



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

LG MAGNIT All-in-One LAAB136

All-in-One Micro LED Display



All-in-One
LED Screen



Achieving
Deep Black



Detailed Color



Easy Installation

LAAB136

Pixel Pitch	0.78 mm
Brightness	500 (Typ.) / 1,600 (Peak) nits (After Calibration)
Screen Resolution	3,840 × 2,160
Frame Rate	100 / 120 Hz
IP Rating Front / Rear	IP50 / IP30
Certification	EMC Class B, BS476 Part 7 Class 1



Black Immersion, Enlivened Details

LG MAGNIT's revolutionary chip transfer technology, full black coating, and advanced surface treatment work in harmony to deliver exceptional black levels, vivid colors, and deep contrast. This synergy creates an immersive visual experience where even the subtlest shadow details emerge from the darkness, revealing the full depth of every scene.



Accurate Colors as Intended

Through meticulous LED chip selection and the narrow wavelength of these chips, LG MAGNIT delivers uniform and pure color expression across the entire screen. The gamut transfer technology also contributes to great color fidelity, making it ideal for environments that demand precise and lifelike visuals.



TÜV-Certified Wide-Angle Color Consistency

LG MAGNIT offers outstanding color consistency, delivering rich and accurate hues across a wide viewing angle range. Whether viewed head-on or from the side, the display maintains uniform color performance, allowing viewers across a large space to experience consistent image quality. This wide-angle color consistency has been verified through TÜV certification, supporting LG MAGNIT's reliable performance in professional display environments.

* The LAAB136BXNA passed a TÜV Rheinland-approved test following "2 PfG Q2865 / 05.23 Evaluation of Color Consistency Wide Viewing Angle". This covers aspects like color consistency (left/right), color consistency (top/bottom), color direction, viewing angle segmentation (left/right), color consistency (color gamut). (Test report No. KR26MBH0 001)



TÜV-Certified Clarity in Low-Grayscale Images

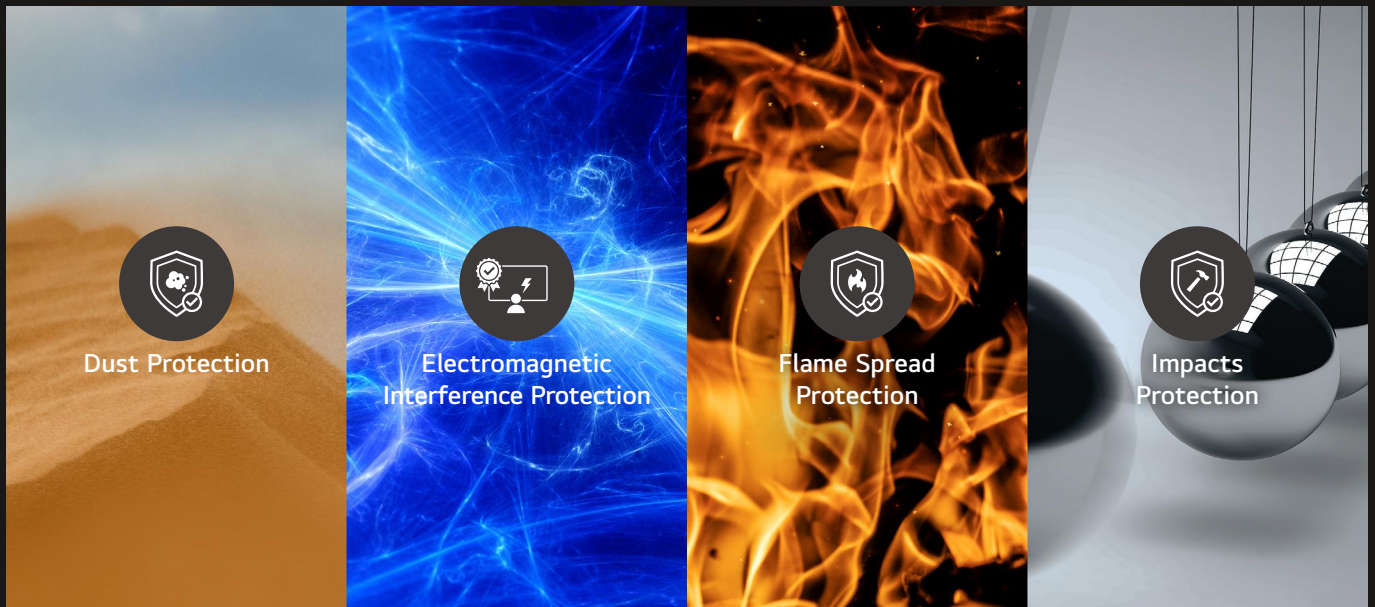
LG MAGNIT delivers clear and detailed image reproduction, particularly in darker scenes. Fine distinctions within low-grayscale images are expressed with clarity and precision, helping ensure accurate representation of subtle details. This low-grayscale image clarity has been verified through TÜV certification, supporting reliable performance in professional display environments.

