

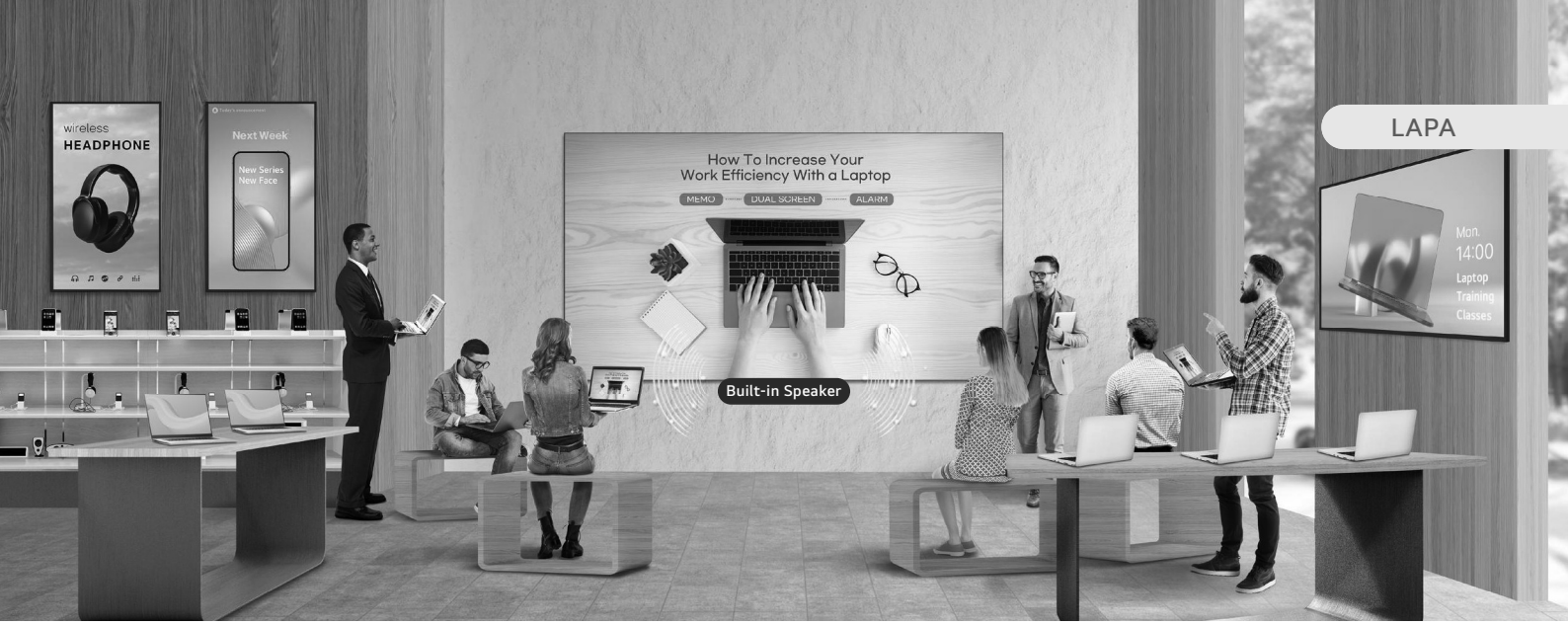
* All images in this datasheet are for illustrative purposes only and may differ from the actual product.
** Stand accessories differ by models, and need to be purchased separately.

LG LED All-in-One LAPA Series

All-in-One LED Display with webOS

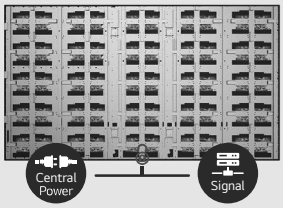
- All-in-One LED Screen
- Built-in Speaker
- Dedicated Accessories
- Easy Installation Quick Maintenance

LAPA	
Inch	163" / 136"
Pixel Pitch	1.88 mm / 1.56 mm
Brightness	500 nit (Max., after calibration)
Screen Resolution	1,920 × 1,080
Service access	Front
Speaker	Built-in
Controller	Embedded (webOS)

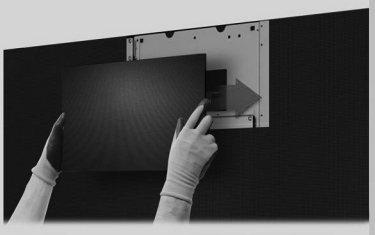


All-in-One LED Screen with Built-in Speaker

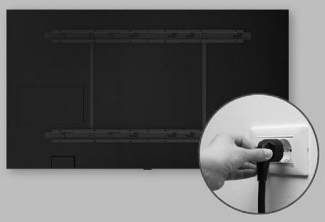
Experience the convenience of LG's LED All-in-One LAPA series, featuring stunning 163/136-inch screen. This all-in-one package includes an embedded controller and built-in speaker, making setup a breeze. Dispelling the notion that LED displays are difficult and complex to install, it requires no controller connections or module configuration.



