



* All images in this datasheet are for illustrative purposes only



Indoor LED

LSAC 54" Cabinet Series



Easy Replacement and Undemanding Maintenance



Optimum Cable-less Design for Simple Installation



Bezel-less LED Display



Alpha 7 Intelligent Processor



LG webOS 4.1 Smart Platform

LSAC Series

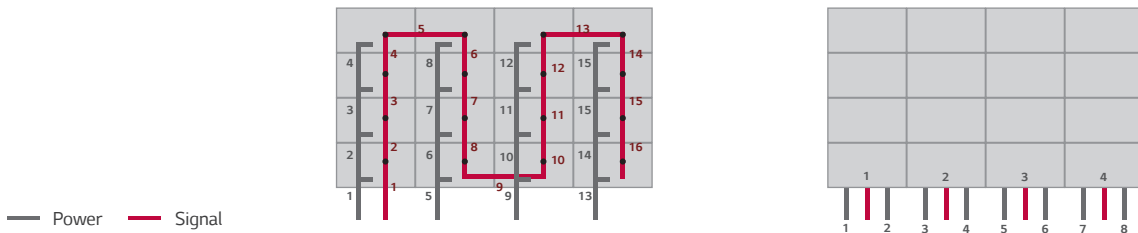
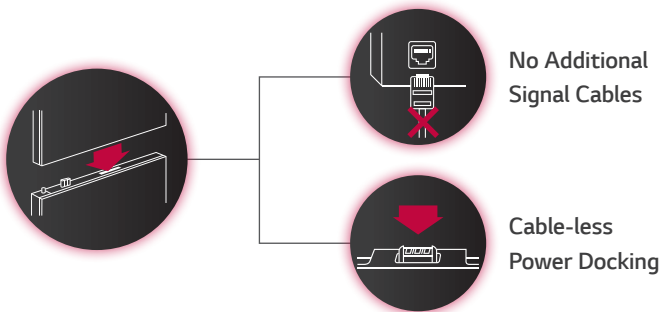
Pixel Pitch	2.5 mm
Max Brightness After Calibration	600 nits
Weight per Cabinet	49.6 lbs / 22.5 kg
Serviceability	Front
IP Rating	IP20

Optimum Cable-less Design for Simple Installation

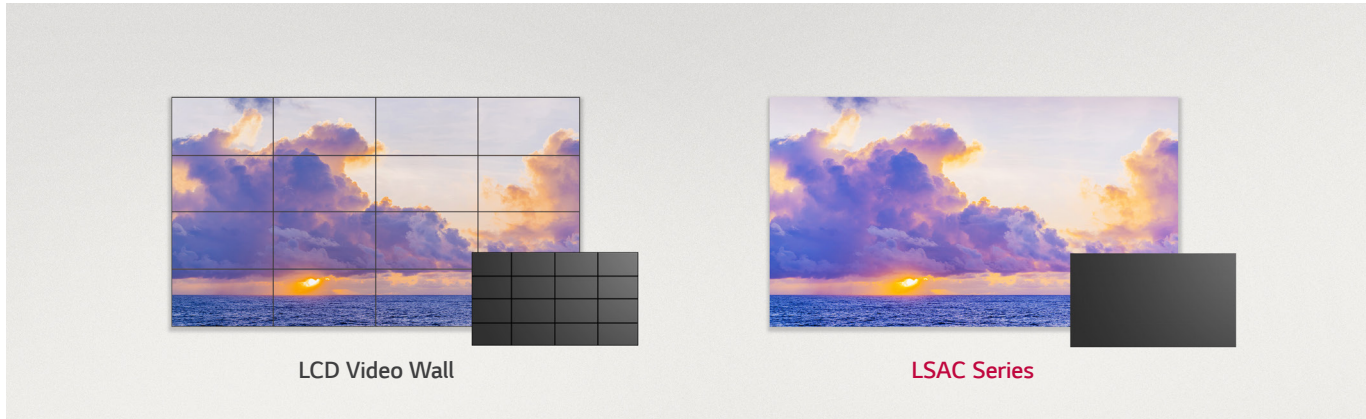
Cable-less Signal Transmission & Power Docking

The LSAC series is the innovative LED signage applying wireless radio frequency transmission technology to transmit and receive data between cabinets. Its block assembly design and cable-less power connectors make the LSAC series easier to install than DVLED panels that require wire connections for the data signal and power.*

* Cable-less applies only between panels. From the panels to the power supply, cables are still required for the data signal and power.