* The LAAB136BXNA passed a TÜV Rheinland-approved test following "2 PfG Q2893 / 05.24 Evaluation of Low Grayscale Image Clarity". This covers aspects like Pixel loss ratio, white balance, gamma difference. (Test report No. KR26HWU4 001)



Front-Side Screen Level Adjustment

With a magnet-based special tool, LG MAGNIT enables front-side screen-level adjustment, offering enhanced flexibility and precise alignment during installation.



Care Less with Sturdy Design

LG MAGNIT has undergone safety-related testing to address various risk factors, including dust, electro-magnetic interference, flame spread, and physical impacts. This is particularly relevant for installations in public spaces, where considerations around safety and risk management are essential.

* Related performance characteristics are supported by third-party test reports conducted under controlled test conditions. For detailed test results and conditions, please contact your LG sales representative.



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

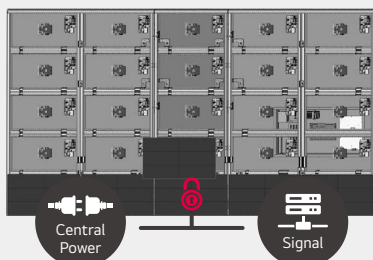
The LAAB136 is a 136-inch large screen which is offered as an all-in-one package including an embedded controller and built-in speaker. Eliminating the prejudice that LED displays are difficult and complex to install, it doesn't require controller connections or module configuration. After a simple installation process, all you need to do is to turn on the screen with a remote control like home TV.



High Performance with webOS

Built-in Quad Core SoC (System on Chip) can execute several tasks at once for providing smooth content playback. Also, LG webOS Smart Platform enhances user convenience with intuitive GUI and provides to SI or/and developers simple app development tools* such as SDK (Software Development Kit), SCAP, sample applications.

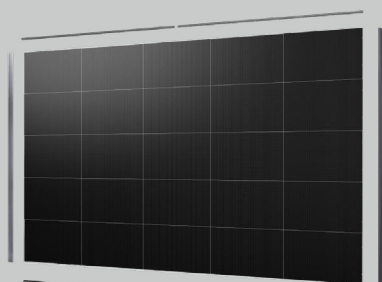
* The webOS Signage Developer site (<http://webossignage.developer.lge.com>) provides SDK tools and documentation for creating apps on LG Digital Signage. This is only open to partners.



① Secure cabinets after connecting main power/signals



② Assemble LED cabinets to rear frame



③ Assemble bezels



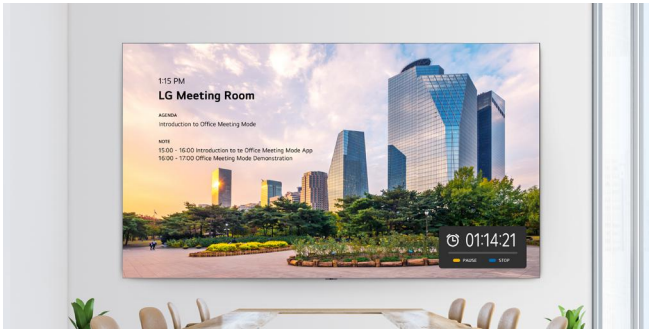
④ Connect AC power

Easy Installation

The installation process for the LED All-in-One is straightforward. First, secure the cabinets. 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.

* The image is for illustrative purposes only and may differ from the actual product.

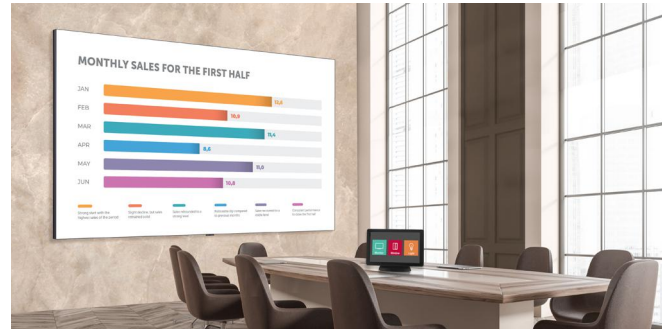
** Fixing screws or installing wall mount/accessories is needed additionally.



Office Meeting Mode

With Office Meeting Mode, easily configure meeting room details like the room number and current time. 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.



Compatible with AV Control Systems

The LAAB136 supports Crestron Connected®* for high compatibility with professional AV controls to achieve seamless integration and automated control, boosting business management efficiency.