❶ Secure cabinets after connecting main power/signals.



❷ Attach LED modules to cabinets.



❸ Connect the power cable.

* The image is illustrated as an example of LAPA136 model.

Easy Installation

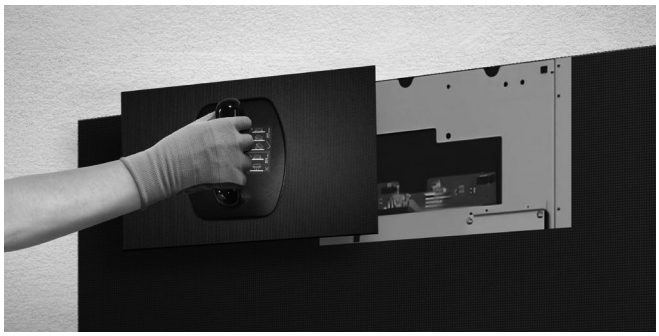
The installation process for the LED All-in-One is straightforward. First, secure the cabinets (three for the LAPA series). Next, attach each LED display module to the cabinets, and finally, plug in the power cable. This simple installation saves time and labor, allowing users to easily manage the LED screen.

* Fixing screws or installing wall mount/accessories is needed additionally.



Simple Power Connection

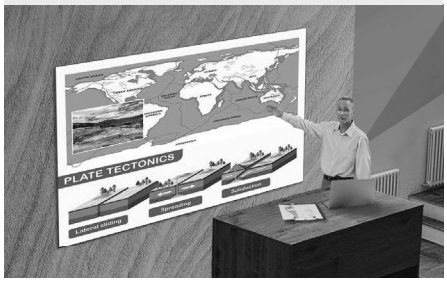
The LAPA series operates with a double AC cable, simplifying power connections and ensuring a clean, tidy installation.



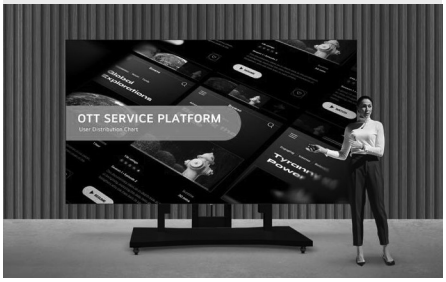
Quick Maintenance

In case of a failure related to the LED module or the system board, it can be serviced from the front. The LED module can be easily detached using the provided magnetic tool and replaced quickly without cabling.

Landscape Wall Mount



Dedicated Stand



Multi-screens Setup



Versatile Installation with Dedicated Accessories

The product is offered with the necessary component including the landscape wall mount and tools for installation. For added convenience, a dedicated stand is available as an option, allowing you to easily position the screen based on your installation needs. Additionally, the LAPA series can be seamlessly arranged side by side in a 1×N configuration, accommodating up to 10 screens to suit your specific installation site and purpose.

* Stand accessories vary by model and must be purchased separately.



Real-time LG ConnectedCare

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

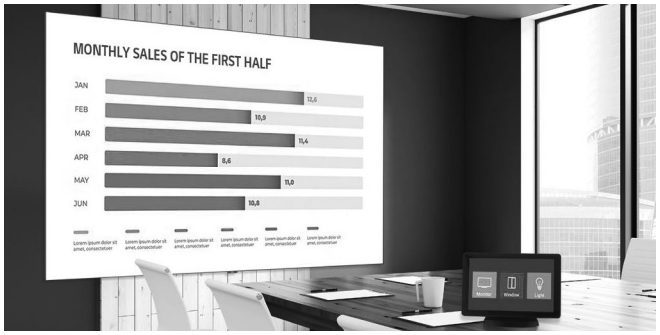
* The availability of LG ConnectedCare differs by region.



High Performance SoC with webOS

Built-in Quad Core SoC can execute several tasks at once while providing smooth content playback without the need for a media player. Also, LG webOS smart signage platform offers an intuitive GUI and simple app development tools.

* The webOS Signage Developer site (https://webossignage.developer.lge.com) provides SDK tools and documentation for creating apps on LG Digital Signage. This is only open to partners.



Compatible with AV Control Systems

The LAPA series supports Crestron Connected®* for high compatibility with professional AV controls to achieve seamless integration and automated control**, boosting business management efficiency.

* Initial setting from display is required for Crestron Connected® compatibility.
** Network based control
*** Crestron Connected® needs to be purchased separately.



Office Meeting Mode

With Office Meeting Mode, easily configure meeting room details such as room number. It also includes convenient features like automatic input switching, a presentation timer, and adjustable settings such as auto-brightness and picture mode.

* Users can enable Office Meeting Mode at EZ Setting menu of the Signage.



Wireless Screen Sharing

The LAPA series is compatible with LG One:Quick Share*, a wireless screen sharing solution. It helps to simply share one's personal PC screen to the display with its button and embedded Wi-Fi**, and it can also adjust the basic setting values (volume, picture mode, auto bright, etc.) of the connected display without a remote control.

