LG | Business Solutions

SMART CITY PROJECT

SOCIETY

HOME

ENERGY

MOBILITY

RETAIL

SECURITY

HEALTHCARE

Woodland park area
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Shopping centers
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Skyscrapers
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City government
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Transport
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Business centers
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Roads
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High/intelligential buildings
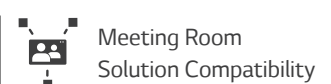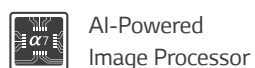Lorem ipsum dolor sit amet, consectetur adipiscing elit.

reddot winner 2020

LG LED Signage LSAA Series

True Innovation Behind Simplicity

Cable-less Between Modules

AI-Powered Image Processor

Dedicated Accessories
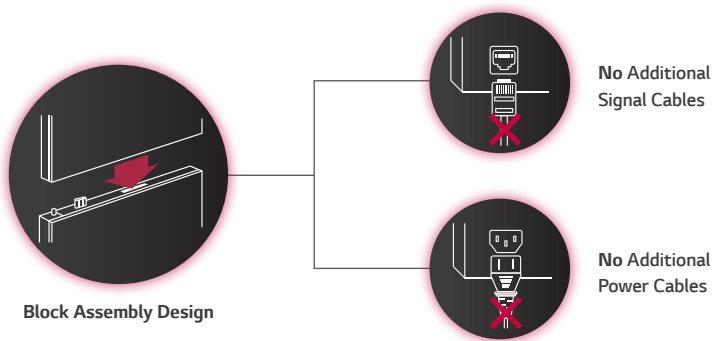
Meeting Room Solution Compatibility
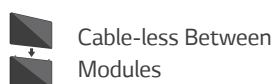
CABLE-LESS DESIGN FOR SIMPLE INSTALLATION
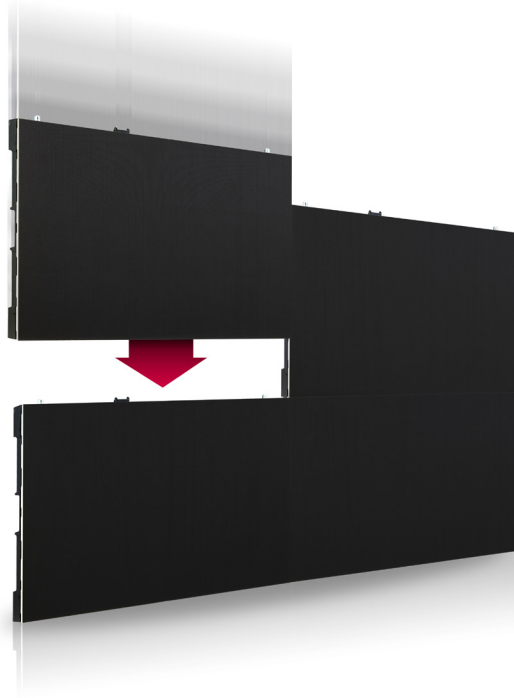
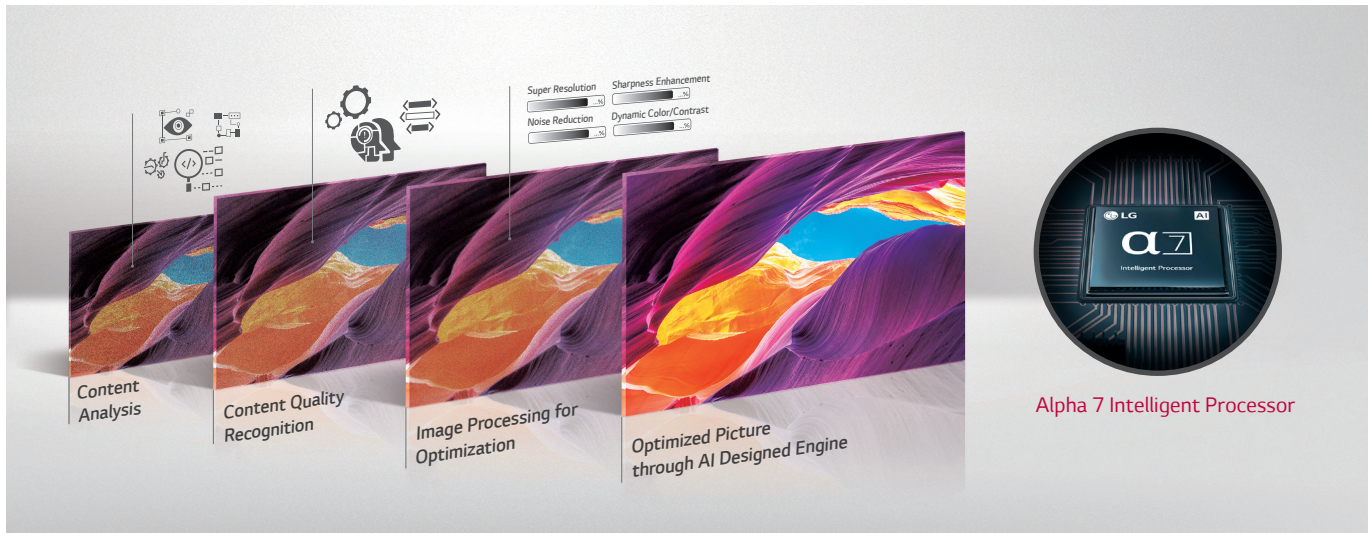## Cable-less LED Assembly Between Modules