* Crestron Connected® requires initial display configuration and a separately purchased license.

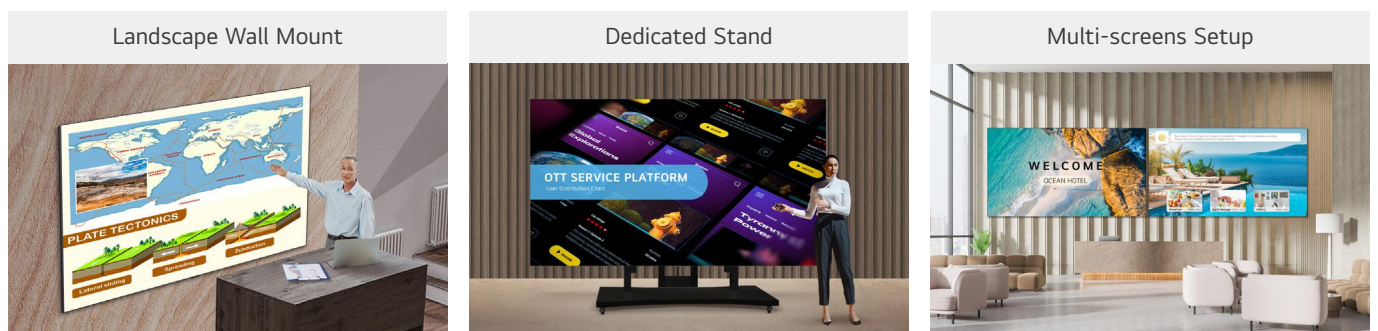
** Supports network-based control.



Magic Remote for Easy of Use

With the LG Magic Remote, you can select and run the menu of the signage just like using a mouse and its cursor can be used as a laser pointer. In addition, through the newly added 'FREEZE' button on the remote control, users can temporarily freeze the screen while switching contents on the PC, so that users are able to have uninterrupted meetings without exposing its switching process.

* The FREEZE function is only available when the LAAB136 is connected to an external input signal.



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 LAAB136 can be seamlessly arranged side by side in a N × 1 configuration to suit your specific installation site and purpose.

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

SPECIFICATIONS

LAAB136BXNA		
Physical Parameters	Application Type	All-in-One
	Pitch Name	P0.78
	Pixel Configuration	Micro
	Pixel Pitch (mm)	0.78
	Module Resolution	384 × 144
	Module Dimensions (W × H, mm)	300 × 112.5
	No. of Modules per Screen (W × H)	10 × 15 (Total 150)
	Screen Resolution (W × H)	3,840 × 2,160
	Screen Dimensions (W × H × D, mm, Including Bezel)	3,005 × 1,692.5 × 39.4 (Thickest 68.9)
	Screen Surface Area (m²)	5.06
	Weight of the Screen (kg)	151.5
	Physical Pixel Density (pixels/m²)	1,638,400
	Flatness of Cabinet (mm)	±0.2
	Cabinet Material	Aluminum
	Service Access	Front
Optical Specifications	Brightness (After Calibration, nit)	Typ. 500 / Peak 1,600
	Color Temperature (K)	3,200-9,300
	Visual Viewing Angle (H × V)	160 × 160
	Brightness Uniformity	0.95
	Color Uniformity	±0.015 Cx,Cy
	Contrast Ratio	40,000 : 1 @ 10lux
	Processing Depth (bit)	20 (HDR10, HDR10 Pro)
Electrical Specifications	Power Consumption (W/Screen, Max.)	1,500
	Power Consumption (W/Screen, Avg.)	900
	Power Consumption (W/m², Max.)	296
	Heat Dissipation (BTU/h/Screen, Max.)	5,118
	Heat Dissipation (BTU/h/Screen, Avg.)	3,071
	Heat Dissipation (BTU/h/m², Max.)	1,011
	Power Supply (V)	100 to 240
	Frame Rate (Hz)	100 / 120
	Refresh Rate (Hz)	3,840
Operation Specifications	LED Lifetime (Half Brightness)	150,000
	Operating Temperature (°C)	0 to +40
	Operating Humidity	10-80% RH
	IP Rating (Front / Rear)	IP50 / IP30
Standard	Certification	Safety 62368-1 & 60950-1, EMC Class B
	Certification (Fire Protection)	BS476 Part 7 Class 1
Speaker		Built-in (10 W + 10 W)
Environment		RoHS
Controller		Embedded (webOS 8.0)
I/O Port		HDMI (3), DP, USB, LAN, RS-232C In/Out, IR, Digital Audio Out (SPDIF Optical)
Wi-Fi / Bluetooth		Yes / Yes
etc.		IR Remote (In-box), Magic 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.
* Low latency not supported

CONNECTIVITY

