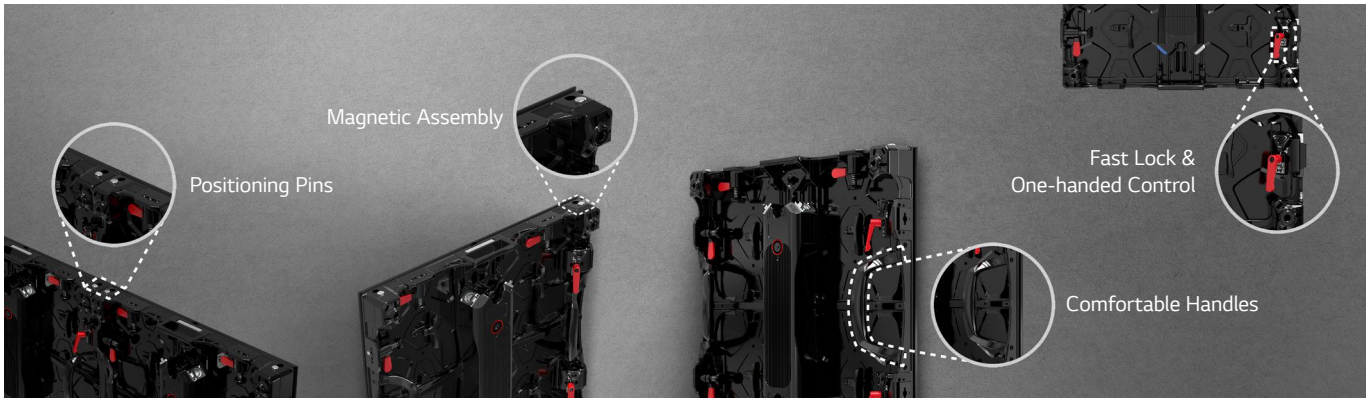
Studio Series LBAE

DVLED for Virtual Production (LG webOS)

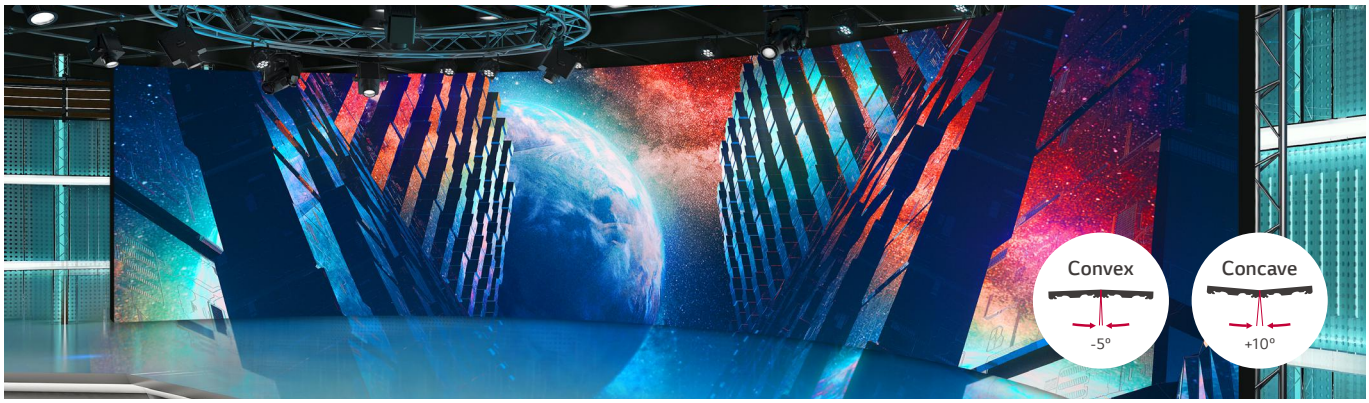
- webOS 4.1 Controller
- Curve Effect Available
- Stacking & Hanging System Available
- Broadcast Quality Available

LBAE - Wall	
Pixel Pitch	2.60 mm
Brightness	1,500 nits
Weight per Cabinet	13.2 lbs. / 6.0 kg
Service Access	Front or Rear (Select One Only)
IP Rating	IP30