The LSAA series is the innovative LED signage applying the wireless transmission technology. 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 LSAA series easier to be installed than ever before.

Block Assembly Design

No Additional Signal Cables

No Additional Power Cables

Wireless Data Transfer
& Cable-less Power Docking

POWERFUL PICTURE QUALITY

Super Resolution   Sharpness Enhancement
Noise Reduction   Dynamic Color/Contrast

Content Analysis

Content Quality Recognition

Image Processing for Optimization

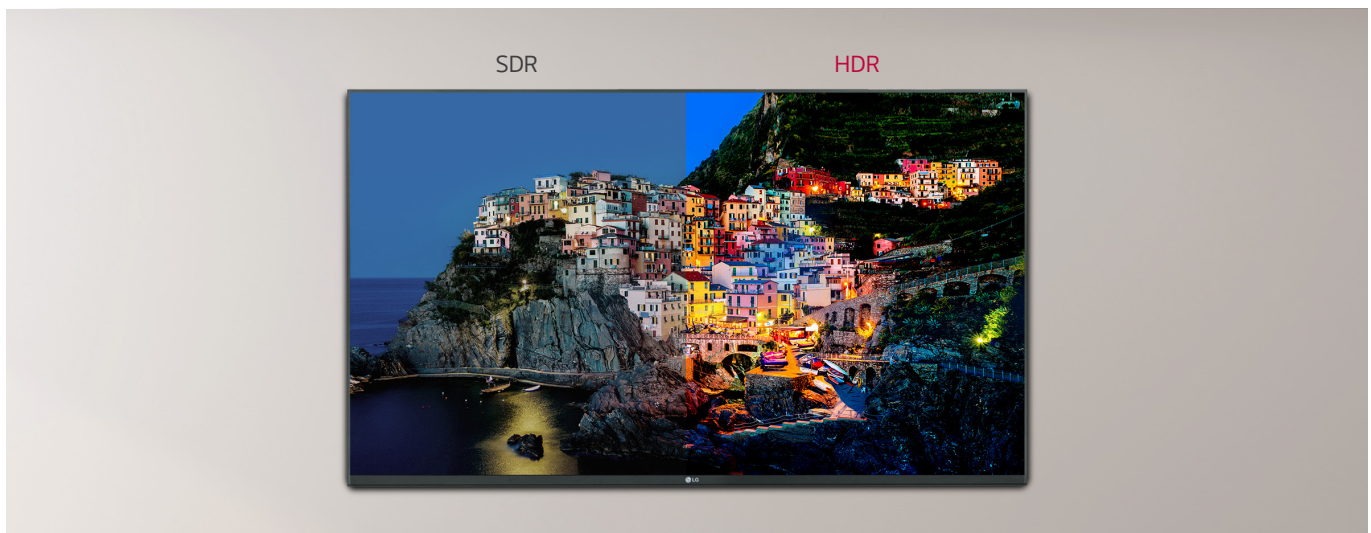Optimized Picture through AI Designed Engine

Alpha 7 Intelligent Processor

Optimized Image Quality with AI-powered Image Processor

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


SDR   HDR

Vivid Color Expression Powered by HDR

With HDR10 and HDR10 Pro* support, content becomes vivid with up to 1.07 billion colors that provide great visual impact. The wider color spectrum and greater contrast ratio allow viewers to fully enjoy live content.