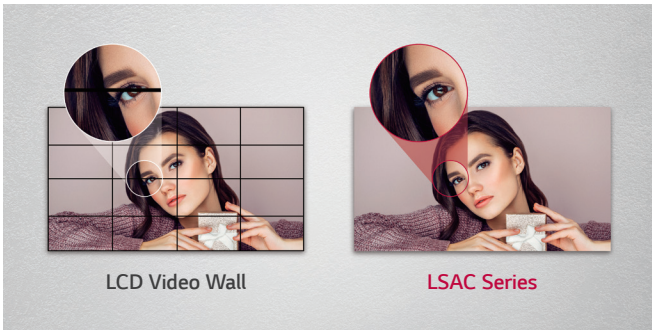
	LCD Video Wall 4x4	LSAC Series 4x4
The Number of Signal Cables	16 ea	4 ea
The Number of Power Cables	16 ea	8 ea



Replace LCD Video Walls with Seamless Perfection

Upgrade your existing 55-inch LCD video wall to the latest technology that will create a single, seamless display in virtually the same space.

* Wall mounts sold separately. Choose between traditional DVLED mounting system or use the standard LCD VESA 600x400 mounting system.



Bezel-less LED Display

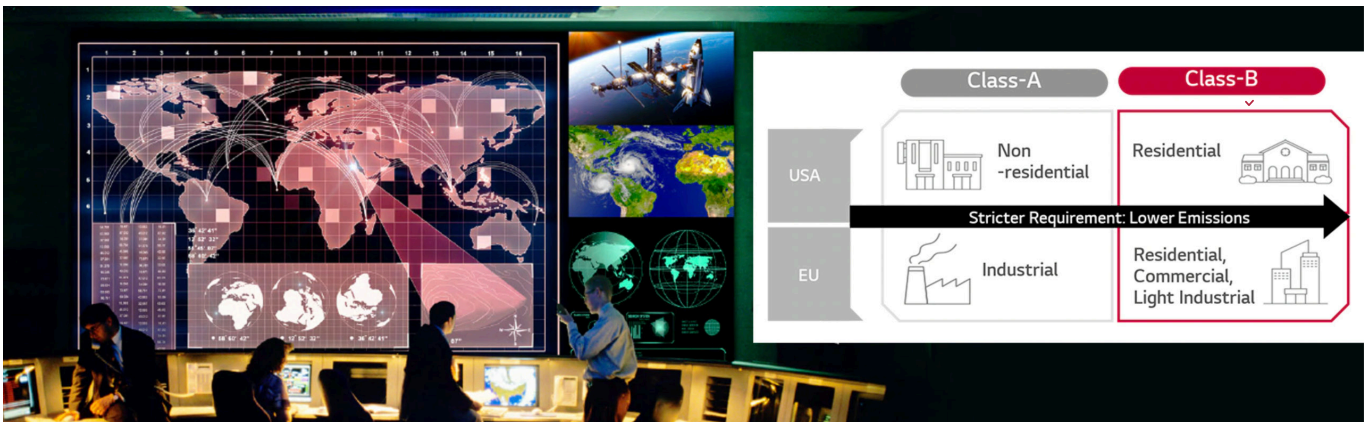
Unlike the LCD video walls, LSAC series is truly bezel-free, so audiences can focus on visual content in its entirety without bezel interference between displays.



Vivid Color Expression Powered by HDR

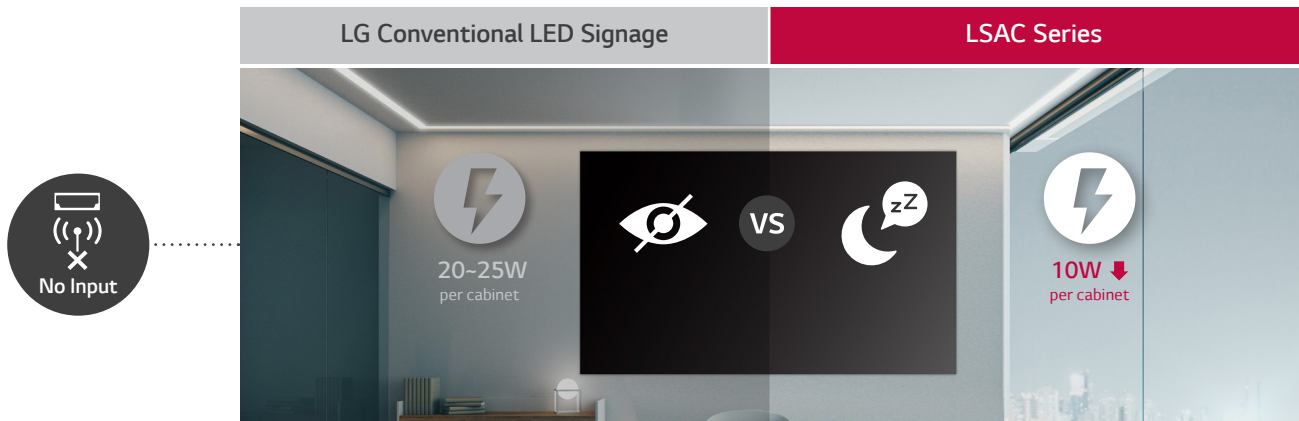
With HDR10 and HDR10 Pro* support, content is vivid with great visual impact. The wider color spectrum and greater contrast ratio over non-HDR allow viewers to fully enjoy lively content.