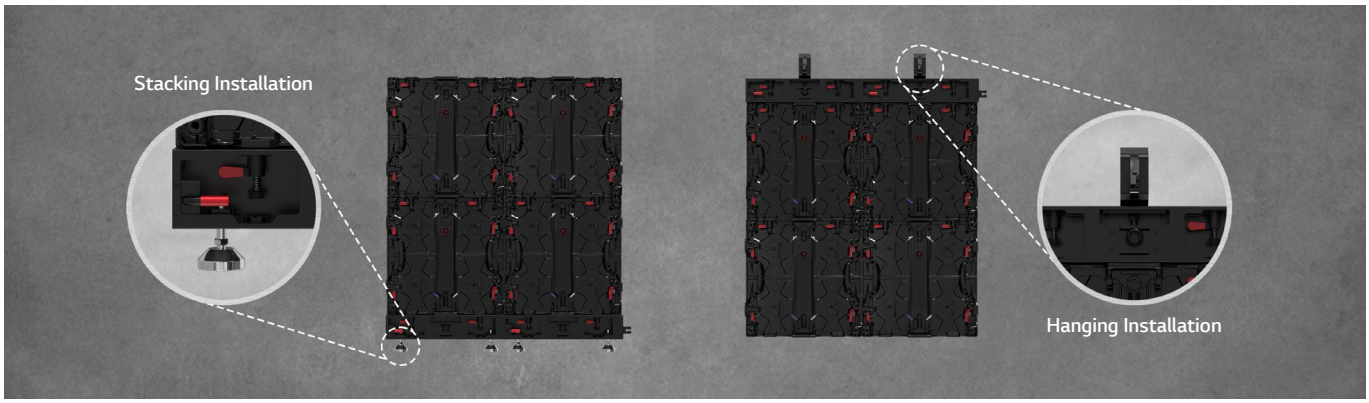
Easy Installation & Maintenance

The module can be easily removed using the dedicated tool with either front or rear (not both) service access. The positioning pins and magnets help perform panel adjustments accurately and quickly, ensuring seamless screen assembly.



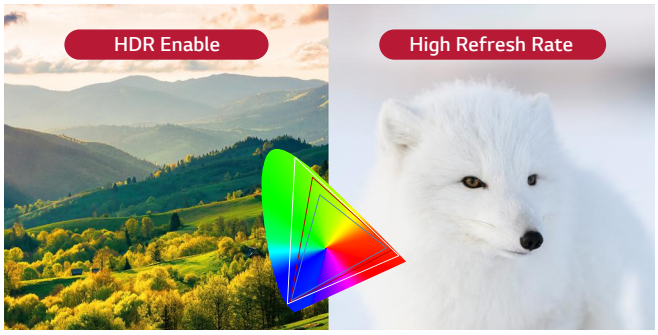
Curve Effect Available

The mechanical connection between the two panels is secured by an angle adapter system and a fast lock, adjustable by 10 degrees in concave areas and 5 degrees in convex areas.



Stacking & Hanging System Available

Installation can be performed by stacking or hanging, using the optional accessories (single, double, triple beams) for customization to the studio environment.

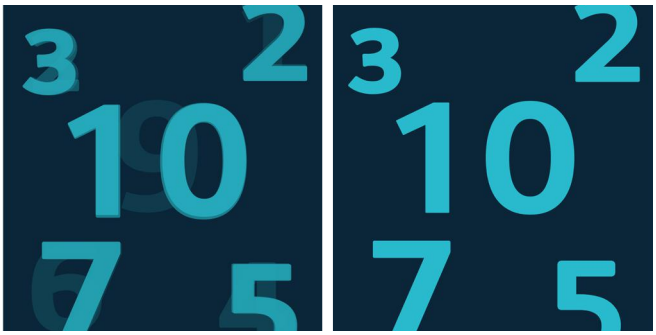


Broadcast Quality Available

Color reproduction as the content creators intended, low latency of video processing, and HDR capability.