* HDR10 Pro is LG's own HDR solution for processing HDR signal by using enhanced dynamic tone mapping.
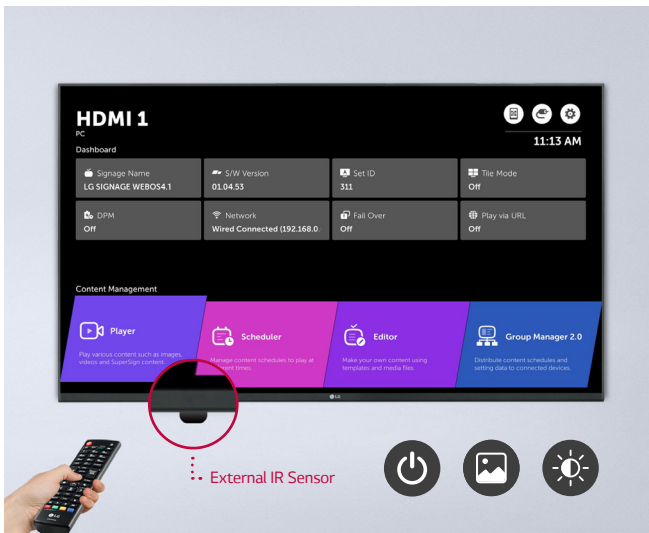
OPTIMUM LED DISPLAY FOR ENTERPRISE USAGE

» **Wall Mount Kit**

» **Floor Stand Kit**
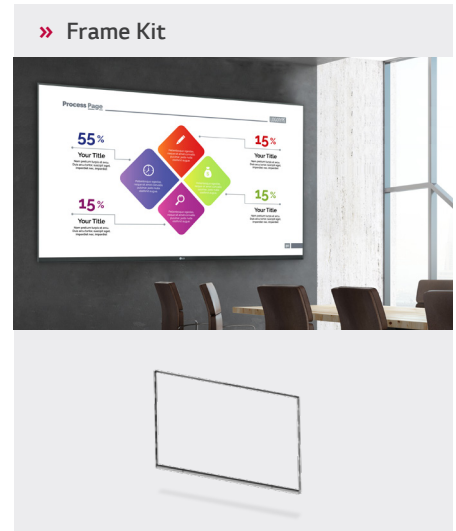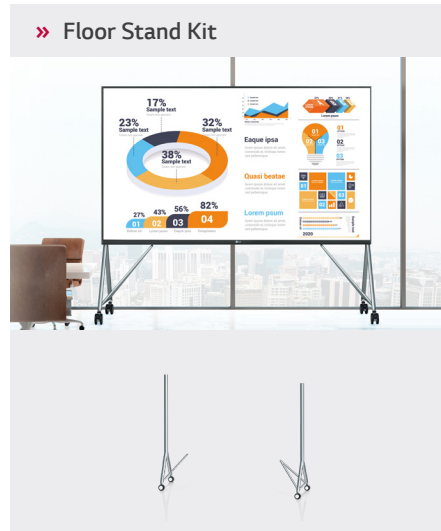
» **Frame Kit**

Dedicated Accessories Available

3 types of accessories are available to easily install the LED screen in 16:9, FHD / UHD resolution.

Compatibility	P0.9 163" UHD	P1.2 108" FHD	P1.5 136" FHD
Wall Mount Kit	✓	✓	✓
Floor Stand Kit			✓
Frame Kit	✓	✓	✓

External IR Sensor

The LSAA series allows users to access the settings, such as Picture Mode, volume, etc. by using a remote control instead of having to connect it to a PC. It uses the same UI as LG webOS signage, so users can easily adapt to it.

* The easy-viewing UI menu is available for over 1,280×720 resolution screens.

## Compatibility with AV Conference Systems

The LSAA series has been certified Crestron Connected® for a high level of compatibility with professional AV controls to achieve integration and network-based control, boosting business management efficiency.

