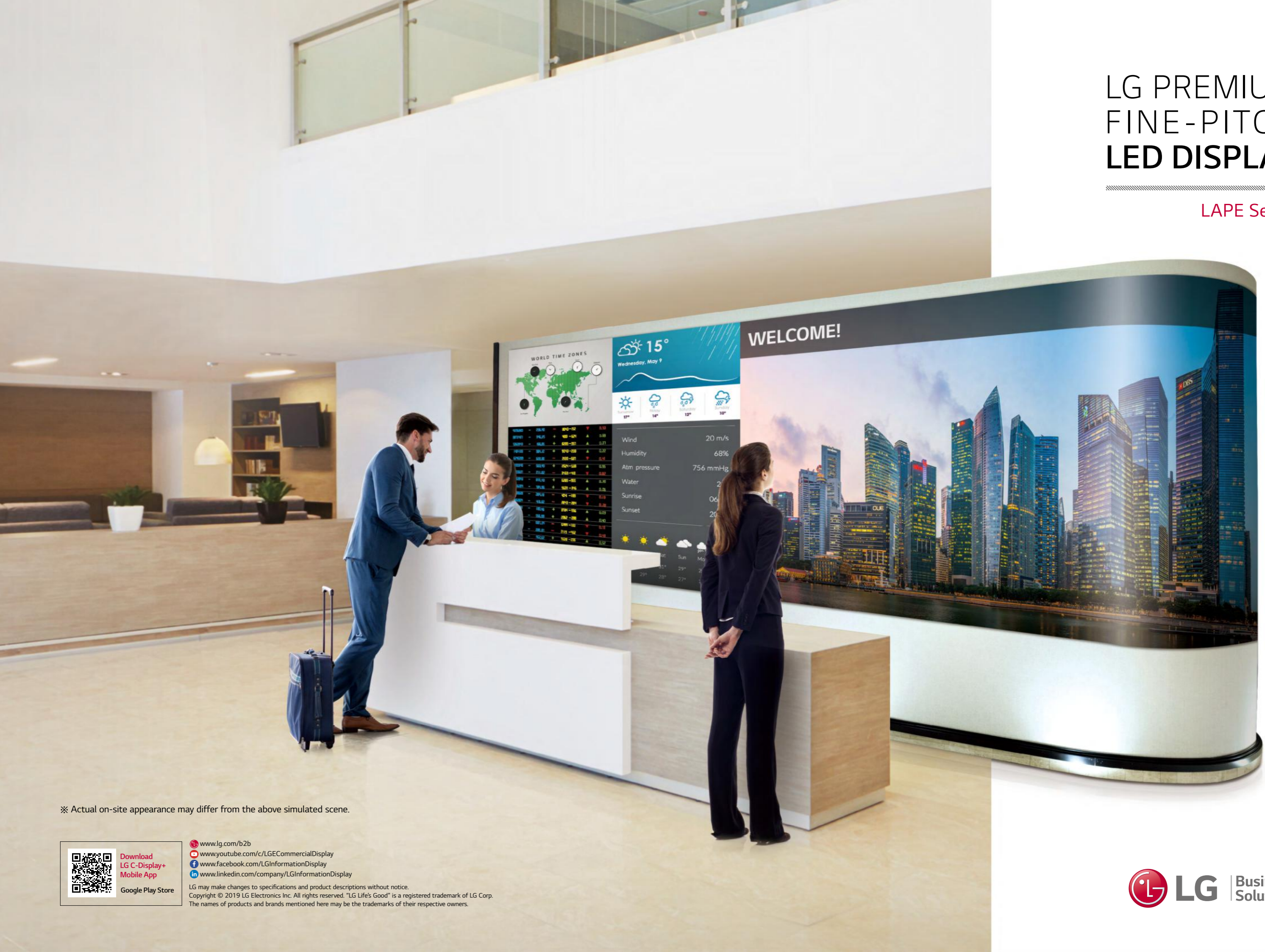


LG PREMIUM FINE-PITCH LED DISPLAY

LAPE Series



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



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An artistic landmark with dynamic content brings new horizons to the LED signage world

Boasting detailed color and super contrast, LG's LAPE series brings content to life through freedom of design, giving it outstanding presence as a work of media art. A world-class slim screen was developed thanks to modular type architectural design concepts and flexible LDM. The LAPE series brings technological innovation and artistic values together.

