



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

LG MAGNIT Studio Series

Micro LED for Virtual Production



Megapixel VR
Helios Controller



Easy Installation
and Maintenance



Curve Effect Available



Stacking & Hanging
System Available



True Black with
100,000:1 Contrast Ratio



HDR10 Color



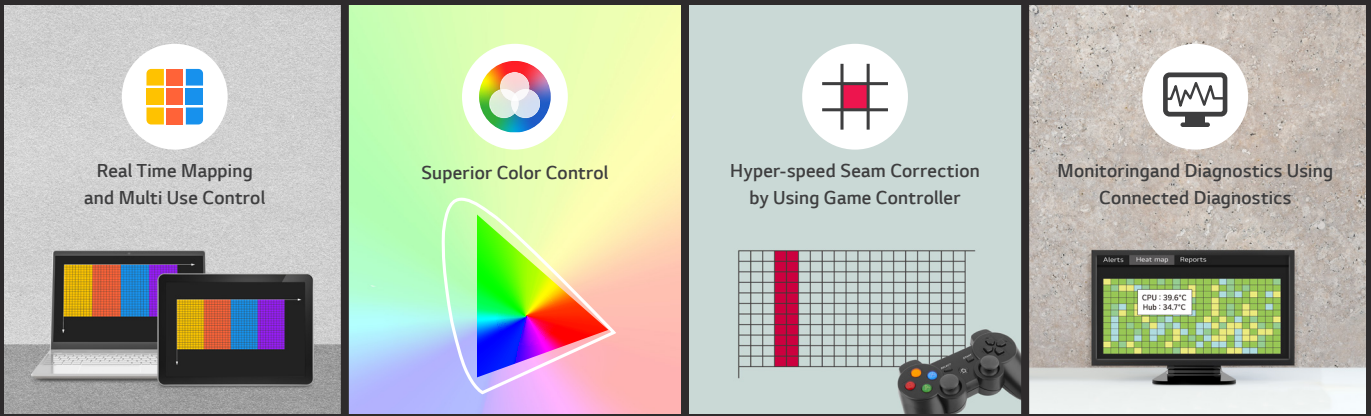
Wide Viewing Angle



22 bit Processing Depth

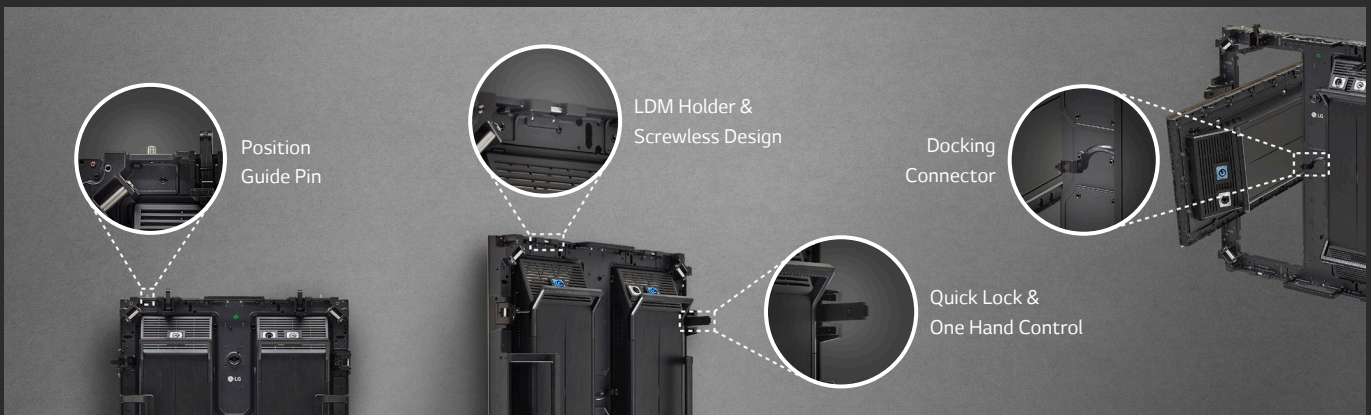
LBAG MAGNIT Studio Series

Pixel Pitch	1.56 mm
Brightness	1,500 nits (Max.)
Weight per Cabinet	35.3 lbs. / 16.0 kg
Service Access	Rear
Certification	Safety 62368-1, EMC Class A



