LG | Business Solutions

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LG MAGNIT LBAG Series

Micro LED for Virtual Production

Power UI/UX with Megapixel HELIOS LED Processing Platform

Easy Installation and Maintenance

Curve Effect Available

Stacking & Hanging System Available
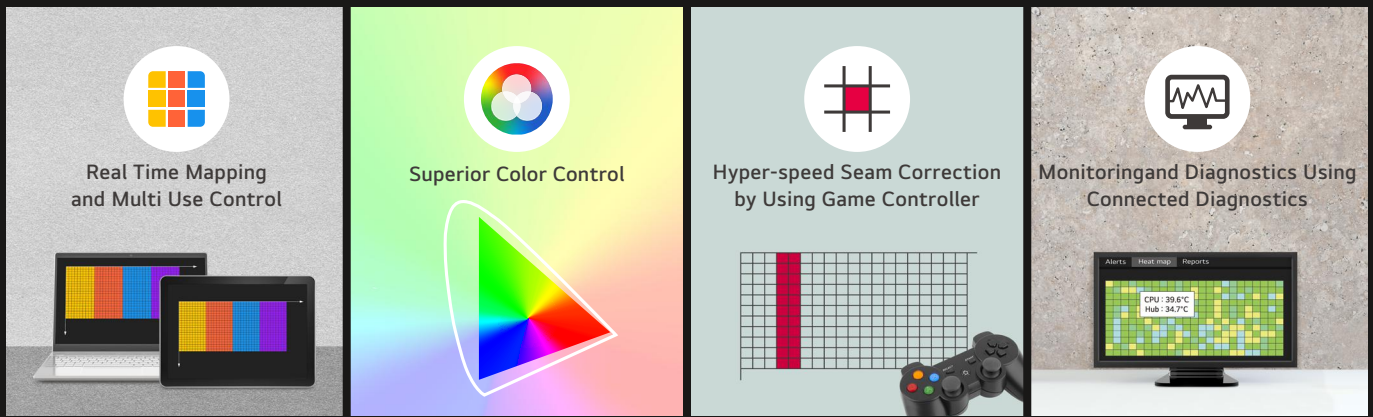
Black Immersion

Accurate Colors

Wide Viewing Angle

Broadcast Quality Available

LBAG Series	
Pixel Pitch	1.56 mm
Brightness	1,500 nit (Max.)
Weight per Cabinet	16.0 kg
Service Access	Rear
Certification	Safety 62368-1, EMC Class A

| Real Time Mapping and Multi Use Control | Superior Color Control | Hyper-speed Seam Correction by Using Game Controller | Monitoringand Diagnostics Using Connected Diagnostics |

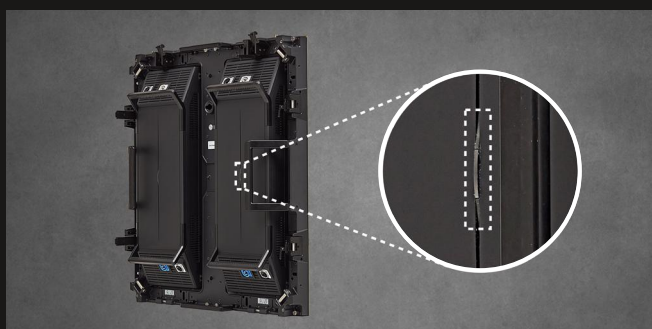## Powerful UI/UX with Megapixel HELIOS LED Processing Platform

With the the Megapixel HELIOS LED Processing Platform, LBAG now has the capability to utilize powerful UX and UI functionalities. Real-Time Mapping and Multi-User Control, Superior Color Control, Hyper-Speed Seam Correction using a game controller, and Monitoring and Diagnostics through connected diagnostics are all available.

* MVR Controller needs to be purchased separately

Position Guide Pin

LDM Holder & Screwless Design

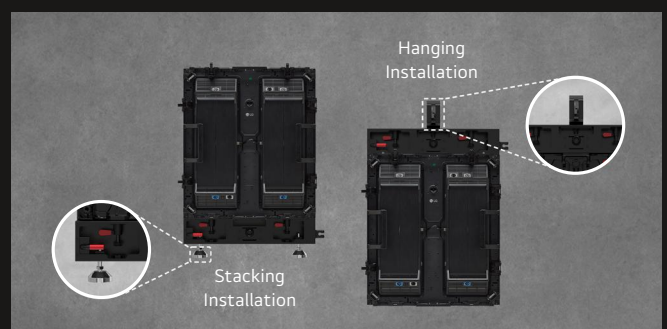Headless Bolt

Quick Lock & One Hand Control

Easy Installation & Maintenance

The module can be easily removed with even bare hands, as it features rear service access that does not require any tools. Additionally, the positioning pins and magnets help perform easy panel adjustments, resulting in a smooth screen assembly.

Hanging Installation

Stacking Installation

LED Indicator to Check Status

LED Indicator provides convenience to users to check LBAG status with various meanings of colors.

Stacking & Hanging System Available

It can be installed by stacking or hanging, using the optional accessories such as single or double beams for customization to the studio environment.

