



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

Studio Series MAGNIT LBAF

DVLED for Virtual Production (LG webOS)



Curve Effect Available



Stacking & Hanging System Available



Black Immersion



Easy Installation and Maintenance



Wide Viewing Angle



Broadcast Quality Available

MAGNIT LBAF - Wall

Pixel Pitch 1.56 mm

Brightness 1,500 nits

Weight per Module 0.33 lbs

Service Access Rear

Certifications CE / FCC / ETL





Easy Installation & Maintenance

The module can be 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.



Curve Effect Available

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



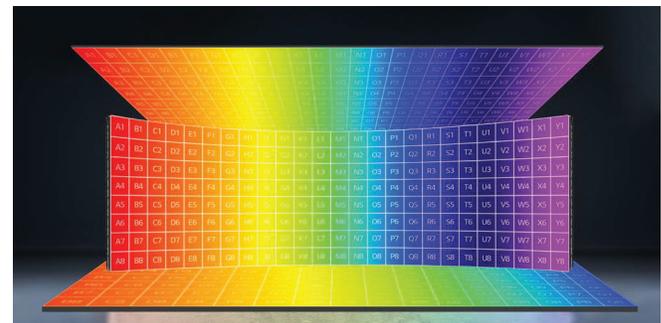
Stacking & Hanging System Available

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



Black Immersion, Enlivened Details

By removing the package surrounding R, G, B LED chips and applying LG's own Full Black Coating technology, the Studio Series MAGNIT LABF provides a deep black and high contrast ratio. This not only enhances color vividness but also makes the details which were hidden in the shadows appear more clearly, providing audiences a sense of immersion.



Colors as the Content Creators Intended

By carefully selecting an LED chip which is a key factor to determine color purity, its narrowed wavelength allows Studio Series MAGNIT LABF to show uniform colors across the screen. Furthermore, the enhanced Gamut Transfer technology supports display of colors as creators intended, which is essential for places where color representation is demanding.



Wide Color Viewing Angle

Thanks to the structure of Studio Series MAGNIT LABF, it minimizes color distortion with respect to the audience's viewing angle. The vivid, crisp, high-contrast image can be appreciated even from extreme side angles, captivating viewers even when used in large-scale environments.



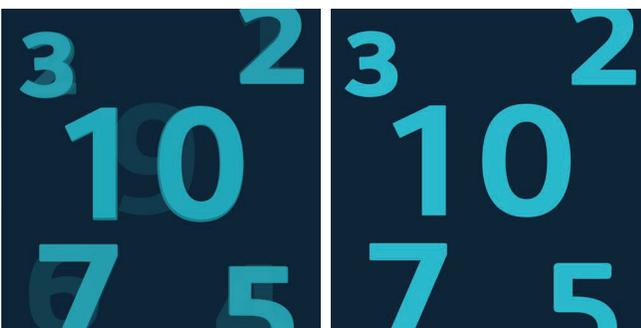
Broadcast Quality Available

With HDR capability and low latency video processing, the Studio Series MAGNIT LABF supports broadcast-quality, providing vivid and smooth playback.



V-Sync

The appearance of black lines can be prevented by adjusting the Studio Series MAGNIT LABF display's V-Sync to match the frequency between the camera and LED. This can reduce a rolling shutter effect while the camera is shooting.



Phase Shift

Phase Shift can make adjustments to the DVLED screen output timing. The Studio Series MAGNIT LABF can adjust timing manually to remove visual artifacts with Phase Shift if the camera recording results have caused a double image (double frame).



Detailed Analysis of Video Signals

The Studio Series MAGNIT LABF analyzes video input of Y', Y'-Cb, and Y'Cr and shows Waveform and Vector Scope on LED tiles. False Color, Waveform, and Vector Scope for more video details or adjustments can be read on a display.

SPECIFICATIONS

LBAF015-G1

	Pitch Name	P1.50
Physical Parameters	Pixel Configuration	COB
	Pixel Pitch	1.56 mm
	Module Resolution (W × H)	96 × 108
	Module Dimensions (W × H)	5.9 x 6.6 in. / 150 × 168.75 mm
	Weight per Module	0.33 lbs. / 0.15 kg
	No. of Modules per Cabinet (W × H)	4 × 4
	Cabinet Resolution (W × H)	384 × 432
	Cabinet Dimensions (W × H × D)	23.6 x 26.6 x 3.1 in. / 600 × 675 × 79.8 mm
	Cabinet Surface Area	4.4 ft ² / 0.405 m ²
	Weight per Cabinet	34.2 lbs. / 15.5 kg
	Weight per Square Meter	7.8 lbs/ft ² / 38.3 kg/m ²
	Physical Pixel Density (pixels/m ²)	409,600
	Flatness of Cabinet	±0.15 mm
	Cabinet Material	Die Casting Magnesium Alloy
Service Access	Rear	
Optical Specifications	Max. Brightness After Calibration	1,500 nits
	Color Temperature	3,200-9,300 K
	Visual Viewing Angle (H × V)	160° × 160°
	Brightness Uniformity	≥ 95%
	Color Uniformity	±0.015 Cx, Cy
	Contrast Ratio	100,000 : 1 (Max.)
	Processing Depth	16 bit (HDR10, HDR10 Pro)
Electrical Specifications	Power Consumption per Cabinet	210 W (Max) / 175 W (Avg)
	Max Power Consumption per Unit Area	519 W/m ²
	Heat Dissipation per Cabinet	729 BTU/hr (Max) / 599 BTU/hr (Avg)
	Max Heat Dissipation per Unit Area	1,775 BTU/hr/m ²
	Power Supply	100 to 240 Vac
	Frame Rate	96 / 100 / 120 Hz
	Refresh Rate	7,680 Hz
Operation Specifications	Lifetime (Half Brightness)	Up to 100,000 hours
	Operating Temperature	32°F to +104°F / 0°C to +40°C
	Operating Humidity	10-80% RH
	Certifications	CE / FCC / ETL
	Environment	RoHS / REACH
	webOS Controller	CBAF-0151
	90 Degree Corner Cut	No

CBAF-0151 (Controller)

	Cabinet	LBAF015-G1
Max Output Range	Loading Capacity	3,840 × 2,160 @ 60 Hz
	Output Resolution	8.2944 Million Pixels
Input	HDMI 2.0, HDCP 2.2, DP 1.2 / HDCP 1.3, SDI (4 × 3G-SDI)	
Output	Ethernet (10-channel (to LED))	
Control	LAN	Yes
	USB	Yes (Service Only)
	RS-232C	Yes (LOOP)
	GenLock	Yes (In / Out)
Sensor	Ambient Light	Yes
	Temperature	Yes
Video Processing	Brightness Adjustment, Chroma Adjustment, Improved Grayscale at Low Brightness, Scaling, HDR10/HDR10 Pro/PQ/HLG	
Application	SuperSign CMS, webOS API, LG ConnectedCare ¹⁾ , Configuration SW (LED Assistant)	
Mechanical	Size (W × H × D)	17.6 × 2.5 × 12.4 in. / 446 × 63 × 314 mm
	Weight	12.8 lbs. / 5.8 kg

¹⁾ The availability can differ by region.

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