PERFORMANCE AND DURABILITY IN CRITICAL ENVIRONMENTS

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

Emissions Increase

EMC Class B Certified

The LG LSAA 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 Single LED Package	LG LSAA Series 4-in-1 LED Package
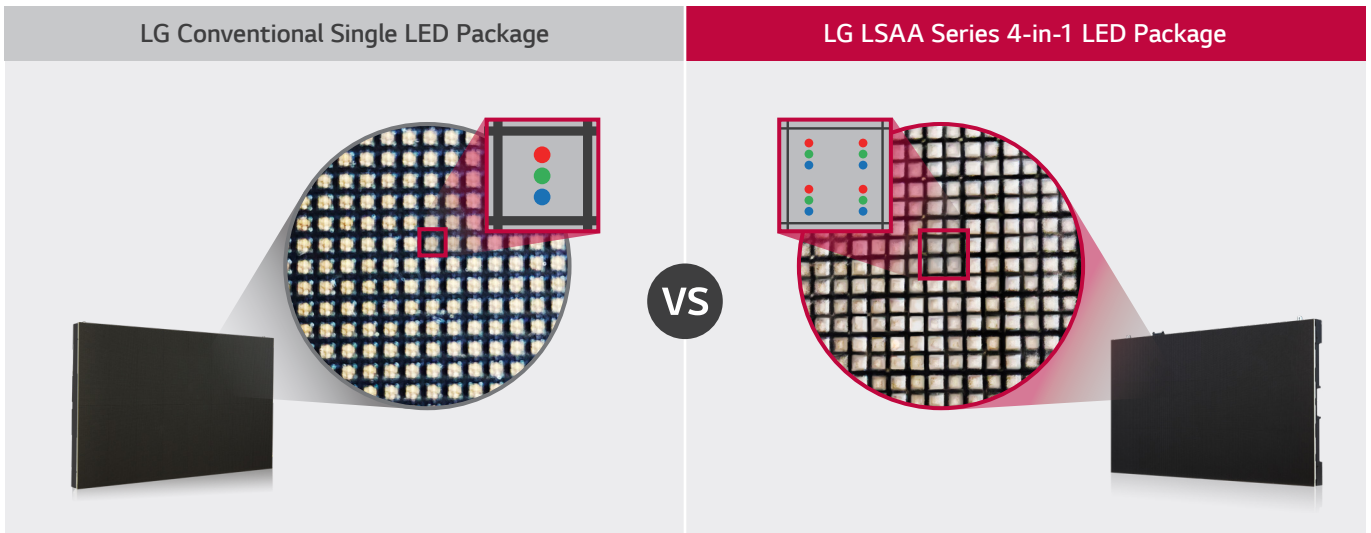
4-in-1 LED Package

Because four RGB pixels are assembled in a single, secure package, there is a reduced exposure to impact damage compared to the single LED package design. This results in enhanced durability in transportation, delivery, installation and operation of the product.

RELIABILITY YOU CAN COUNT ON

Real-time 365 Care Service

Maintenance is easier and faster with the optional Signage365Care* service, a cloud service solution provided by LG service. It remotely manages the status of displays in client workplaces for fault diagnosis and remote-control services, enabling the stable operation of clients' businesses.

* The availability of the "Signage365Care" service differs by region, so please contact the LG sales representative in your region for more details.

