



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

Indoor LED LSAC

54" LED Video Wall Display



Easy Replacement and Undemanding Maintenance



Optimum Cable-less Design for Simple Installation



Bezel-less LED Display



Alpha 7 Intelligent Processor

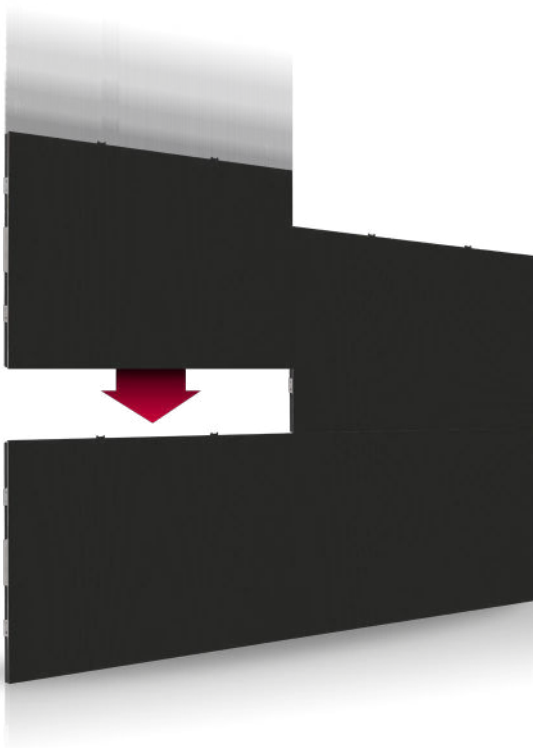


LG webOS Smart Platform

LSAC

Pixel Pitch	1.25 / 1.88 / 2.5 mm
Brightness	Peak. 1,000 nit / Max. 600 nit
Weight per Cabinet	23.5 / 23.2 / 22.5 kg
Serviceability	Front
IP Rating	IP20

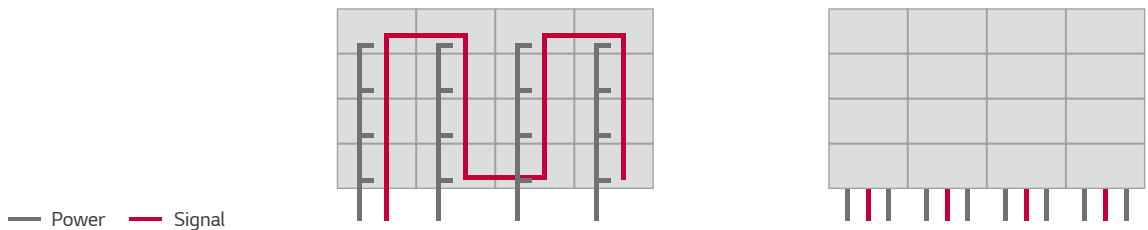
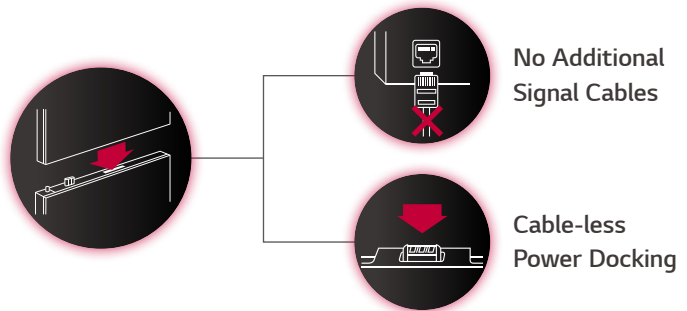
Optimum Cable-less Design for Simple Installation



