

A TRUE, CURVABLE DISPLAY AND SLIM DESIGN

Reach beyond conventional flat screens when designing your space

FLEXIBLE LDM

A true breakthrough in curvable displays, our LAPE series can be shaped for applications of true concave and convex curvature up to 40" radius (1,000R). This curvature range enhances design flexibility and creates unparalleled opportunities for creating dramatic screen experiences.



^{*} The conventional example shown above refers to an LED screen composed of flat LED unit cases.

SLEEK DESIGN

Maximize your usable floor space with our ultra-thin screen depth. We designed the power module separately from the screen, which dramatically reduces the amount of space required to wall mount the screen. This allows hotswappable, redundant power and easier access for serviceability. The system controller is also separate from the screen, containing a built-in media player, 4K input and scaling capability.



^{*} Additional space for LED controller, power interface board, and mounting bracket is needed.

SUPERIOR PICTURE QUALITY

Enjoy vivid and impactful displays

REALISM THROUGH LIFELIKE COLORS

The LAPE series delivers vivid and distinctive picture quality through a wide range of color details with deep contrast, thanks to LG's exclusive dynamic contrast algorithm.

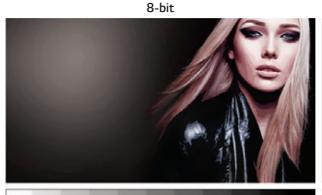




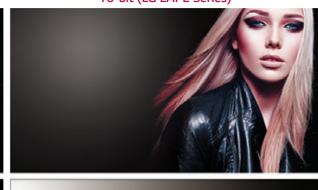


DETAILED EXPRESSION OF COLOR DEPTH

Our 16-bit color processing provides a higher grayscale level, which seamlessly displays different depths and densities of colors without distortion and delivers a more realistic and sophisticated picture.







SMOOTH PLAYBACK IN DYNAMIC MOTION

Powered by LG's display technology, a high refresh rate of 3,840 Hz assures the smooth playback of content. The flicker-free image is easier on the eyes and prevents black bars from distorting the video.

Low Refresh Rate



High Refresh Rate (LG LAPE Series)

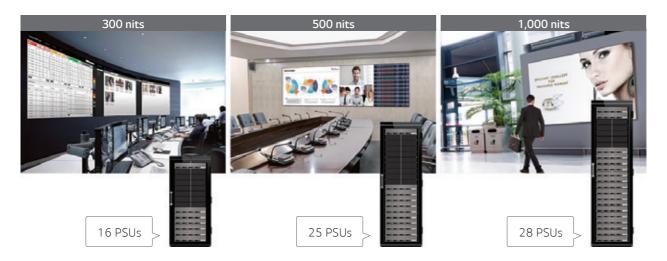


OPERATIONAL EFFICIENCY

Maximize performance with our unique architectural platform

FLEXIBLE POWER MANAGEMENT

Our engineers dramatically improved the internal thermal condition of the LAPE series' screens by separating the power supply units (PSUs). Thanks to the modular power design, users can choose their desired screen brightness by customizing the number of PSUs* based on the electrical capacity of their specific environment.

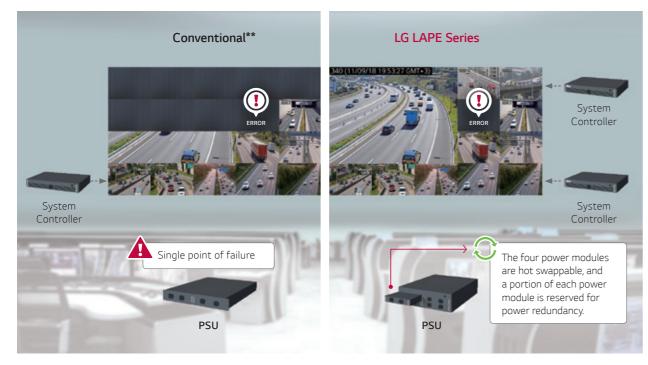


^{*} The number of power units required may vary depending on the installation environment.