| Time Flight | From | Hall | Status | Time Flight | From | Hall | Status | Time Flight | From | Hall | Status | Time Flight | From | Hall | Status |
|---------------|---------------|------|---------------|---------------|----------------|------|---------------|---------------|----------------|------|--------------|---------------|--------------|------|--------------|
| 18:00 UA 889 | Denver | A | Est at 19:23 | 19:10 AE 845 | Kaohsiung | | Cancelled | 20:25 CZ 357 | Yinchuan | A | | 22:00 KE 607 | Seoul / ICN | A | Est at 22:07 |
| | San Francisco | | | 19:10 CX 451 | Tokyo | B | Est at 19:21 | 20:30 UO 4122 | Guilin | A | Est at 20:16 | 22:00 VN 792 | Hanoi | B | |
| 18:10 KA 951 | Qingdao | A | Est at 19:26 | 19:10 SQ 868 | Singapore | A | Landed 19:04 | 20:40 CA 117 | Beijing | A | Est at 20:30 | 22:05 CX 104 | Adelaide | B | Est at 22:13 |
| 18:15 AE 1821 | Tai Ching | A | At gate 18:01 | 19:15 CZ 310 | Beijing | A | At gate 19:06 | CX 6117 | | | | 22:05 CX 902 | Manila | B | |
| 18:15 ET 608 | Addis Ababa | B | Delay | 19:15 QF 085 | Melbourne | A | Est at 19:19 | 20:40 PR 310 | Manila | A | Est at 20:21 | 22:05 KA 921 | Shenyang | A | Est at 22:07 |
| 18:15 QF 127 | Sydney | A | At gate 18:06 | 19:20 CZ 5997 | Xiamen | A | At gate 19:01 | 20:45 CX 784 | Denpasar | B | Est at 20:22 | | Dalian | | |
| 18:20 BR 871 | Taipei | | Cancelled | 19:25 TG 630 | Bangkok | B | At gate 19:14 | BA 4568 | | | | 22:05 KA 993 | Beijing | A | Est at 21:31 |
| 18:20 CI 803 | Taipei | | Cancelled | 19:30 3K 695 | Singapore | A | Est at 19:37 | 20:50 AA 6115 | Tokyo | B | Est at 20:23 | CA 6521 | | | |
| 18:25 CA 427 | Chengdu | A | At gate 18:15 | 19:30 UO 607 | Osaka / Kansai | A | At gate 19:10 | 20:50 CX 581 | Sapporo | B | Est at 20:44 | 22:10 CX 505 | Tokyo | B | Est at 22:24 |
| | | | | 19:35 MU 8927 | Shanghai | B | Est at 19:23 | 20:50 CX 776 | Jakarta | B | Est at 20:32 | 22:10 CX 718 | Singapore | B | Est at 21:54 |
| 18:25 RA 409 | Kathmandu | B | At gate 17:58 | 19:40 CX 535 | Nagoya | B | Est at 19:41 | BA 4574 | | | | 22:15 NW 011 | Detroit | A | Est at 22:18 |
| 18:30 AC 007 | Vancouver | B | At gate 19:00 | 19:40 FM 711 | Shanghai | A | Est at 19:41 | 20:55 BA 4550 | Auckland | B | Est at 20:36 | 22:20 CA 107 | Beijing | A | Est at 21:51 |
| 18:30 MU 509 | Shanghai | A | At gate 18:58 | 19:45 CX 549 | Tokyo | B | Landed 19:09 | 21:00 CX 401 | Taipei | | Cancelled | KA 1107 | | | |
