

LG PREMIUM FINE-PITCH LED DISPLAY

LAPE Series



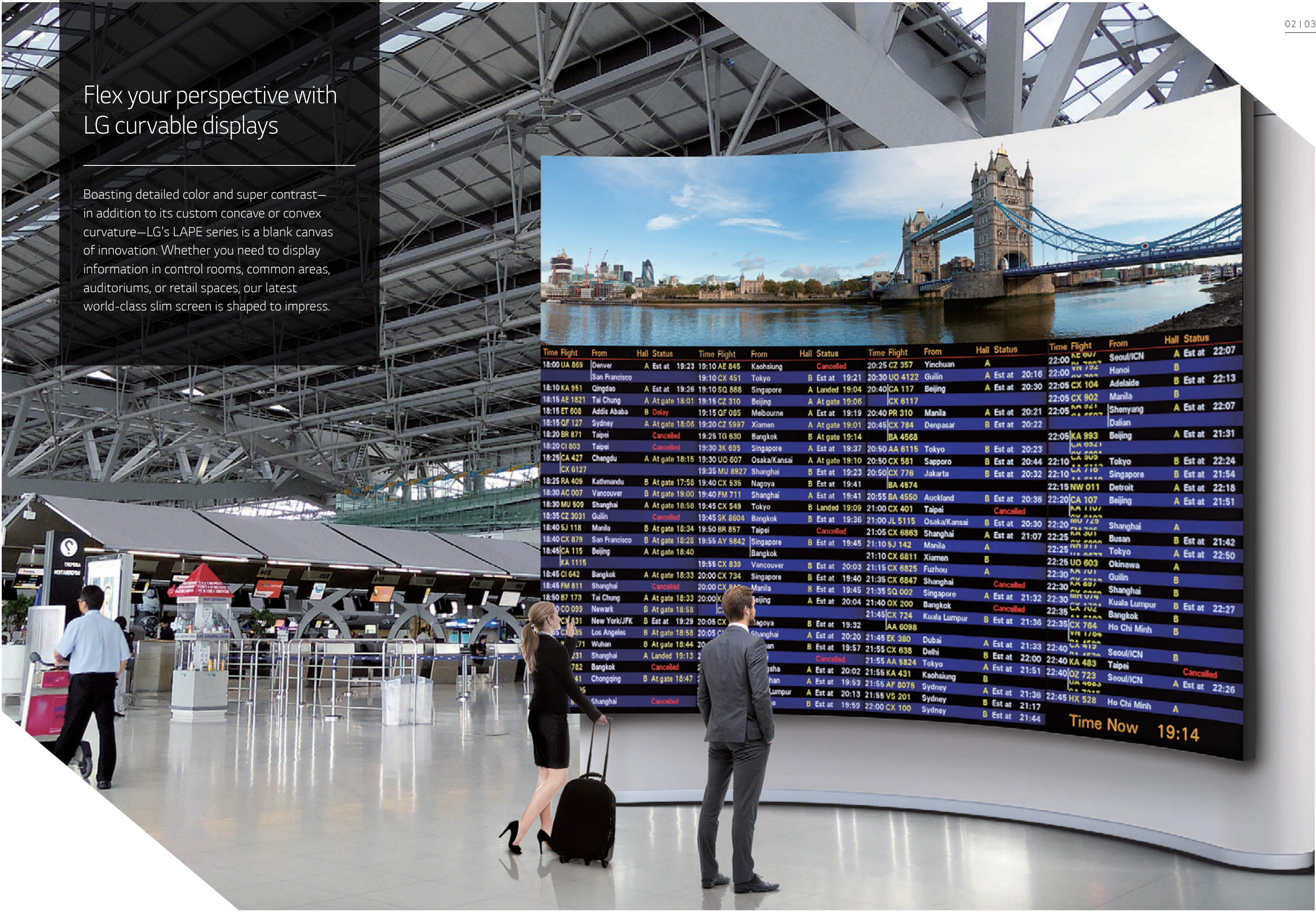
※ Actual on-site appearance may differ from the above simulated scene.

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SPEC_LAPE_0219SD_PR

Flex your perspective with LG curvable displays

Boasting detailed color and super contrast—in addition to its custom concave or convex curvature—LG's LAPE series is a blank canvas of innovation. Whether you need to display information in control rooms, common areas, auditoriums, or retail spaces, our latest world-class slim screen is shaped to impress.



※ Actual on-site appearance may differ from the above simulated scene.