The above description is an example of a UHD screen configuration with a 2.0 mm pitch in redundancy off mode.

POWER/SIGNAL REDUNDANCY SUPPORT

To ensure your displays project continuously, the LAPE series is designed with optional, built-in power/signal redundancy.* This PSU feature assures the continuous operation of the screen without power failure, while the dual controllers minimize screen failure with a bi-directional signal input.



^{*} Additional equipment costs may apply.

PRECISE FHD/UHD SCREEN CONFIGURATION

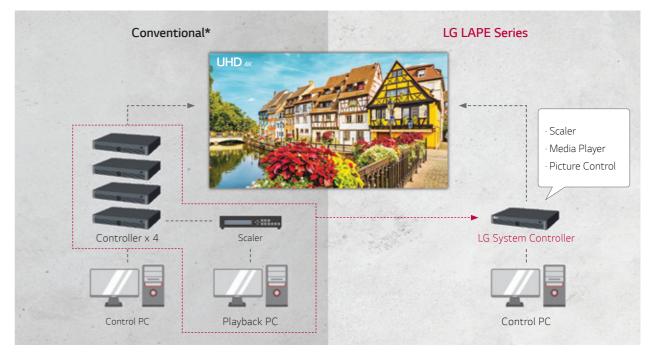
With the LAPE series, it is now possible to configure a perfect FHD/UHD resolution display that eliminates native resolution issues. Depending on your goals, the table below shows how to configure FHD and UHD displays with all three LAPE models.



	LAPE 1.5	LAPE 2.0	LAPE 2.5
Full HD (1,920 x 1,080)	6 x 3 unit configuration	8 x 4 unit configuration	10 x 5 unit configuration
Ultra HD (3,840 x 2,160)	12 x 6 unit configuration	16 x 8 unit configuration	20 x 10 unit configuration

SMART, HIGH PERFORMANCE SYSTEM CONTROLLER

The LAPE series comes with a versatile 4K system controller that provides a simplified system configuration in a high-resolution canvas platform. The controller also has a built-in high performance media player and scaler. Additionally, it incorporates LG's exclusive picture control features, such as dynamic contrast and power saving mode options.



^{*} The conventional example shown above refers to LED displays that don't have an all-in-one system controller.

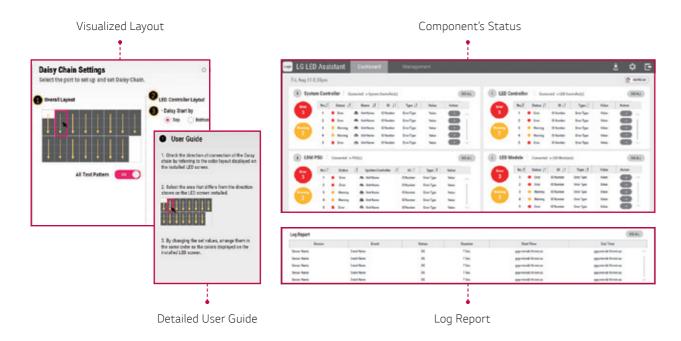
^{**} The conventional example shown above refers to LED displays which do not support the power/signal redundancy mode.

OPERATIONAL EFFICIENCY

Maximize performance with our unique architectural platform

INTUITIVE MANAGEMENT SOFTWARE

LG's new management control software platform, LED Assistant, provides a simple visual guide and all-in-one dashboard that shows real-time status of screen components to facilitate oversight at a glance.



REAL-TIME 365 CARE SERVICE

To further facilitate and fast-track maintenance tasks, we also offer Signage 365 Care,* an optional, cloud-based service provided by LG Service. With Signage 365 Care, your workplace LED displays can be remotely monitored for fault diagnosis and remote control services.



^{*} The availability of Signage 365 Care service can differ by region, so please contact the LG sales representative in your region for further details.