| 18:35 CZ 3031 | Guilin | | Cancelled | 19:45 SK 8604 | Bangkok | B | Est at 19:36 | 21:00 JL 5115 | Osaka / Kansai | B | Est at 20:30 | 22:20 MU 725 | Shanghai | A | |
| 18:40 5J 118 | Manila | B | At gate 18:34 | 19:50 BR 857 | Taipei | | Cancelled | 21:05 CX 6863 | Shanghai | A | Est at 21:07 | 22:25 KA 301 | Busan | B | Est at 21:42 |
| 18:40 CX 879 | San Francisco | B | At gate 18:28 | 19:55 AY 5842 | Singapore | B | Est at 19:45 | 21:10 5J 142 | Manila | A | | 22:25 NA 911 | Tokyo | A | Est at 22:50 |
| 18:45 CA 115 | Beijing | A | At gate 18:40 | | Bangkok | | | 21:10 CX 6811 | Xiamen | B | | 22:25 UO 603 | Okinawa | A | |
| | | | | 19:55 CX 839 | Vancouver | B | Est at 20:03 | 21:15 CX 6825 | Fuzhou | A | | 22:30 KA 701 | Guilin | B | |
| 18:45 CI 642 | Bangkok | A | At gate 18:33 | 20:00 CX 734 | Singapore | B | Est at 19:40 | 21:35 CX 6847 | Shanghai | | Cancelled | 22:30 KA 897 | Shanghai | B | |
| 18:45 FM 811 | Shanghai | | Cancelled | 20:00 CX 888 | Manila | B | Est at 19:45 | 21:35 SQ 002 | Singapore | A | Est at 21:32 | 22:30 MA 074 | Kuala Lumpur | B | Est at 22:27 |
| 18:50 B7 173 | Tai Chung | A | At gate 18:33 | 20:00 | Beijing | A | Est at 20:04 | 21:40 OX 200 | Bangkok | | Cancelled | 22:35 CX 702 | Bangkok | B | Est at 22:27 |
| | | | | 20:05 CX 831 | New York / JFK | B | Est at 19:29 | 20:05 CX 831 | Nagoya | B | Est at 19:32 | 22:35 CX 764 | Ho Chi Minh | B | |
| 18:55 CA 885 | Los Angeles | B | At gate 18:58 | 20:05 CX 885 | Shanghai | A | Est at 20:20 | 21:45 EK 380 | Dubai | A | Est at 21:33 | VN 1764 | | | |
| 18:55 CA 271 | Wuhan | B | At gate 18:44 | 20:05 CX 885 | Shanghai | A | Est at 19:57 | 21:55 CX 638 | Delhi | B | Est at 22:00 | 22:40 CX 419 | Seoul / ICN | B | |
| 18:55 CA 231 | Shanghai | A | Landed 19:13 | 20:05 CX 885 | Shanghai | A | Est at 19:57 | 21:55 AA 5824 | Tokyo | A | Est at 21:51 | 22:40 KA 483 | Taipei | B | |
| 18:55 CA 782 | Bangkok | | Cancelled | 20:05 CX 885 | Shanghai | A | Est at 20:02 | 21:55 KA 431 | Kaohsiung | B | | 22:40 KE 607 | Seoul / ICN | | Cancelled |
| 18:55 CA 441 | Chongqing | B | At gate 18:47 | 20:05 CX 885 | Shanghai | A | Est at 19:53 | 21:55 AF 8075 | Sydney | A | Est at 20:13 | 22:45 OA 4683 | | | Est at 22:26 |
| 18:55 CA 905 | Shanghai | | Cancelled | 20:05 CX 885 | Shanghai | A | Est at 19:59 | 22:00 CX 100 | Sydney | B | Est at 21:17 | | Ho Chi Minh | A | |
| | | | | 20:05 CX 885 | Shanghai | A | Est at 19:59 | 22:00 CX 100 | Sydney | B | Est at 21:17 | | | | |