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 hot-swappable, 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

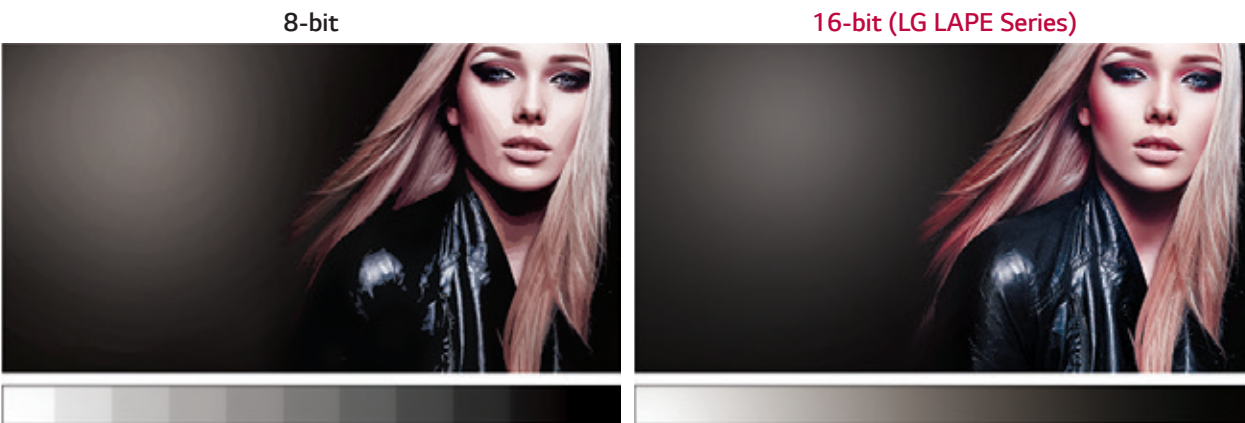
REALISM THROUGH LIFELIKE COLORS

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.