* Installation accessories need to be purchased separately

Curve Effect Available

The angle adapter system and fast lock are designed to fascilitate easy installation for curved display. The system allows for adjustment of up to 10 degrees in concave area while providing a secure mechanical connection.
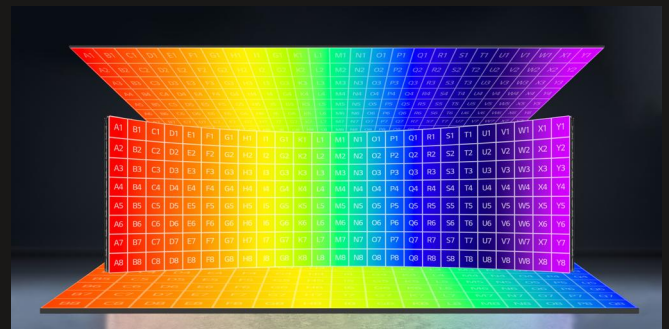

Broadcast Quality Available

With HDR capability and low latency video processing, LBAG supports broadcast-quality, providing accurate and smooth playback.

Black Immersion, Enlivened Details

By removing a package surrounding R, G, B LED chips and applying LG's own Full Black Coating technology, the LBAG series surprisingly delivers much deeper black than the conventional package LED signage*. This not only enhances color vividness, but also makes the details which were hidden in the shadows appear, providing audiences a sense of immersion.

* Based on comparison against LG's conventional LED Signage

Accurate Colors as Intended

By carefully selecting an LED chip which is a key factor to determine color purity, its narrowed wavelength allows LBAG series to show uniform colors across the screen. Furthermore, the enhanced Gamut Transfer technology supports it to describe colors close to the original color, which is essential for places where exact color representation is demanding.

Wide Color Viewing Angle

Thanks to the structure of LBAG series, it minimizes color distortion according to the viewing angle. In other words, the original color can be appreciated even from the side angles, captivating various pedestrians even if it is installed in a large public places.

SPECIFICATIONS

		LBAG015-G1
	Pitch Name	P1.5
Physical Parameters	Pixel Configuration	COB
	Pixel Pitch (mm)	1.56
	Module Resolution (W × H)	96 × 108
	Module Dimensions (W × H, mm)	150 × 168.75
	Weight per Module (kg)	0.15
	No. of Modules per Cabinet (W × H)	4 × 4
	Cabinet Resolution (W × H)	384 × 432
	Cabinet Dimensions (W × H × D, mm)	600 × 675 × 125
	Cabinet Surface Area (m²)	0.405
	Weight per Cabinet (kg/Cabinet)	16.0
	Weight per Square Meter (kg/m²)	39.5
	Physical Pixel Density (pixels/m²)	409,600
	Flatness of Cabinet (mm)	±0.5
	Cabinet material	Die Casting Magnesium Alloy
	Service Access	Rear
Optical Specifications	Max. Brightness (After Calibration, nit)	1,500 (Max.)
	Color Temperature (K)	2,000-10,000 / Default 6,504
	Visual Viewing Angle (H × V)	160 × 160
	Brightness Uniformity	≥ 95%
	Color Uniformity	±0.02 Cx, Cy
	Contrast Ratio	100,000 : 1 (Max.)
	Processing Depth (bit)	22 (Internal Processing (HDR10))
Electrical Specifications	Power Consumption (W/Cabinet, Max.)	220
	Power Consumption (W/Cabinet, Avg.)	175
	Power Consumption (W/m², Max.)	543
	Heat Dissipation (BTU/h/Cabinet, Max.)	751
	Heat Dissipation (BTU/h/Cabinet, Avg.)	597
	Heat Dissipation (BTU/h/m², Max.)	1,853
	Power Supply (V)	100 to 240
	Frame Rate (Hz)	23.98 / 24 / 25 / 29.97 / 30 / 48 / 50 / 59.94 / 60 / 72 / 90 / 96 / 100 / 120
	Refresh Rate (Hz)	7,680
Operation Specifications	Lifetime (Half Brightness)	100,000
	Operating Temperature (°C)	0 to +40
	Operating Humidity	10-80% RH
	IP Rating Front / Rear	N/A
Standard	Certification	IEC 62368-1, EMC Class A
Environment		RoHS/REACH
Controller		MVR HELIOS
90 Degree Corner Cut		No

Megapixel HELIOS LED Processing Platform (Controller)

	Cabinet	LSAP, LBAG
Max Output Range	Loading Capacity	8,192 × 4,320 @ 60 Hz
	Output Resolution	35.3 Million Pixels
Input		HDMI 2.0, HDCP 2.2, DP 1.4 (HBR3), SDI (4 × 12G-SDI), OPS (ST2110)
Output		Optic (To LED Screen) (8 × 10G)
Control	LAN	Yes
	GenLock	Yes (In)
Video Processing		Brightness Adjustment, Chroma Adjustment, Improved Grayscale at Low Brightness, Scaling, HDR (PQ, HLG, Custom), EDID Custom
Application		SuperSign CMS (Cross-platform Web Interface), webOS API, Configuration SW (Cross-platform Web Interface)
Mechanical	Size (W × H × D, mm)	481.5 × 44.2 × 393
	Weight (kg)	5.7

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