Time Now 19:14

SPACE FITTING DESIGN

Go beyond conventional LED screens when designing your space

SELECTABLE TWO PRODUCT TYPES ACCORDING TO CUSTOMER NEEDS

The LAPE Series comes in 2 product types which differ in the way the power is installed. The one has a power separated from the LED screen while the other one has an embedded power in the screen. Each has their own distinctive benefits, so customers can choose between two types based on installation environment such as space size, outlet layout, service of points, or etc.



FLEXIBLE LDM

With a specially designed flexible LDM^(LED Display Module), the LAPE series supports true concave and convex curvature up to 1,000R. This greatly amplifies design flexibility, providing users with the ability to create true curved screens for use in interior design or as an immersive screen experience.



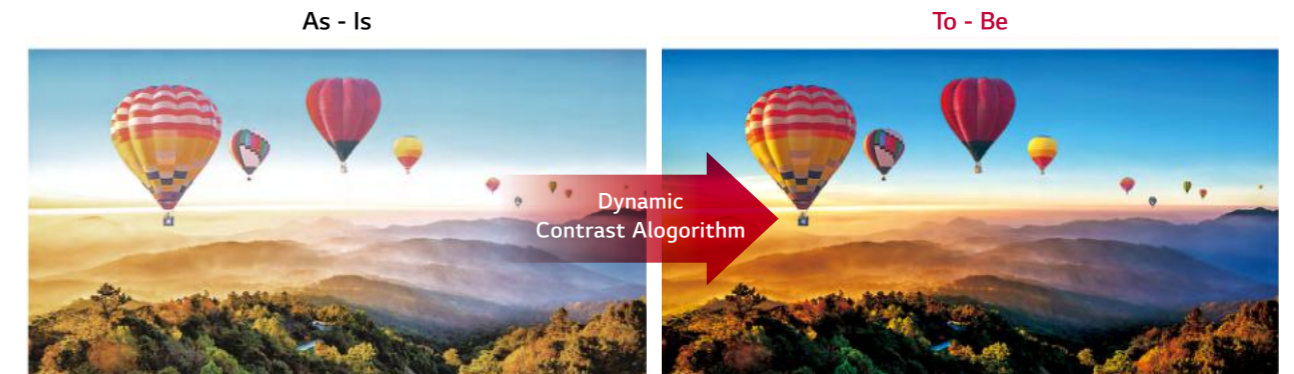
* The "Conventional" shown above refers to an LED screen composed of flat LED unit cases.

SUPERIOR PICTURE QUALITY

Vivid high visual impact

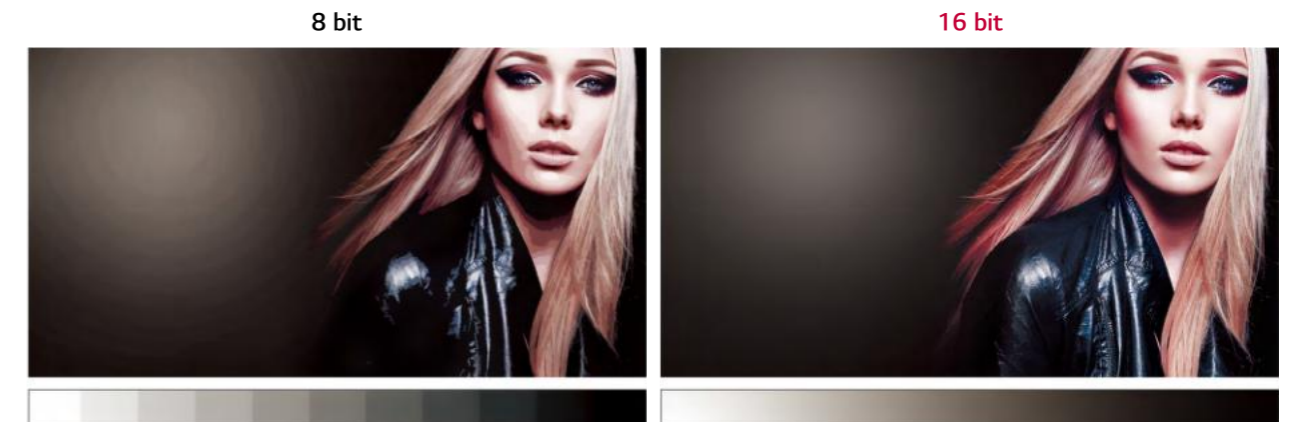
REALISM THROUGH LIFELIKE COLORS

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'.



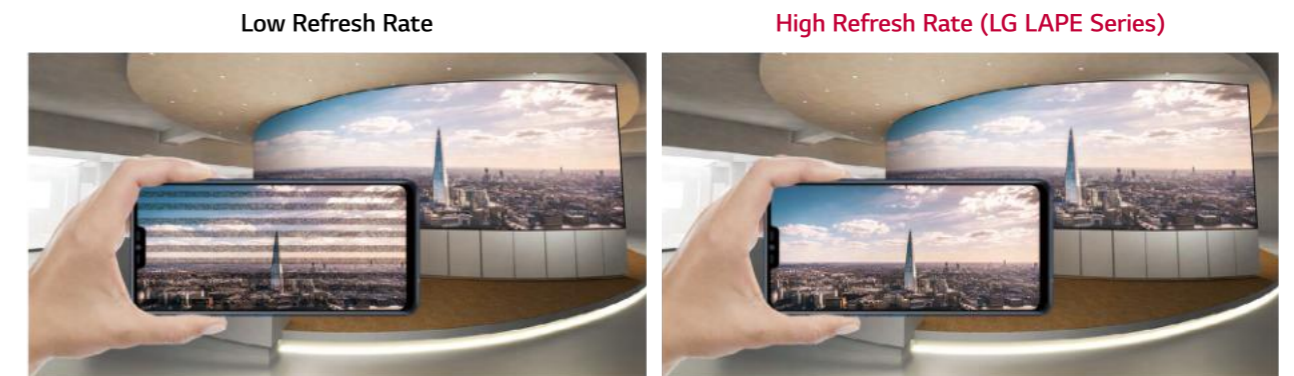
DETAILED EXPRESSION OF COLOR DEPTH

16-bit color processing provides a higher greyscale level, which seamlessly displays different depths and densities of colors without distortion, thereby giving a more realistic and sophisticated content.