CONVENIENT INSTALLATION

Achieve precise alignment

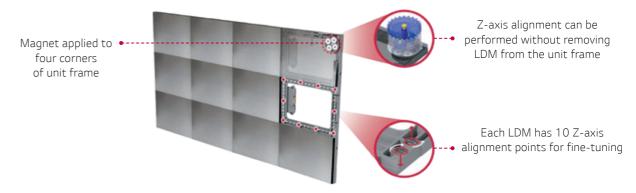
EASY TO HANDLE & INSTALL

Conventional installations of large-sized and heavy cabinet-based displays often result in visible LED pixel defects. To correct this issue, the LAPE series introduces much smaller, lightweight LDM-based installation, which creates incomparable ease of handling with far less risk of LED pixel damage during set up.



PRECISE SCREEN ALIGNMENT

The standard unit frame of the LAPE series has been carefully designed to achieve perfect screen flatness and alignment. At the four corners of each frame, magnetic screws have been applied to facilitate real-time LDM Z-axis alignment.



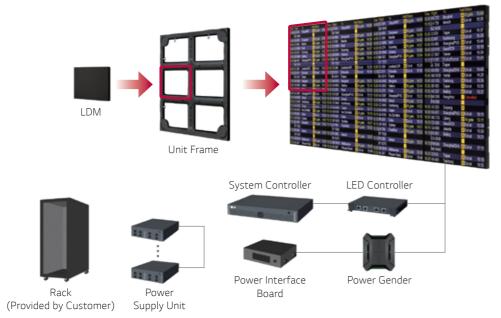
CONVENIENT FRONT INSTALLATION & SERVICE

The LAPE series was designed with front installation and front service access, which dramatically improves accessibility while also providing larger workspaces for service updates.



PRODUCT INFORMATION

SYSTEM CONNECTION



^{*} The number of components required may differ depending on the screen size and other options.

SPECIFICATIONS

Module Na	me	LAPE 1.5 mm	LAPE 2.0 mm	LAPE 2.5 mm	
Physical - Parameters	LED Display Module	LAP015EL6B	LAP020EL6B	LAP025EL4D	
	Pixel Configuration	3-in-1 SMD	3-in-1 SMD	3-in-1 SMD	
	Pixel Pitch	0.1" / 1.50 mm	0.1" / 2.00 mm	0.1" / 2.50 mm	
	Module Resolution (W x H)	160 x 120	120 x 90	96 x 72	
	Module Dimensions (W x H)	9.5" x 7.1" / 240 x 180 mm	9.5" x 7.1" / 240 x 180 mm	9.5" x 7.1" / 240 x 180 mm	
	Weight per Module	0.7 lbs / 0.3 kg	0.7 lbs / 0.3 kg	0.7 lbs / 0.3 kg	
	No. of Modules per Unit Frame (W x H)	2×3	2 x 3	2×3	
	Unit Frame Resolution (W x H)	320 x 360	240 x 270	192 x 216	
	Unit Frame Dimensions (W x H x D)	18.9" x 21.3" x 1.6" / 480 x 540 x 40 mm	18.9" x 21.3" x 1.6" / 480 x 540 x 40 mm	18.9" x 21.3" x 1.6" / 480 x 540 x 40 mm	
	Unit Frame Surface Area	403 in ² / 0.3 m ²	403 in ² / 0.3 m ²	403 in ² / 0.3 m ²	
	Weight per Unit Frame	11.3 lbs / 5.1 kg per unit (includes 1 Unit Frame, 6 LDMs and 3 Power Genders)			
	Weight per Square Meter	4.1 lbs / ft² / 19.8 kg / m²	4.1 lbs / ft² / 19.8 kg / m²	4.1 lbs / ft² / 19.8 kg / m²	
	Physical Pixel Density	444,444 pixels per m²	250,000 pixels per m ²	160,000 pixels per m ²	
	Flatness of Unit Frame	±0.2	±0.2 ±0.2		
	Unit Frame Material	Die Casting Aluminum	ting Aluminum Die Casting Aluminum		
	Service Access	Front / Rear	Front / Rear	Front / Rear	
	Max. Brightness (After Calibration)	1,000 nits	1,000 nits	1,000 nits	
Optical	Color Temperature	3,200 - 9,300	3,200 - 9,300	3,200 - 9,300	
	Visual Viewing Angle (Horizontal)	160°	160°	160°	
	Visual Viewing Angle (Vertical)	140°	140°	140°	
pecifications	Brightness Uniformity	≥97%	≥97%	≥97%	
	Color Uniformity	±0.015Cx, Cy	±0.015Cx, Cy	±0.015Cx, Cy	
	Contrast Ratio	6,000:1	6,000:1	6,000:1	
	Processing Depth (Bit)	16	16	16	
Electrical Specifications	Power Consumption (Avg.)	170 W per Unit	170 W per Unit	170 W per Unit	
	Power Consumption (Max.)	330 W per Unit (@1,000 nits)	330 W per Unit (@1,000 nits)	330 W per Unit (@1,000 nits)	
	Power Consumption (Max.)	118 W / ft² / 1,270 W / m² (@1,000 nits)	118 W / ft² / 1,270 W / m² (@1,000 nits)	118 W / ft² / 1,270 W / m² (@1,000 nits)	
	Power Supply	100 to 240 V	100 to 240 V	100 to 240 V	
	Frame Rate	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	
	Refresh Rate	3,840 Hz	3,840 Hz	3,840 Hz	
Operation	Lifetime (Half Brightness)*	100,000 Hours	100,000 Hours	50,000 Hours	
	Operating Temperature	32° to 104° F / 0° to 40° C	32° to 104° F / 0° to 40° C	32° to 104° F / 0° to 40° C	
Specifications	Operating Relative Humidity	10% to 80%	10% to 80%	10% to 80%	
Environment		RoHS	RoHS	RoHS	