Cable-less Signal Transmission & Power Docking

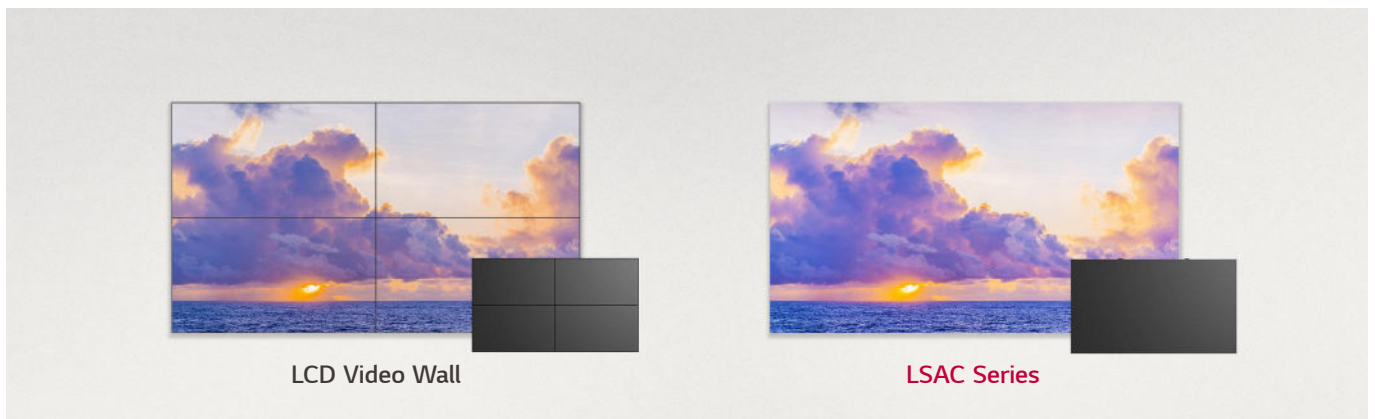
The LSAC series is the innovative LED signage applying the cableless transmission technology with non connectors*. For up to UHD resolution with the 16:9 ratio, it does not require a cable connection between the cabinets to supply signal & power. Its block assembly design makes the LSAC series easier to be installed than before.

* Non Connectors: Connectors that use RF (Radio Frequency) to transmit and receive data between two devices.



— Power — Signal

	LCD Video Wall 4x4	LSAC Series 4x4
The Number of Signal Cables	16 ea	4 ea
The Number of Power Cables	16 ea	8 ea
Lifetime (Half Brightness)	60,000 Hr	100,000 Hr

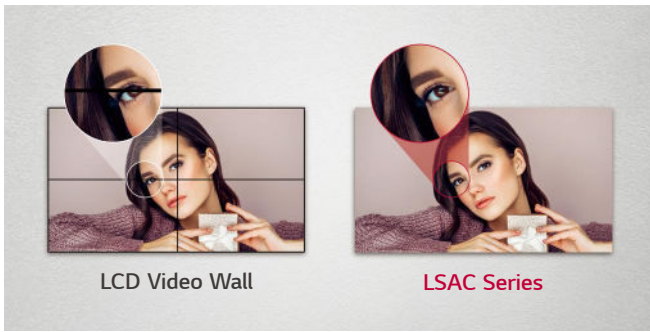


Easy Replacement and Undemanding Maintenance

Upgrade your existing 55-inch LCD video wall to the latest technology and LED display without having to secure additional space.

* The product can be installed using VESA wall-mount (600x400) and screws.

* The VESA wall-mount or any other wall-mounts are sold separately.



Bezel-less LED Display

Unlike the LCD video walls, LSAC series is truly bezel-free, so audiences can focus on visual content in its entirety without any bezel interference between displays.



Vivid Color Expression Powered by HDR

With HDR (HDR10, HDR10 Pro*) support, content becomes vivid with great visual impact. The wider color spectrum and greater contrast ratio allow viewers to fully enjoy lively content.

* HDR10 Pro is LG's own HDR solution for processing HDR signal by using enhanced dynamic tone mapping.