SMOOTH PLAYBACK IN DYNAMIC MOTION

Powered by LG's display technology, a high refresh rate of 3,840Hz assures the smooth playback of content. The flicker-free image prevents the black bars that occur from video shooting, as well as eye strain and blurred vision in viewers.



OPERATIONAL EFFICIENCY

Unique architectural platform maximizes efficiency

FLEXIBLE POWER MANAGEMENT

The power supply units (PSU) are separated from the screen, dramatically improving the latter's internal thermal condition. Thanks to the modular power concept design, users can choose the desired brightness of the screen by customizing* the number of PSUs** based on the electrical capacity of the user environment.



* Exclusive to the Remote Power models.

** 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

The LAPE series is designed to support power / signal redundancy (optional), providing users with peace of mind. The power supply units (PSU) support power redundancy, assuring the continuous operation of the screen without power failure, while the dual controllers minimize screen failure with a bi-directional signal input.



* The "Conventional" shown above refers to LED displays which do not support the power/signal redundancy mode.

** Power redundancy is exclusive to the Remote Power models.

PRECISE FHD/UHD SCREEN CONFIGURATION

It has often been difficult to configure a perfect FHD/UHD resolution screen prohibiting native resolution image display. With the LAPE series, this is possible for all model options.

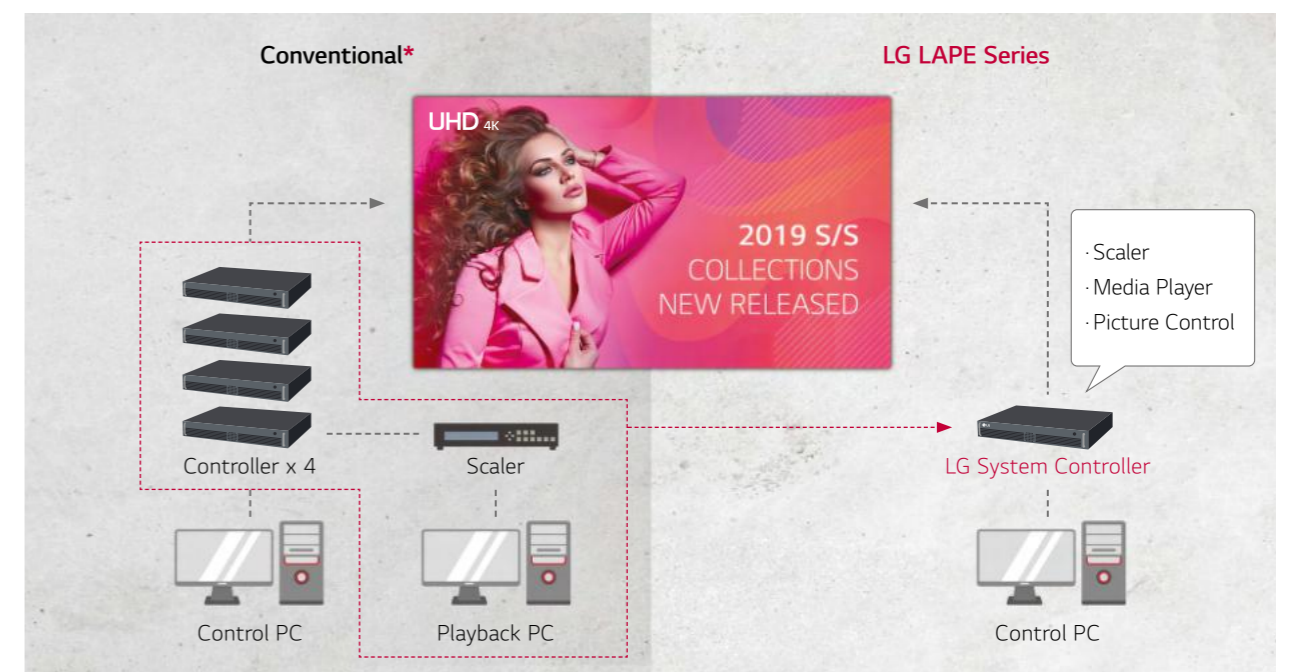


| Pixel Pitch | 1.5mm | 2.0mm | 2.5mm |
|--------------------------|--------|--------|---------|
| Full HD (1,920 x 1,080) | 6 x 3 | 8 x 4 | 12 x 6 |
| Ultra HD (3,840 x 2,160) | 12 x 6 | 16 x 8 | 24 x 12 |