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



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.



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. The LSAC can then be reactivated simply by using a remote control.



Optimized Image Quality with a 7 Intelligent Processor

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

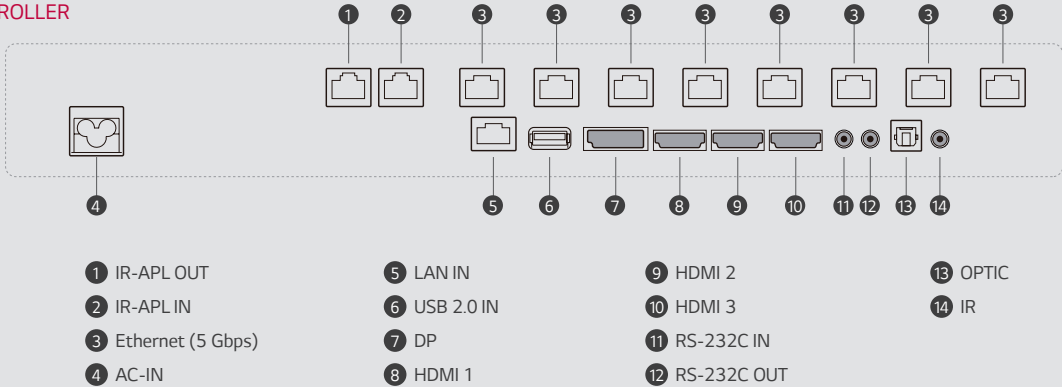


Compatibility with LG Software Solutions

Powered by LG's high performance system controller, the LSAC series is compatible with LG software solutions including SuperSign CMS, LED Assistant, and ConnectedCare, which help customers have even more control over their systems.*

* LG ConnectedCare and LG SuperSign CMS are each sold separately. Actual user interface may vary in different webOS versions. All screen images are simulated.