	Class A	Class B
USA	Non-residential	Residential
EU	Industrial	Residential, Commercial, Light Industrial

Emissions Increase

EMC Class B Certified

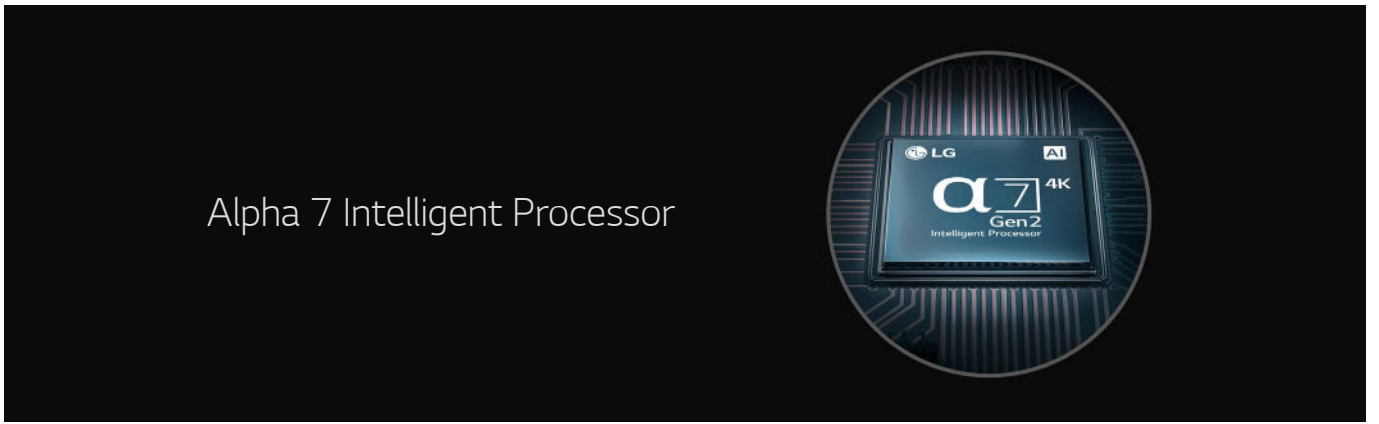
The LSAC series is certified as EMC Class B, which requires electronic equipment made for use in residential environments as well as commercial, industrial, or business environments. Therefore, it is suitable for up-close uses such as corporate meeting rooms, board rooms, etc.

LG Conventional LED Signage	LSAC Series
20~25W per cabinet	10W per cabinet

No Input

Standby Mode

When there is no input signal for a period of time, the screen turns off and the main circuit parts inside the LED cabinet go to a standby mode. This saves additional power consumption and enables the product to be reactivated simply by using a remote control.



Optimized Image Quality with α7 Intelligent Processor

The "Alpha 7 Intelligent Processor" applied to the LSAC series recognizes and analyzes the original content, optimizing the clarity and sharpness of the content for itself.

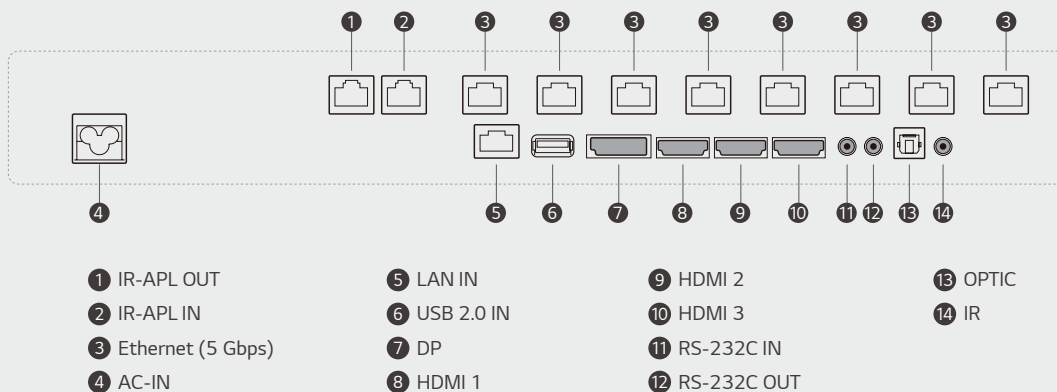


Compatibility with LG Software Solutions

When connected with LG's CSAC system controller, the LSAC 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.
- * SuperSign CMS service needs to be purchased separately.

