LG | Business Solutions

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

Transparent Color LED Film LTAK Series

Bring New Life to Transparent Space

- Superb Transparency
- Self Adhesive
- Easy Expandability
- Enhanced Brightness
- Product Reliability

LTAK140-GU1

|	
Pixel Pitch	13.7 ± 0.2 mm (14)
LED Type	R, G, B 3 in 1 Color Package (SMD0909)
Brightness	1,000 nits (typ.)
Transmittance	60% (Typ.)
Curvature (Concave and Convex)	2,000R

ON

OFF

Superb Transparency

The LG Transparent Color LED film shows objects behind the glass even when the film is attached to the glass and turned off. This offers a wide-open view while blending into existing interior design smoothly and delivers various information effectively. In addition, LG has actually reduced the size of the individual LED packages for the LTAK series, providing improved transmittance over the previous LG model (LAT Series).
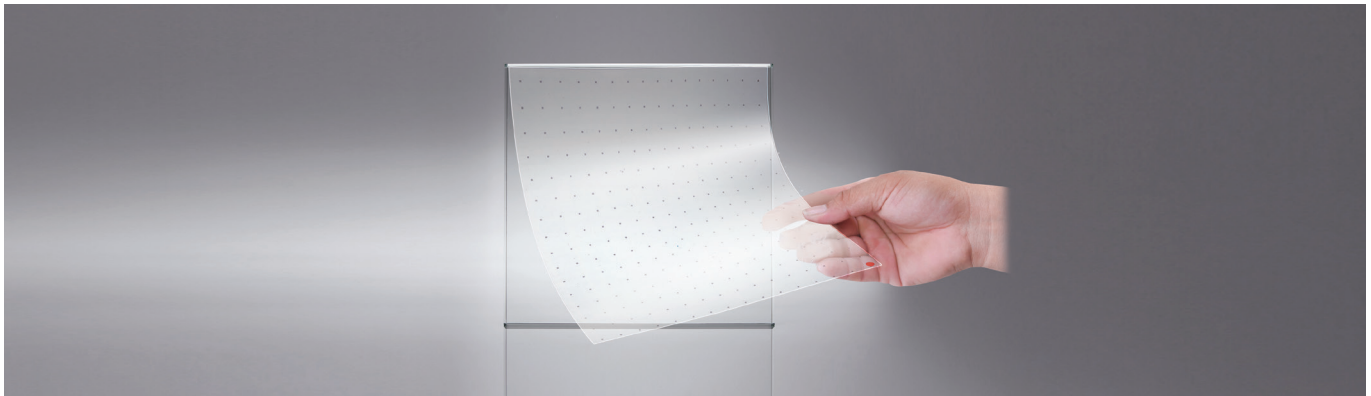
Self-adhesive Film

The LTAK Series is self-adhesive, so it can be easily attached to the surfaces of existing window glass without the need for any expensive replacement.*

* Installation conditions may vary depending on the performance environment.

Vertical   Horizontal   Film Trimming
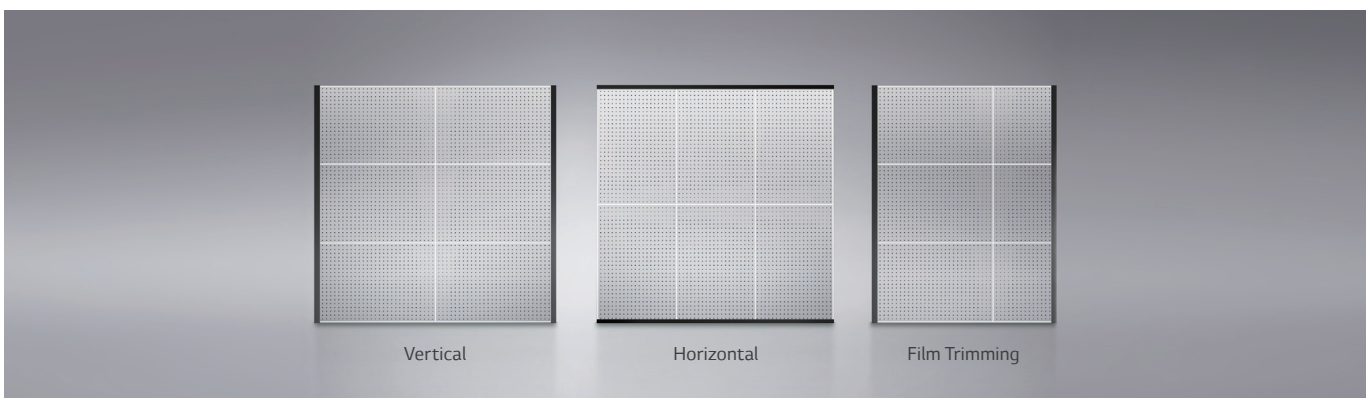
Outstanding Expandability and Flexibility