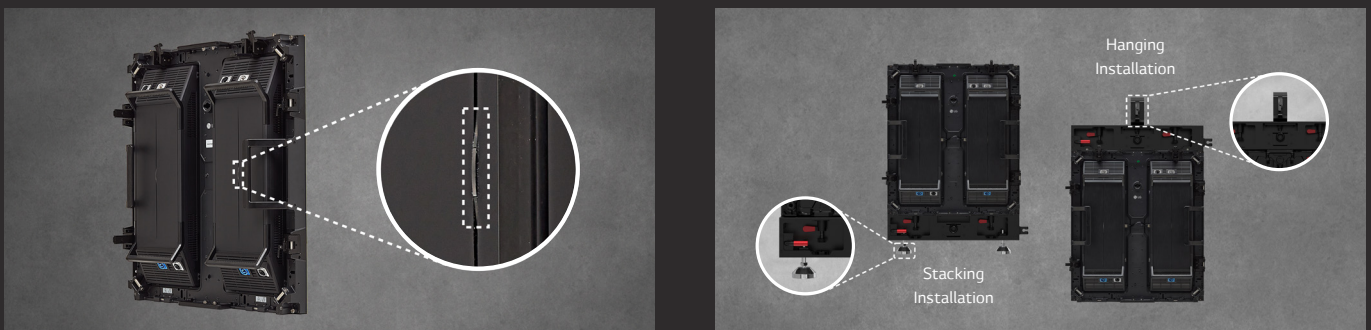
Powerful UI/UX with Megapixel VR Helios Controller

With the MVR controller, MAGNIT Studio Series 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.



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.



LED Indicator to Check Status

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

Stacking & Hanging System Available

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

* Optional stacking/hanging systems available for purchase separately.



Curve Effect Available

The integrated angle system and fast lock are designed to facilitate easy installation for a curved-effect display. The system allows for adjustment of up to 10 degrees concave, while providing a secure mechanical connection.



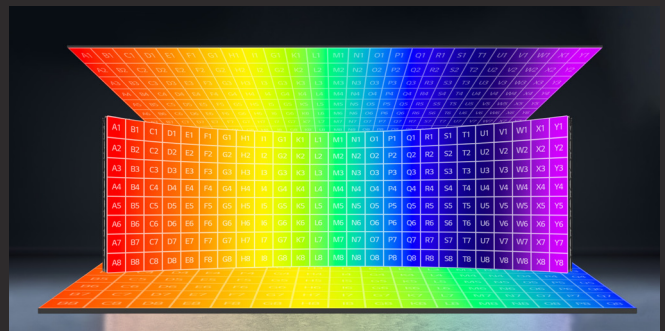
HDR10 Capability

With HDR and low latency video processing, the MAGNIT Studio Series supports high quality video with accurate and smooth playback.



True Black with Ultra-high Contrast

By removing the package surrounding the RGB Micro LED chips and applying LG's own Full Black Coating technology, the LBAG series delivers true black that is enhanced by its ultra-high 100,000:1 contrast ratio. This not only enhances color vividness, but also makes the details which were hidden in the shadows appear, providing audiences a sense of immersion.



View Colors as Intended

MAGNIT's carefully-selected micro LED chip has a narrowed wavelength that allows it 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 the MAGNIT Studio Series microLEDs, off-angle color shift is minimized both for talent and for the camera.

SPECIFICATIONS

LBAG015-G1

	Pitch Name	P1.5
Physical Parameters	Pixel Configuration	COB
	Pixel Pitch (mm)	1.56
	Module Resolution (W x H)	96 x 108
	Module Dimensions (W x H, in / mm)	5.9 x 6.6 / 150 x 168.75
	Weight per Module (lb / kg)	0.3 / 0.15
	No. of Modules per Cabinet (W x H)	4 x 4
	Cabinet Resolution (W x H)	384 x 432
	Cabinet Dimensions (W x H x D, in. / mm)	23.6 x 26.6 x 4.9 / 600 x 675 x 125
	Cabinet Surface Area (ft ² / m ²)	4.4 / 0.405
	Weight per Cabinet (kg/Cabinet)	16.0
	Weight per Square Meter (lb/ft ² / kg/m ²)	7.9 / 39.5
	Physical Pixel Density (pixels/m ²)	409,600
	Flatness of Cabinet (mm)	±0.5
	Cabinet material	Die Casting Magnesium Alloy
Service Access	Rear	
Optical Specifications	Max. Brightness (After Calibration, nits)	1,500 (Max.)
	Color Temperature (K)	2,000-10,000 / Default 6,504
	Visual Viewing Angle (H x V)	160 x 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/m ² , Max.)	543
	Heat Dissipation (BTU/h/Cabinet, Max.)	751
	Heat Dissipation (BTU/h/Cabinet, Avg.)	597
	Heat Dissipation (BTU/h/m ² , Max.)	1,853
	Power Supply (Vac)	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)	Up to 100,000 hours
	Operating Temperature (°F / °C)	32 to 104 / 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	Megapixel VR Helios
	Warranty	3 Year Limited

Megapixel VR Helios (Controller)

	Cabinet	LSAP, LBAG
Max Output Range	Loading Capacity	8,192 x 4,320 @ 60 Hz
	Output Resolution	35.3 Million Pixels
Input	HDMI 2.0, HDCP 2.2, DP 1.4 (HBR3), SDI (4 x 12G-SDI), OPS (ST2110)	
Output	Optic (To LED Screen) (8 x 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	
Mechanical	Size (W x H x D, in. / mm)	19.0 x 1.7 x 15.5 / 481.5 x 44.2 x 393
	Weight (lbs. / kg)	12.6 / 5.7

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