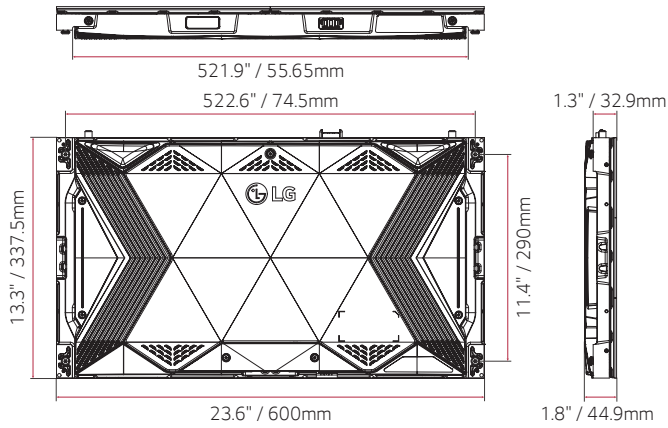| Non Redundant LED signage	LG LSAA Series
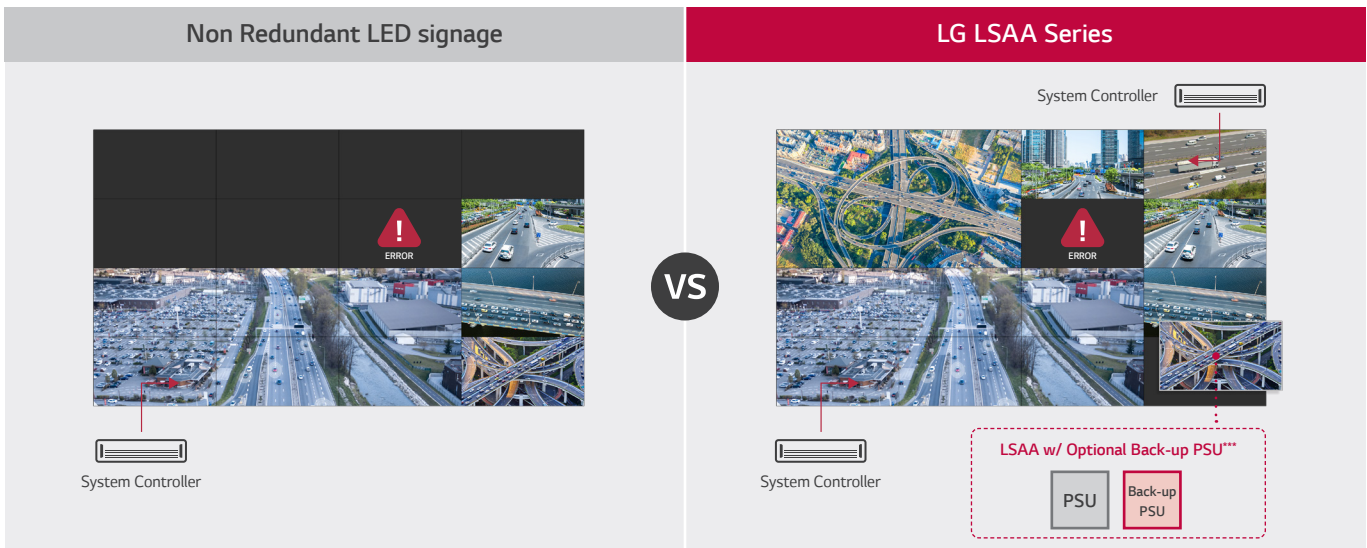
Power/Signal Redundancy Support

The LSAA series is designed to support redundancy of signal and power, providing users with security. With an optional embedded back-up power supply unit, customers can assure the continuous operation of the screen without power failure.
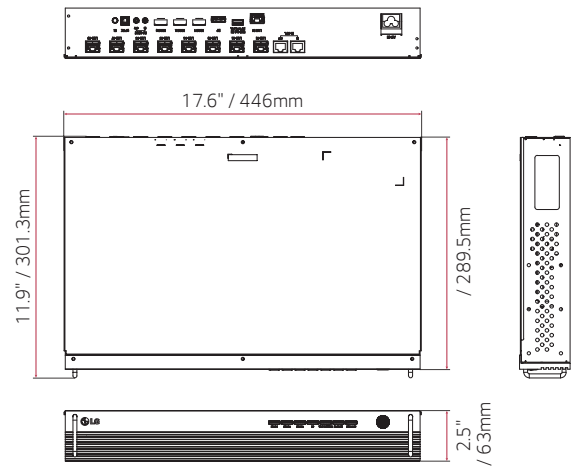
* The "Conventional" shown above refers to LED displays which do not support the power/signal redundancy mode.
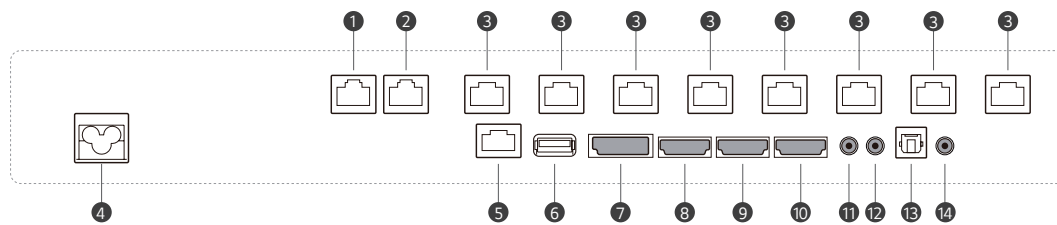
DIMENSIONS