(Unit Case)

SMART HIGH PERFORMANCE SYSTEM CONTROLLER

The LAPE series comes with a versatile 4K system controller, providing simplified system configuration in a high-resolution canvas platform. The controller also has a built-in high performance media player as well as scaler. Additionally, it has LG's exclusive picture control features such as 'Dynamic Contrast' and Power Saving Mode options.



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

OPERATIONAL EFFICIENCY

Unique architectural platform maximizes efficiency

INTUITIVE MANAGEMENT SOFTWARE

LG's new management control software platform 'LED Assistant' provides easy screen management. Screen setting is made simple with a visual guide and all-in-one dashboard that shows the overall status of screen components at a glance.

Visualized Layout

Each Component's Status

Detailed User Guide

Log Report

REAL-TIME 365 CARE SERVICE

The maintenance gets easier and faster with an optional service Signage 365 Care*, a cloud service solution provided by LG service. It remotely manages status of LED displays in client workplaces for fault diagnosis and remote-control services, ensuring the stable operation of a client's business.

Repair

Signage 365 Care

GLOBAL DESIGN
Digital Marketing Conference

Status, Usage Data
Monitoring / Fault Detection

* 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 SCREEN INSTALLATION

Reduce installation complexity

EASY TO HANDLE & INSTALL

Conventional large-sized and heavy cabinet-based installation often results in LED dot defects during installation. The LAPE series breaks free from conventional norms by introducing much smaller and light weight LDM (LED Display Module)-based installation, providing incomparable ease of handling with far less risk of LED dot damage during installation.

Conventional Unit Case

600 x 400 x 75mm

VS

0.36kg

240 x 180 x 10.5mm

LG LAPE Module

EASY SCREEN ALIGNMENT

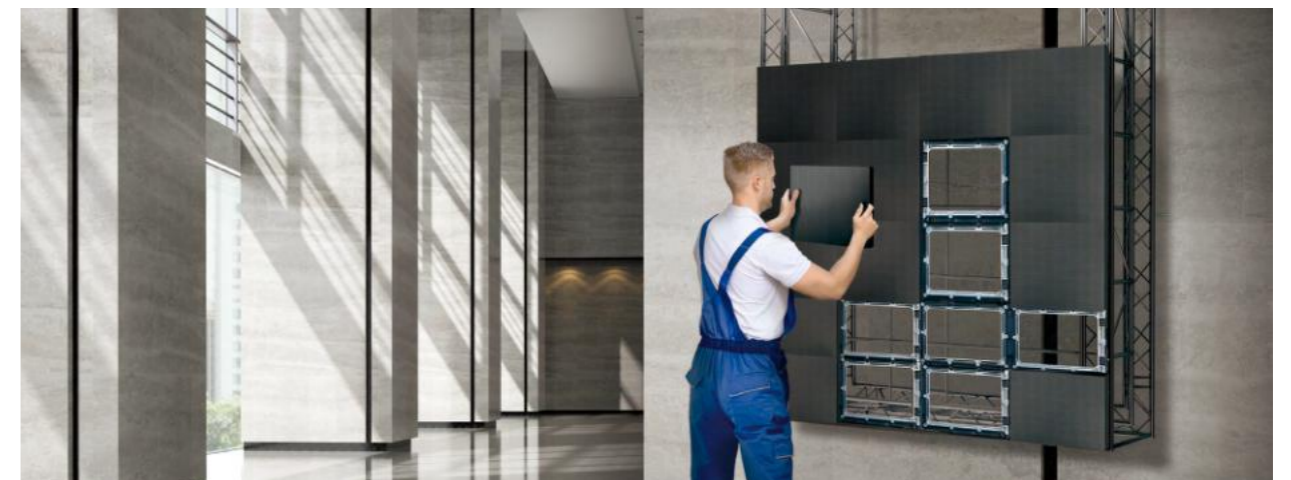
The unit case of the LAPE series has been carefully designed for easy screen flatness alignment. Each LDM has 20 Z-axis alignment points for ultra-fine flatness alignment.