^{*} The Lifetime (Half Brightness) spec is subject to LED package spec.

Unit Frame			LFLG000E	
ome i raine	Color		Black	
	Dimension (W x H x D	2)	18.9" x 21.3" x 0.7" / 480 x 540 x 17 mm	
	Differsion (VV X FI X L	per Unit	5.6 lbs / 2.54 kg	
rame	Weight	per Unit Area	2.0 lbs / ft² / 9.8 kg / m²	
	Carton Dimensions (V		20.9" x 23.6" x 1.4" / 530 x 600 x 35 mm	
	Packed Weight	V X I I X D)	7.7 lbs / 3.5 kg	
	Operation Temperatur	ira	32° to 104° F / 0° to 40° C	
nvironmental	Storage Temperature		-4° to 140° F / -20° to 60° C / 5% to 85%	
Conditions	Operational Relative I		10% to 80%	
	· · ·	lumidity		
_ED Contro	ller		LLLG003E*	
		Data Out	O(9), 30 Pin to LDM	
		Power In	O(1) (15 Pin)	
ED	Interface	Power Out	O(1) (15 Pin)	
ontroller		RJ45	O(1), from System Controller / O(1), to LED Controller / O(2), Redundancy (Optional)	
	Power Consumption		10 W	
	Dimension (W x H x D	0)	8.1" x 6.1" x 1.2" / 206 x 156 x 30.1 mm	
Physical Specifications	Weight	,	1.3 lbs / 0.6 kg	
	Carton Dimensions (W x H x D)		11.1" x 9.1" x 6.7" / 282 x 232 x 164 mm	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Packed Weight		3.09 lbs / 1.4 kg	
	Operation Temperatur	ire	32° to 104° F / 0° to 40° C	
nvironmental Storage Temperature/Relative Humidity			-4° to 140° F / -20° to 60° C / 5% to 85%	
onditions	Operational Relative I	-	10% to 80%	
	Speradonal Netative I	DC Power Cable	0(2)	
ccessory		Data Cable	O(2)	
CCC3301 y		QSG	O(0)	
		Q50		
ystem Cor	ntroller		LCLG003E*	
		HDMI	O(1)	
		DP	0(1)	
ystem		OPS	0(1)	
ontroller	Interface	RJ45	In (1), Out (16)	
		RS232C	In (1), Out (1)	
		USB 2.0	0(1)	
	Dimension (W x H x D		17.4" x 12.6" x 2.9" / 443 x 320 x 63 mm	
hysical	Weight	,	10.80 lbs / 4.9 kg	
pecifications	Carton Dimensions (V	W×H×D)	20.9" x 15.4" x 6.7" / 530 x 392 x 169 mm	
	Packed Weight	,	14.1 lbs / 6.4 kg	
		AC Power Cable	O(1)	
		Phone to RS232C Gender	0(1)	
ccessory	Basic	HDMI Cable	0(1)	
		QSG	0(1)	
		Rack Bracket	0(2)	
	Temperature Sensor	Nack Bracket	Yes	
Special	LOD (LED Open Detection)		No	
eatures	Power Detection		Yes	
cutures	Dual Directional Feed	of Signal	Yes	
	Power Supply	Of Signal	100 - 240 V-, 50 / 60 Hz	
louser				
ower	Power Type Power Consumption		Built-In Adaptor	