CamSync

The presence of distracting black line artifacts can be prevented by adjusting the LED 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.

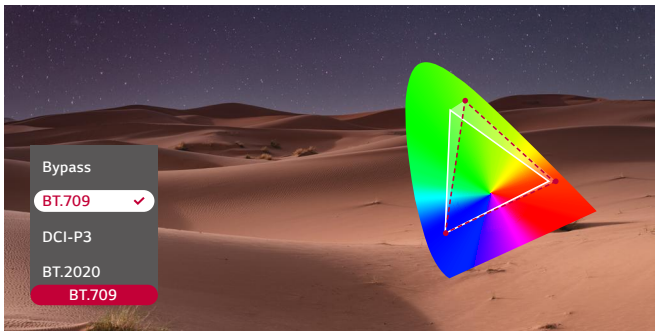


Phase Shift

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

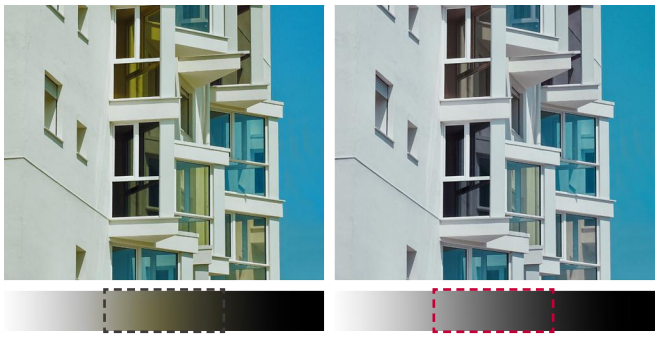
Detailed Analysis of Video Signals

The LBAE series 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 can also be read on a display for more video details or adjustments.



Color Gamut Adjustment

The RGB color gamut can be manually adjusted to match colors between LED tiles and camera to achieve desired colors.



Gamma Adjustment

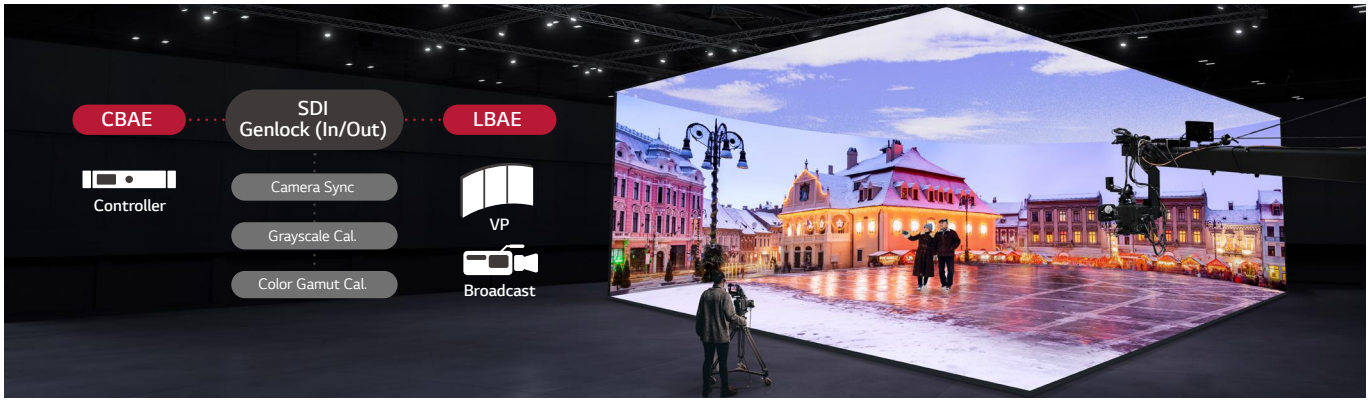
Gamma adjustment can be made manually from 0 to 1023 to calibrate RGB and fix errors.

Custom 3D-LUT

With LED displays supporting customized 3D-LUT, users can achieve their desired colors more accurately.

HDR Manual Adjustment

Although HDR metadata is not transferred from recorded video, tone-mapping can be customized with this HDR manual adjustment feature.