Flat Surface

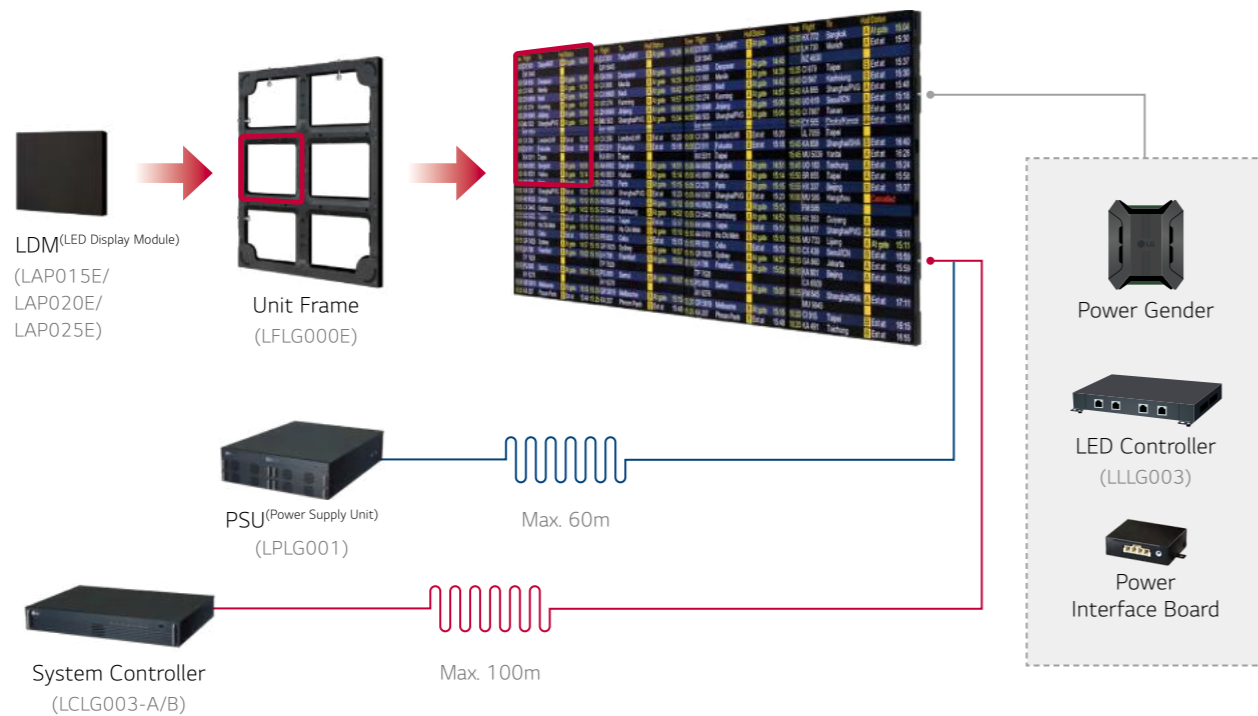
Each LDM has 20 Z-axis alignment points for fine-tuning.

FRONT INSTALLATION & SERVICE

The LAPE series comes with front installation and front service access, freeing users from needing rear access space, as well as a sleek screen design for maximum space optimization.