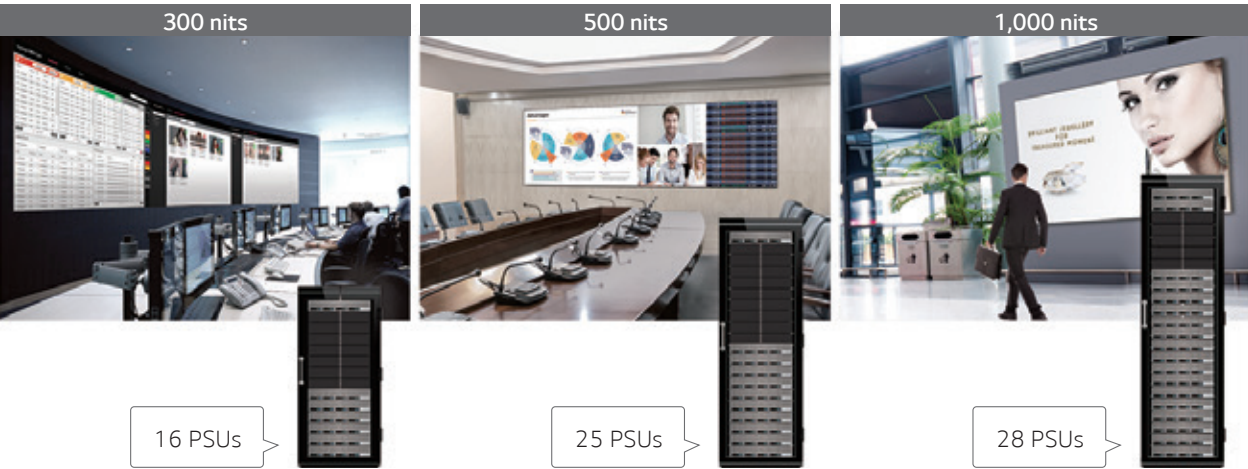


OPERATIONAL EFFICIENCY

Maximize performance with our unique architectural platform

FLEXIBLE POWER MANAGEMENT

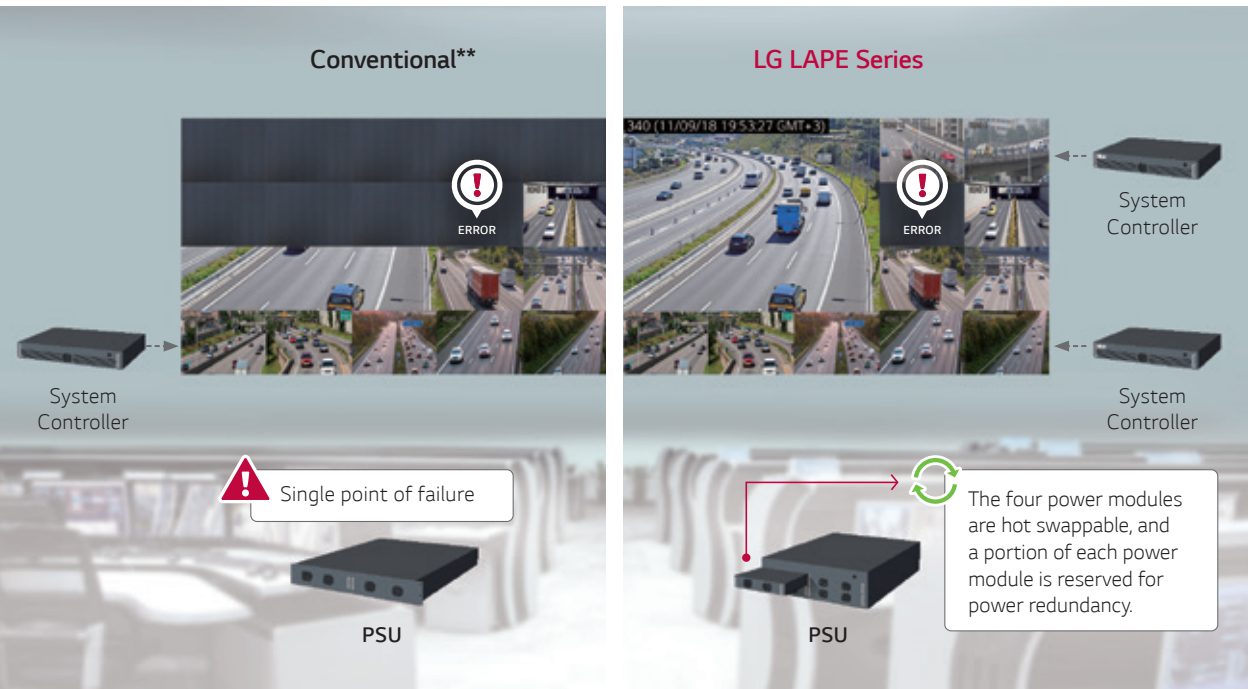
Our engineers dramatically improved the internal thermal condition of the LAPE series' screens by separating the power supply units (PSUs). Thanks to the modular power design, users can choose their desired screen brightness by customizing the number of PSUs* based on the electrical capacity of their 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.
** The conventional example shown above refers to LED displays which do not support the power/signal redundancy mode.

PRECISE FHD/UHD SCREEN CONFIGURATION

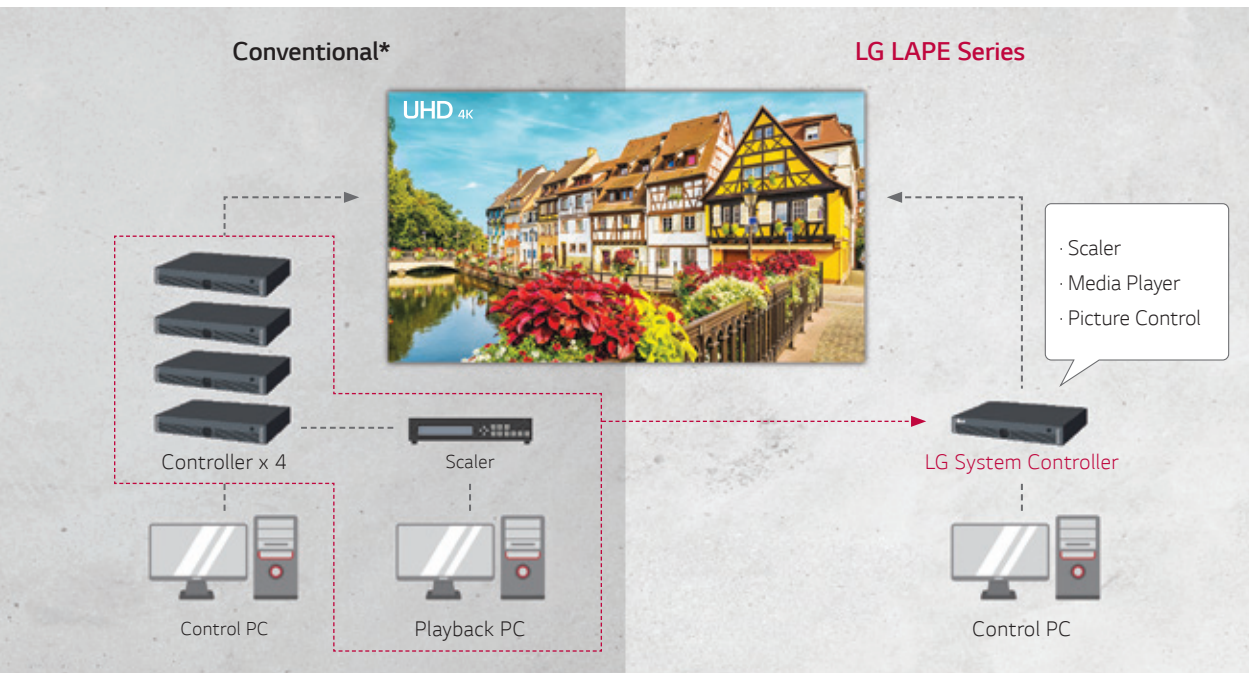
With the LAPE series, it is now possible to configure a perfect FHD/UHD resolution display that eliminates native resolution issues. Depending on your goals, the table below shows how to configure FHD and UHD displays with all three LAPE models.