CONNECTIVITY** SYSTEM CONTROLLER



** Jack Panels may differ from the above image, so please contact LG sales team to verify before ordering.

SPECIFICATIONS*

	LSAC025-MK	LSAC025-SK	
PHYSICAL PARAMETERS	Pixel Configuration	3 in 1 SMD	3 in 1 SMD
	Pixel Pitch	2.50 mm	2.50 mm
	Module Resolution (W x H)	120 x 90	120 x 90
	Module Dimensions (W x H)	11.8 x 8.9 in 300 x 225 mm	11.8 x 8.9 in 300 x 225 mm
	Weight per Module	0.95 lb / 430 g	0.95 lb / 430 g
	No. of Modules per Cabinet (W x H)	4 x 3	4 x 3
	Cabinet Resolution (W x H)	480 x 270	480 x 270
	Cabinet Dimensions (W x H x D)	47.2 x 26.7 x 2.0 in 1200 x 675 x 51 mm	47.2 x 26.7 x 2.0 in 1200 x 675 x 51 mm
	Cabinet Surface Area	8.72 ft ² / 0.81 m ²	8.72 ft ² / 0.81 m ²
	Weight per Cabinet	49.6 lbs / 22.5 kg	49.6 lbs / 22.5 kg
	Weight per Unit Area	5.69 lb/ft ² / 27.8 kg/m ²	5.69 lb/ft ² / 27.8 kg/m ²
	Physical Pixel Density	14,864 pixels/ft ² / 160,000 pixels/m ²	14,864 pixels/ft ² / 160,000 pixels/m ²
	Flatness of Cabinet	±0.5 mm	±0.5 mm
	Cabinet material	Die-cast Aluminum	Die-cast Aluminum
	Service access	Front	Front
OPTICAL SPECIFICATIONS	Max Brightness After Calibration	600 nits	600 nits
	Color Temperature	3,200K to 9,300K	3,200K to 9,300K
	Visual Viewing Angle (Horizontal)	160°	160°
	Visual Viewing Angle (Vertical)	160°	160°
	Brightness Uniformity	95%	95%
	Color Uniformity	±0.015Cx,Cy	±0.015Cx,Cy
	Contrast Ratio (Typ)	5,000:1	5,000:1
	Contrast Ratio (Peak)	9,000:1	9,000:1
	Processing Depth	20 bit (HDR10, HDR10 Pro)	20 bit (HDR10, HDR10 Pro)
ELECTRICAL SPECIFICATIONS	Max Power Consumption	290 W/cabinet 358 W/m ²	290 W/cabinet 358 W/m ²
	Avg Power Consumption	190 W/cabinet	190 W/cabinet
	Max Heat Dissipation	990 BTU/h/cabinet 1,222 BTU/h/m ²	990 BTU/h/cabinet 1,222 BTU/h/m ²
	Avg Heat Dissipation	648 BTU/h/cabinet	648 BTU/h/cabinet
	Power Supply	100 to 240 Vac	100 to 240 Vac
	Frame Rate	50 / 60 Hz	50 / 60 Hz
	Refresh Rate	3,840 Hz	3,840 Hz
	Typical Inrush Current	130 A (220Vac @50Hz) (Include Power Redundancy)	Typ 130A (220Vac@50Hz) (Include Power Redundancy)
	Typical Leakage Current	0.6mA (220Vac @50Hz) (Include Power Redundancy)	0.6mA (220Vac@50Hz) (Include Power Redundancy)
OPERATION SPECIFICATIONS	LED Lifetime (Half brightness)	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
	Operating Humidity	10-80% RH	10-80% RH
	IP rating - Front	IP20	IP20
	IP rating - Rear	IP20	IP20
CERTIFICATIONS	IEC 60950-1 EMC Class B BS476 Part7 Class1	IEC 60950-1 EMC Class B BS476 Part7 Class1	
ENVIRONMENT	RoHS	RoHS	
CONTROLLER	CSAC-025K	CSAC-025K	

CONTROLLER SPECIFICATIONS

CSAC-025K

COMPATIBLE CABINET MODELS		LSAC025-MK/SK				
OUTPUT	Loading Capacity	3840 x 2160 @60Hz				
	Max Output Range	3840 x 2160 pixels				
	Output Resolution	8.2944 Millon Pixels				
CONNECTIVITY	HDMI	HDMI 2.0				
	HDCP	HDCP 2.2				
	DP	DP 1.2 / HDCP 2.2				
	PROTOCOLS	CONECTIVITY MODE	MEDIA CONTAINER	VIDEO CODEC	AUDIO CODEC	EMULATOR SUPPORT
		HLS V3	TS	H.264	MP3, AAC, AC-3	Yes
		UDP	TS	MPEG-2, H.264	MPEG-1 layer 1 & 2, MPEG-1 layer 3, AAC, AC-3	Yes
			MP4	H.264	MPEG-1 layer 1 & 2, MPEG-1 layer 3, AAC, AC-3	
		RTP	TS	MPEG-2	MPEG-1	No
			MKV	H.264	MPEG-1, AC-3	
			MP4	H.264	MP3, AAC, AC-3	
RTSP		TS	MPEG-1/2, MPEG-4, H.264	MPEG-1 layer 1 & 2, MPEG-1 layer 3, AAC	Yes	
	M4E	MPEG-4	--			
CONTROL	LAN	Yes (8-channel)				
	RS-232C	Yes (LOOP)				
SENSOR	Ambient Light	Yes				
	Temperature	Yes				
VIDEO PROCESSING	Brightness Adjustment	Yes				
	Chroma Adjustment	Yes				
	Improved Grayscale at Low Brightness	Yes				
	Scaling	Yes (external sources only)				
	HDR	HDR10 Pro				
APPLICATIONS¹	webOS Version	4.1				
	Content Management	SuperSign CMS				
	webOS API	Yes				
	LG ConnectedCare	Yes				
	Configuration SW	LED Assistant				
MECHANICAL	Size (W x H x D)	17.4 x 2.5 x 11.7 in 443 x 63 x 298 mm				
	Weight	9.9 lbs. / 4.5 kg				

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