		iro.	50 W	
nvironmental	Operation Temperature Storage Temperature/Relative Humidity		32° to 104° F / 0° to 40° C	
onditions			-4° to 140° F / -20° to 60° C / 5% to 85%	
	Operational Relative I	lumilaty	10% to 80%	
ower Supp	oly Unit		LPLG00*	
		RJ45	In (1)	
	Data	USB	0(1)	
onnectivity		RS232C	O(2)	
-	Power	Out	0(3)	
	Dimension (W x H x D		17.4" x 23.6" x 5.1" / 443 x 598.6 x 130.5 mm	
hysical	Weight		57.3 lbs / 26 kg	
Specifications	Carton Dimensions (W x H x D)		27.9" x 27.9" x 10.8" / 709 x 556 x 274 mm	
	Carton Dimensions (W x H x D) Packed Weight		75 lbs / 34 kg	
Accessory Basic	. dence vreight	Power Cord	0(4)	
		24P Power Cable	0(1)	
	Basic	Interface Board	0(1)	
		RS232C Cable	0(1)	
pecial Features	s Dual Power		Yes	
Jeenan i Editui ES			100 - 240 V~, 50 / 60 Hz	
Power -	Power Supply Power Type		Separate Type (Power Redundancy)	
	Power Out		Separate Type (Power Redundancy) 48 V DC 3 Ports	
			17.5" x 5.1" x 24.0" / 445.2 x 130.3 x 608.3 mm	
	Dimension Redundancy			
ower	Redundancy Hot Swop		0	
ower	Hot Swap		0	
ower			0	
ower	Power Status LED		10000 100	
ower	Power Status LED Maximum Distance		196.9 ft / 60 m	
	Power Status LED Maximum Distance Operational Temperat		32° to 104° F / 0° to 40° C	
nvironmental	Power Status LED Maximum Distance Operational Temperat Storage Temperature,	/Relative Humidity	32° to 104° F / 0° to 40° C -4° to 140° F / -20° to 60° C / 5% to 85%	
nvironmental onditions	Power Status LED Maximum Distance Operational Temperat Storage Temperature, Operational Relative H	/Relative Humidity	32° to 104° F / 0° to 40° C -4° to 140° F / -20° to 60° C / 5% to 85% 10% to 80%	
convironmental conditions standard Certification)	Power Status LED Maximum Distance Operational Temperat Storage Temperature	/Relative Humidity	32° to 104° F / 0° to 40° C -4° to 140° F / -20° to 60° C / 5% to 85%	

 $^{{}^{\}star}\,\mathsf{Model}\,\mathsf{codes}\,\mathsf{may}\,\mathsf{vary}\,\mathsf{by}\,\mathsf{system}\,\mathsf{configuration}.\,\mathsf{Please}\,\mathsf{contact}\,\mathsf{the}\,\mathsf{LG}\,\mathsf{sales}\,\mathsf{representative}\,\mathsf{in}\,\mathsf{your}\,\mathsf{region}\,\mathsf{for}\,\mathsf{further}\,\mathsf{details}.$