CABINET

521.9" / 55.65mm

522.6" / 74.5mm

1.3" / 32.9mm

13.3" / 337.5mm

11.4" / 290mm

23.6" / 600mm

1.8" / 44.9mm

SYSTEM CONTROLLER

17.6" / 446mm

11.9" / 301.3mm

/ 289.5mm

2.5" / 63mm

CONNECTIVITY

SYSTEM CONTROLLER

① IR-APL IN	⑤ LAN IN	⑨ HDMI 2	⑬ OPTIC
② IR-APL OUT	⑥ USB 2.0 IN	⑩ HDMI 3	⑭ IR
③ Ethernet (5 Gbps)	⑦ DP	⑪ RS-232C IN	
④ AC-IN	⑧ HDMI 1	⑫ RS-232C OUT	

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

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

SPECIFICATIONS

PHYSICAL PARAMETERS	Model	LSAA012MX/SX
	Pixel Configuration	4 in 1 Package
	Pixel Pitch (mm)	1.25 mm
	Module Resolution (W x H)	240 x 90
	Module Dimensions (W x H)	300 x 112.5 mm
	Weight per Module	0.44 lbs / 0.2 kg
	LED Package Manufacturer	Xindeco
	Number of Modules per Unit Case (W x H)	2 x 3
	Unit Case Resolution (W x H)	480 x 270
	Unit Case Dimensions (W x H x D)	23.6 x 13.3 x 1.8 in / 600 x 337.5 x 44.9 mm
	Unit Case Surface Area	2.19 ft^2 / 0.203 m^2
	Weight per Unit Case	15.2 lbs / 6.9 kg
	Weight per Unit Area	7.0 lb/ft^2, 34.1 kg/m^2
	Physical Pixel Density	54,457 pixels/ft^2, 640,000 pixels/m^2
	Flatness of Unit Case	±0.5 mm
	Unit Case material	Die-cast Aluminum
	Service access	Front and Rear
	Lead Type	Gold
OPTICAL SPECIFICATIONS	Brightness (After Calibration)	1,200 nits (Peak) 600 nits (Typ)
	Color Temperature	6,500K / 2,800~10,000K, (Adjustable by LED Assistant on PC)
	Visual Viewing Angle (Horizontal)	160
	Visual Viewing Angle (Vertical)	140
	Brightness Uniformity	97%
	Color Uniformity	±0.015Cx,Cy
	Contrast Ratio	Peak. 9,000:1 / Typ. 5,000:1
	Processing Depth (bit)	20 (HDR10, HDR10 Pro)
ELECTRICAL SPECIFICATIONS	Max Power Consumption per Unit	106.7 W
	Average Power Consumption per Unit	64.02 W
	Max Power Consumption per Unit Area	526.9 W/
	Max Power Consumption per Unit	364 BTU
	Average Power Consumption per Unit	218.4 BTU
	Max Power Consumption per Unit Area	1,798 BTU
	Power Supply	100 to 240 V
	Frame Rate	50 / 60 Hz
	Refresh Rate	3840 Hz
OPERATION SPECIFICATIONS	Lifetime (Half brightness)	100000 Hours
	Operating Temperature	'32 to 104 °F / 0 to +40 ℃
	Operating Humidity	10-80% RH
	IP rating Front	IP20
	IP rating Rear	IP20
CERTIFICATIONS & STANDARDS	IEC 60950-1 (Safety)	Yes
	FCC Part 15 Class B (EMC)	Yes
	RoHS (Environmental)	Yes
LED CONTROLLER	Controller Model	CSAA-012X
	Loading Capacity	3840 x 2160 @ 60HZ
	Output Resolution	8.2944 Million Pixels
	Input Interface	HDMI 2.0, DP 1.2
	Loop	No
	Output Ethernet	8-channel
	Output optical	No
	Control Interface	IR(1), RS232C In(1)/Out(1), Ethernet(1), USB(1)"
	Cascading	No
	Sensor interface	Ambient Light Sensor
	HDCP	HDCP 2.2
	Brightness Adjustment	Yes
	Chroma Adjustment	Yes
	Improved Grayscale at Low Brightness	Yes
	Scaling	Yes
	HDR	HDR 10 PRO
	Content Management	SuperSign CMS
	Signage365 Care	Yes
	webOS	v4.0
	Configuration Software	LED Assistant
	Custom EDID Support	No
	Signal Redundancy	Yes
	Dimensions (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
	Product Compatibility	LSAA012MX/SX

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