CONNECTIVITY SYSTEM CONTROLLER



SPECIFICATIONS

	LSAC012-MK/SK	LSAC018-MK/SK	LSAC025-MK/SK	
Pitch Name	P1.25	P1.875	P2.50	
Physical Parameters	Pixel Configuration	Single SMD	Single SMD	
	Pixel Pitch (mm)	1.25	1.875	2.5
	Module Resolution (W × H)	240 × 180	160 × 120	120 × 90
	Module Dimensions (W × H, mm)	300 × 225	300 × 225	300 × 225
	Weight per Module (kg)	0.63	0.59	0.59
	No. of Modules per Cabinet (W × H)	4 × 3	4 × 3	4 × 3
	Cabinet Resolution (W × H)	960 × 540	640 × 360	480 × 270
	Cabinet Dimensions (W × H × D, mm)	1,200 × 675 × 51	1,200 × 675 × 51	1,200 × 675 × 51
	Cabinet Surface Area (m ²)	0.81	0.81	0.81
	Weight per Cabinet (kg/unit)	23.5	23.2	22.5
	Weight per Square Meter (kg/m ²)	29.0	28.6	27.8
	Physical Pixel Density (pixels/m ²)	640,000	284,444	160,000
	Flatness of Cabinet (mm)	±0.5	±0.5	±0.5
	Cabinet Material	Die Cast Aluminum	Die Cast Aluminum	Die Cast Aluminum
	Service Access	Front	Front	Front
Optical Specifications	Max Brightness (After Calibration, nit)	Peak 1,000 / Max. 600	Peak 1,000 / Max. 600	Peak 1,000 / Max. 600
	Color Temperature (K)	3,200-9,300	3,200-9,300	3,200-9,300
	Visual Viewing Angle (H × V)	160 × 160	160 × 160	160 × 160
	Brightness Uniformity	95%	95%	95%
	Color Uniformity	±0.015 Cx, Cy	±0.015 Cx, Cy	±0.015 Cx, Cy
	Contrast Ratio	Peak 9,000 : 1 / Typ. 5,000 : 1	Peak 9,000 : 1 / Typ. 5,000 : 1	Peak 9,000 : 1 / Typ. 5,000 : 1
	Processing Depth (bit)	20 (HDR10, HDR10 Pro)	20 (HDR10, HDR10 Pro)	20 (HDR10, HDR10 Pro)
Electrical Specifications	Power Consumption (W/Cabinet, Max.)	320	320	290
	Power Consumption (W/Cabinet, Avg.)	210	210	190
	Power Consumption (W/m ² , Max.)	395	395	358
	Heat Dissipation (BTU/h/Cabinet, Max.)	1,092	1,092	990
	Heat Dissipation (BTU/h/Cabinet, Avg.)	717	717	648
	Heat Dissipation (BTU/h/m ² , Max.)	1,348	1,348	1,222
	Power Supply (V)	100 to 240	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60	50 / 60
	Refresh Rate (Hz)	3,840	3,840	3,840
Operation Specifications	LED Lifetime (Half Brightness)	100,000	100,000	100,000
	Operating Temperature (°C)	0 to +40	0 to +40	0 to +40
	Operating Humidity	10-80% RH	10-80% RH	10-80% RH
	IP Rating Front / Rear	IP20	IP20	IP20
Certification	Safety 60950-1, EMC Class B, BS476 Part7 Class1	Safety 62368-1, EMC Class B, BS476 Part7 Class1	Safety 60950-1, EMC Class B, BS476 Part7 Class1	
Environment	RoHS	RoHS	RoHS	
Controller	CSAC-012K	CSAC-018K	CSAC-025K	
90 Degree Corner Cut	No	No	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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