* LG One:Quick Share needs to be purchased separately.
** Users need to set up SoftAP enabled at Network Menu of the Signage.



Flame Spread Protection

The LAPA series has satisfied the standards for the BS476 Part7 Class 1 rating, confirming its compliance with flame spread standards. Its excellent fire resistance can help improve safety at the installation site.

* The LAPA series was evaluated for spread of flame at 1.5 min and final spread of flame under BS476 Part7:1997 (R2016) procedures, verified by TUV SUD Certification and Testing (China) Co., Ltd. in December 2024, and satisfied Class 1 (165+25mm) standard requirements. (Technical Report No. 68.189.24.0712.01).
** Actual results or performance may vary depending on the use environment.



5,000m Operational Capability

The LAPA series is designed to function at altitudes of up to 5,000 meters. To support this capability, the original power supply unit (PSU) on the power board was replaced with a new PSU optimized for high-altitude performance.

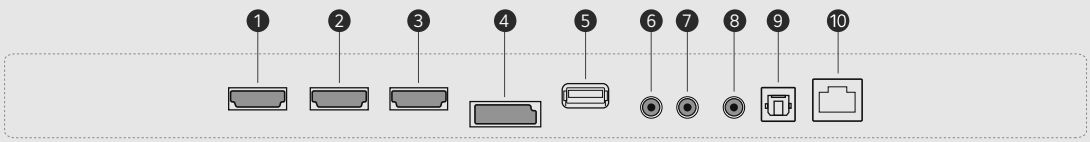
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SPECIFICATIONS

		LAPA163-GF	LAPA136-GF
Physical Parameters	Pitch Name	P1.88	P1.56
	Pixel Configuration	Single SMD	Single SMD
	Pixel Pitch (mm)	1.88	1.56
	Module Resolution (W × H)	160 × 90	192 × 108
	Module Dimensions (W × H, mm)	300 × 168.75	300 × 168.75
	No. of Modules per Screen (W × H)	12 × 12 (Total 144)	10 × 10 (Total 100)
	Screen Resolution (W × H)	1,920 × 1,080	1,920 × 1,080
	Screen Dimensions (W × H × D, mm)	3,605 × 2,030 × 29.95 (Thickest 59.5)	3,005 × 1,692.5 × 29.95 (Thickest 59.5)
	Screen Surface Area (m^2)	7.29	5.06
	Screen Weight (kg)	155	108.5
	Physical Pixel Density (pixels/m^2)	284,444	409,600
	Flatness of Cabinet (mm)	±0.15 (TBD)	±0.15
	Cabinet Material	Aluminum	Aluminum
	Service Access	Front	Front
Optical Specifications	Brightness (After Calibration, nit)	500 (Typ.)	500 (Typ.)
	Color Temperature (K)	3,200-9,300	3,200-9,300
	Visual Viewing Angle (H × V)	150 × 150	150 × 150
	Brightness Uniformity	98%	98%
	Color Uniformity	±0.015 Cx, Cy	±0.015 Cx, Cy
	Contrast Ratio	3,000 : 1	3,000 : 1
	Processing Depth (bit)	16	16 (HDR10, HDR10 Pro)
Electrical Specifications	Power Consumption (W/Screen, Max.)	2,000	1,300
	Power Consumption (W/Screen, Avg.)	750	650
	Power Consumption (W/m^2, Max.)	275	260
	Heat Dissipation (BTU/h/Screen, Max.)	6,825	4,436
	Heat Dissipation (BTU/h/Screen, Avg.)	2,560	2,218
	Heat Dissipation (BTU/h/m^2, Max.)	939	888
	Power Supply (V)	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60
	Refresh Rate (Hz)	3,840	3,840
Operation Specifications	Lifetime (Half Brightness)	100,000	100,000
	Operating Temperature (°C)	0 to +40	0 to +40
	Operating Humidity	10-90% RH	10-90% RH
	IP Rating (Front / Rear)	IP30 / IP30	IP30 / IP30
Standard	Certification	CE, FCC, ETL, CB, CE-RED, EMC Class A	
	Certification (Fire Protection)	BS476 Part7 Class 1, EN13501-1 (Class B-s1, d0)	
Speaker		Built-in (9 W + 9 W)	
Environment		RoHS, REACH	
Controller		Embedded (webOS)	
I/O Port		HDMI (3), DP (1), USB, LAN, RS-232C In/Out, IR, Digital Audio Out (1, SPDIF Optical)	
Wi-Fi / Bluetooth		Yes / No	
etc.		IR Remote (In-box), Side by Side : Yes (1 × N), HDCP 2.2, Crestron Connected	

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

CONNECTIVITY



1 HDMI 1
2 HDMI 2
3 HDMI 3
4 DP
5 USB 2.0
6 RS-232C IN
7 RS-232C OUT
8 IR & LIGHT SENSOR
9 OPTICAL DIGITAL AUDIO OUT
10 LAN

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