Calibration, nits)	Max. 600	Max. 800	Max. 800
	Color Temperature (K)	2,000~10,000 / Default 6,504	2,000~10,000 / Default 6,504	2,000~10,000 / Default 6,504
	Visual Viewing Angle (Horizontal)	150°	150°	150°
	Visual Viewing Angle (Vertical)	150°	150°	150°
	Brightness Uniformity	0.95	0.95	0.95
	Color Uniformity	±0.02Cx,Cy	±0.02Cx,Cy	±0.02Cx,Cy
	Contrast Ratio	17,000:1 @10lux	23,000:1 @10lux	24,000:1 @10lux
	Processing Depth (bit)	22bit Internal processing (HDR10)	22bit Internal processing (HDR10)	22bit Internal processing (HDR10)
Electrical Specifications	Max. Power Consumption per Cabinet (W)	70	75	90
	Avg. Power Consumption per Cabinet (W)	40	38	45
	Max. Power Consumption (W/m^2)	346	370	444
	Max. Heat Dissipation per Cabinet (BTU/hr)	239	256	307
	Avg. Heat Dissipation per Cabinet (BTU/hr)	136	130	154
	Max. Heat Dissipation (BTU/h/m^2)	1,179	1264	1,516
	Power Supply (Vac)	100 to 240	100 to 240	100 to 240
	Frame Rate (Hz)	23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60	23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60	23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60
	Refresh Rate (Hz)	3,840	3,840	3,840
Operation Specifications	LED Lifetime* (Half brightness)	100,000 Hours	100,000 Hours	100,000 Hours
	Operating Temperature	32°F to +104°F 0°C to +40°C	32°F to +104°F 0°C to +40°C	32°F to +104°F 0°C to +40°C
	Operating Humidity	10% to 80% RH	10% to 80% RH	10% to 80% RH
	IP rating Front	IP50	IP50	IP50
	IP rating Rear	IP20	IP20	IP20
Regulatory	Certifications	Safety 62368-1 EMC Class A	Safety 62368-1 EMC Class A	Safety 62368-1 EMC Class A
	Certifications (Fire Protection)	BS476 Part7 Class1	BS476 Part7 Class1	BS476 Part7 Class1
Warranty & Other	Warranty	3 Year Limited Up to 5 w/ ExtendedCare (Optional)	3 Year Limited Up to 5 w/ ExtendedCare (Optional)	3 Year Limited Up to 5 w/ ExtendedCare (Optional)
	Environmental	RoHS, REACH	RoHS, REACH	RoHS, REACH
	Controller	MEGAPIXEL(HELIOS)	MEGAPIXEL(HELIOS)	MEGAPIXEL(HELIOS)
	90 degree corner cut	No	No	No

* Lifetime spec does not supercede 3 Year Limited Warranty

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