	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.



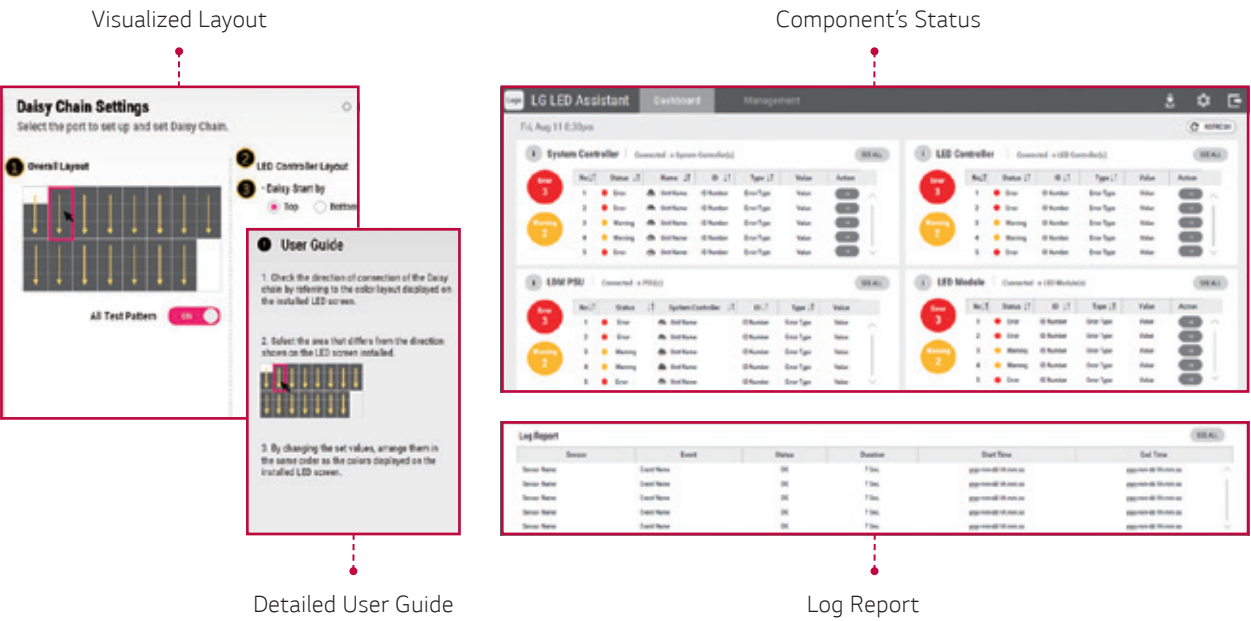
* The conventional example shown above refers to LED displays that don't have an all-in-one system controller.

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.



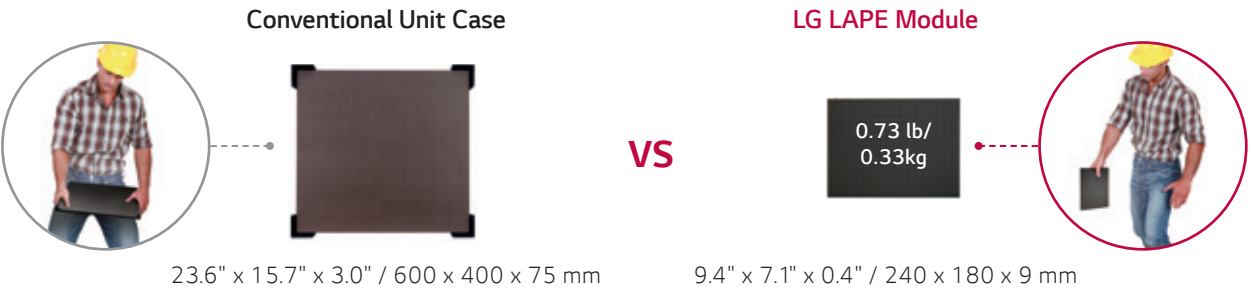
* The availability of Signage 365 Care service can differ by region, so please contact the LG sales representative in your region for further details.