REMOTE POWER MODELS



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

EMBEDDED POWER MODELS



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

SPECIFICATIONS

| | | LAPE Series | | | | | |
|----------------------|--|--|---------------|---------------|--|---------------|---------------|
| | | Remote Power Model | | | Embedded Power Model | | |
| Model Name | | LAP015E | LAP020E | LAP025E | LAP015EP | LAP020EP | LAP025EP |
| Physical Parameters | Pixel Configuration | 3 in 1 SMD | 3 in 1 SMD | 3 in 1 SMD | 3 in 1 SMD | 3 in 1 SMD | 3 in 1 SMD |
| | Pixel Pitch (mm) | 1.50 | 2.00 | 2.50 | 1.50 | 2.00 | 2.50 |
| | Module Resolution (W x H) | 160 x 120 | 120 x 90 | 96 x 72 | 160 x 120 | 120 x 90 | 96 x 72 |
| | Module Dimensions (W x H, mm) | 240 x 180 | 240 x 180 | 240 x 180 | 240 x 180 | 240 x 180 | 240 x 180 |
| | Weight per Module (kg) | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| | No. of Modules per Unit Case (W x H) | 2 x 3 | 2 x 3 | 2 x 3 | 2 x 3 | 2 x 3 | 2 x 3 |
| | Unit Case Resolution (W x H) | 320 x 360 | 240 x 270 | 192 x 216 | 320 x 360 | 240 x 270 | 192 x 216 |
| | Unit Case Dimensions (W x H x D, mm) | 480 x 540 x 53 | | | 480 x 540 x 105 | | |
| | Unit Case Surface Area (m ²) | 0.260 | 0.260 | 0.260 | 0.259 | 0.259 | 0.259 |
| | Weight per Unit Case (kg/unit) | 6.0 | 6.0 | 6.0 | 10.1 | 10.1 | 10.1 |
| | Weight per Square Meter (kg/m ²) | 22.2 | 21.8 | 21.3 | 38.4 | 38.0 | 37.4 |
| | Physical Pixel Density (pixels/m ²) | 444,444 | 250,000 | 160,000 | 444,444 | 250,000 | 160,000 |
| | Flatness of Unit Case (mm) | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.2 |
| | Unit Case Material | Die Casting Aluminum | | | | | |
| Service Access | Front and Rear | | | | | | |
| Optical Parameter | Min. Brightness (After Calibration) | 1,000 ¹⁾ cd/m ² | | | 700 cd/m ² | | |
| | Color Temperature | 3,200 - 9,300 | 3,200 - 9,300 | 3,200 - 9,300 | 3,200 - 9,300 | 3,200 - 9,300 | 3,200 - 9,300 |
| | Visual Viewing Angle (Horizontal) | 160° | 160° | 160° | 160° | 160° | 160° |
| | Visual Viewing Angle (Vertical) | 140° | 140° | 140° | 140° | 140° | 140° |
| | Brightness Uniformity | 95% | 95% | 95% | 95% | 95% | 95% |
| | Color Uniformity | ±0.015Cx, Cy | ±0.015Cx, Cy | ±0.015Cx, Cy | ±0.015Cx, Cy | ±0.015Cx, Cy | ±0.015Cx, Cy |
| | Contrast Ratio | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 |
| Electrical Parameter | Processing Depth (bit) | 16 (HDR10) | 16 (HDR10) | 16 (HDR10) | 16 (HDR10) | 16 (HDR10) | 16 (HDR10) |
| | Power Consumption (W/Unit, Max.) | 318 | 285 | 143 | 200 | 187 | 99 |
| | Power Consumption (W/Unit, Avg.) | 130 | 104 | 52 | 67 | 52 | 26 |
| | Power Consumption (W/m ² , Max.) | 1,225 | 1,100 | 550 | 770 | 720 | 380 |
| | Power Supply (V) | 100 to 240 | 100 to 240 | 100 to 240 | 100 to 240 | 100 to 240 | 100 to 240 |
| | Frame Rate (Hz) | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 |
| | Refresh Rate (Hz) | 3,840 | 3,840 | 3,840 | 3,840 | 3,840 | 3,840 |
| Operation Conditions | Lifetime (Half Brightness, hrs) ²⁾ | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 |
| | Operating Temperature (°C) | 0°C to + 40°C | 0°C to + 40°C | 0°C to + 40°C | 0°C to + 40°C | 0°C to + 40°C | 0°C to + 40°C |
| | Operating Humidity | 10-80% RH | 10-80% RH | 10-80% RH | 10-80% RH | 10-80% RH | 10-80% RH |
| Certification | EMC | FCC Class A / CE / KC | | | | | |
| | Environment | RoHS | RoHS | RoHS | RoHS | RoHS | RoHS |
| Controller | | LCLG003-A | LCLG003-A | LCLG003-B | LCLG005-A | LCLG005-A | LCLG005-B |
| | | LCLG003-A | LCLG003-A | LCLG003-B | LCLG005-A | LCLG005-A | LCLG005-B |
| Connectivity | Video Inputs | HDMI In, DP In, OPS In, USB | | | HDMI In, DP In, OPS In, USB | | |
| | Control | RJ45 In, RS232C In/out | | | RJ45 In, RS232C In/out | | |
| | Special Features | HDR10, Temperature Sensor, Power Detection ADA Compliant, PSU Hot Swappable | | | HDR10, Temperature Sensor, Power Detection | | |
| Optional Accessory | ACC-LAPPC06(DC PSU Cable 6m), ACC-LAPPC60(DC PSU Cable 60m) | | | | N/A | | |

* Specifications are subject to change without notice.

** LED package with goldwire.

1) Brightness can be reduced (up to 300nit) by the number of PSU modules, thereby decreasing power consumption.

2) The Lifetime(Half brightness) spec is subject to LED package spec.