Broadcast and Virtual Production Controller with webOS 4.1

LBAE series is compatible with LG's CBAE controller which has SDI and Genlock (in/out) interfaces support unique features of broadcast and virtual production.

Compatibility with LG Software Solutions

When connected with the CBAE webOS system controller, the LBAE series is compatible with LG software solutions including SuperSign CMS, LED Assistant, and ConnectedCare, which help customers operate their own business properly.

* The LG ConnectedCare service is sold separately. Please contact the LG sales representative in your region for more details.
* Specific items on the Main Board can be monitored by LG ConnectedCare (e.g., Temp., Signal Status, FPGA Ver, Ethernet Connection Status), Receiving Card (Temp., LED Power)).
* Actual user interface may vary in different webOS versions.
* SuperSign CMS service is sold separately.

SPECIFICATIONS

		LBAE026-GM
Physical Parameters	Pixel Configuration	3 in 1 SMD
	Pixel Pitch	2.60 mm
	Module Resolution (W × H)	96 × 96
	Module Dimensions (W × H)	9.8 x 9.8 in. / 250 × 250 mm
	Weight per Module	1.3 lbs. / 0.59 kg
	No. of Modules per Cabinet (W × H)	2 × 2
	Cabinet Resolution (W × H)	192 × 192
	Cabinet Dimensions (W × H × D)	19.7 x 19.7 x 3.0 in. / 500 × 500 × 75.5 mm
	Cabinet Surface Area	2.7 ft² / 0.25 m²
	Weight per Cabinet	13.2 lbs. / 6 kg
	Weight per Square Meter (kg/m²)	4.9 lbs./ft² / 24 kg/m²
	Physical Pixel Density (pixels/m²)	147,456 pixels/m²
	Flatness of Cabinet (mm)	±0.15
	Cabinet material	Die Cast Magnesium Alloy
	Service Access	Front or Rear (Select One Only)
Optical Specifications	Max. Brightness (After Calibration)	1,500 nits
	Color Temperature	2,000-10,000 K (Default 6,500 K)
	Visual Viewing Angle (H × V)	160° × 160°
	Brightness Uniformity	97%
	Color Uniformity	±0.003 Cx, Cy
	Contrast Ratio	5,000:1
	Processing Depth	16 bit
Electrical Specifications	Max Power Consumption per Cabinet	180 W
	Avg Power Consumption per Cabinet	60 W
	Max Power Consumption	720 W/m²
	Power Supply	100 to 240 Vac
	Frame Rate	50 / 60 Hz
	Refresh Rate	7,680 Hz
Operation Specifications	Lifetime (Half Brightness)	Up to 100,000 Hours
	Operating Temperature	32 to 104 °F / 0 to 40 °C
	Operating Humidity	0-80% RH
	IP Rating Front / Rear	IP30

		CBAE-026M (Controller)
	Cabinet	LBAE026-GM
Max Output Range	Loading Capacity	3,840 × 2,160 @ 60 Hz
	Output Resolution	8.29 Million Pixels
Input	HDMI 2.0, HDCP 2.2, SDI (4 × 3G-SDI), Genlock In	
Output	Ethernet (20 × 1G (to LED)), Genlock Out	
Control	LAN	Yes
	USB	Yes (Service Only)
	RS-232C	Yes (LOOP)
	GenLock	Yes (In / Out)
Sensor	Brightness	Yes
	Temperature	Yes
Video Processing	Brightness Adjustment, Chroma Adjustment, Improved Grayscale at Low Brightness, Scaling, HDR10/HDR10 Pro/PQ/HLG, Low Latency (2 Frame)	
Application	SuperSign CMS, webOS API, LG ConnectedCare[1], Configuration SW (LED Assistant), LED Cal.	
Mechanical	Size (W × H × D)	17.6 x 11.9 x 2.5 in. / 446 × 63 × 301 mm
	Weight (kg)	11 lbs. / 5 kg

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

LG_SPEC-SHEET_LBAE_Studio_Series_0323SK_LR

LG Business Solutions