CONVENIENT INSTALLATION

Achieve precise alignment

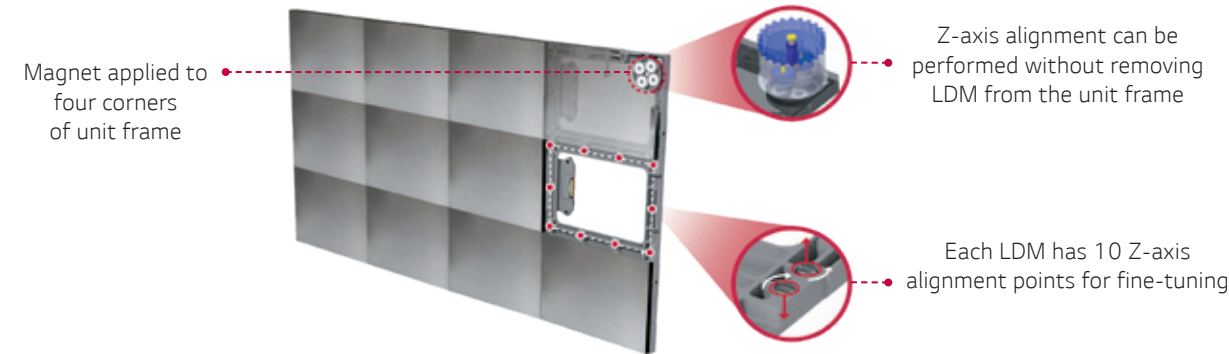
EASY TO HANDLE & INSTALL

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.



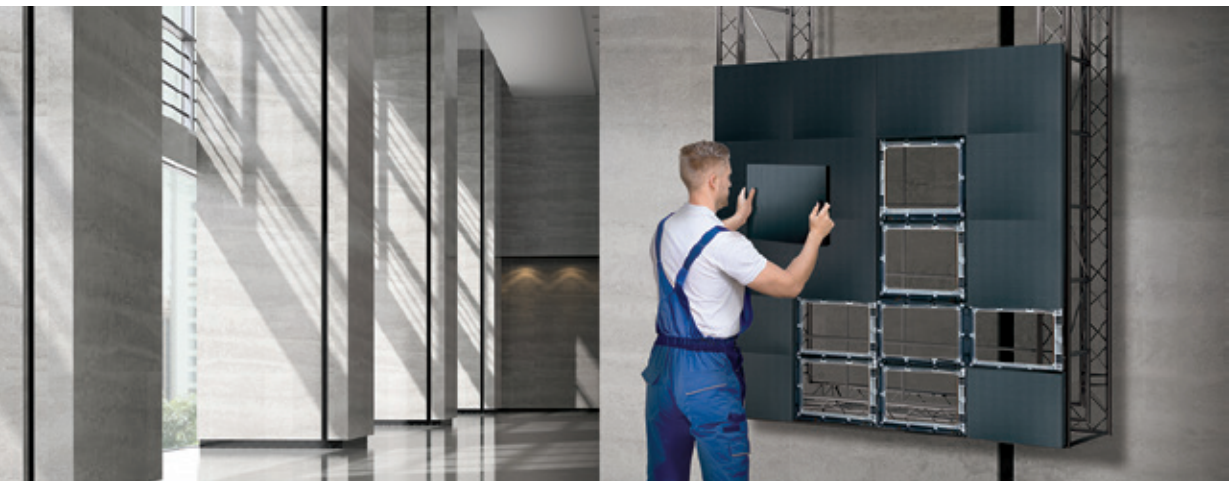
PRECISE SCREEN ALIGNMENT

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.



The diagram illustrates the components and installation of the LDM (Local Display Module) into the Unit Frame.

Top Section: Shows the LDM (a small black rectangular module) being inserted into the Unit Frame (a black metal frame with multiple slots). A red box highlights the specific slot where the LDM is installed. An arrow points from the LDM to the Unit Frame, and another arrow points from the Unit Frame to the right, indicating the flow of installation.

Bottom Section: Shows the Rack (Provided by Customer) and the Power Supply Unit (PSU) connected to the System Controller and LED Controller. The System Controller is connected to the LED Controller, which is then connected to the Power Interface Board and the Power Gendur (Power Generator).

SPECIFICATIONS

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

* Model codes may vary by system configuration. Please contact the LG sales representative in your region for further details.