The size and layout of the film can be customized to fit into the installation area. It can be expanded by adding more films in a vertical or horizontal way, or cut in parallel with the bezel to meet size requirements.

webOS Smart Platform

LG webOS is a web-centric platform, making it easier for system integrators and developers to build web-based solutions according to various environments. By supporting the Signage Common Application Platform (SCAP) and compatibility with HTML, CSS, and JavaScript, developers can efficiently create virtually any solution for their customers.
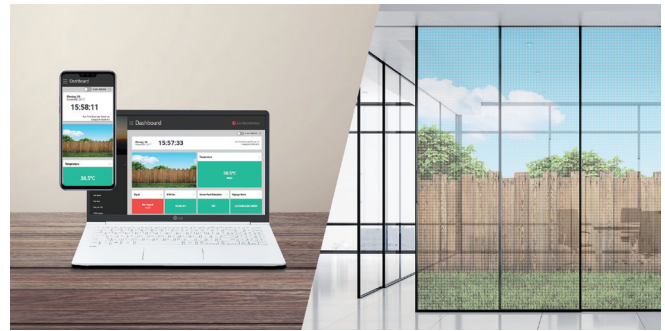
Control Manager

Through the internet-connected control manager, you can set, control contents and monitor the status of multiple displays in different locations in real time. This is especially useful for LG Transparent Color LED film installed over a large area, because the control manager makes it easy to play and check content.


Real-time LG ConnectedCare Service

Powered by LG's high performance system controller, the LSAC series is compatible with LG software solutions including SuperSign CMS, LED Assistant, and ConnectedCare, which help customers have even more control over their systems.*

* LG ConnectedCare and LG SuperSign CMS are each sold separately. Actual user interface may very in different webOS versions.

COMPONENTS & SYSTEM CONNECTION

Components
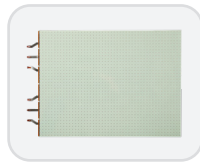
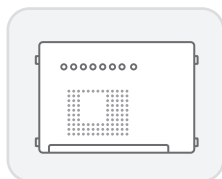| 1. LED Film | 2. Bezel Kit | 3. Power Adapter | 4-1. Unit Controller | 4-2. System Controller | 5. One Box Controller |

* The required amount of components vary depending on the screen size.
* One Box Controller can replace Unit Controller and System Controller or installations of fewer than 75 sheets of film.
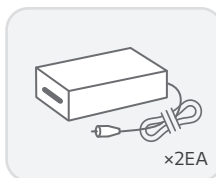
System Connection

① Install more than 75 sheets of LTAK film

System Controller

Unit Controller
(Supports up to ¼ FHD)

② Install up to 75 sheets of LTAK film
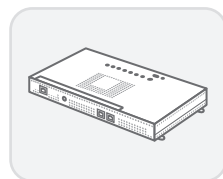
One Box Controller
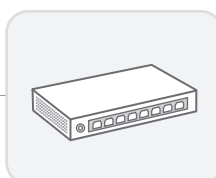
Power Adapter
×2EA

Ethernet Switch
(Optional)

Power Adapter

LED Film
Bezel kit

① Assemble bezel kit on both sides
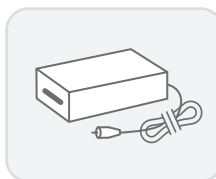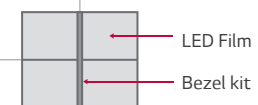
② Assemble bezel kit in the center

LED Film
Bezel kit

* The actual system structure may be subject to change from the above example.

SPECIFICATIONS

LTAK140-GU1

Pixel Pitch	13.7 ± 0.2 mm (14)
LED Type	R, G, B 3 in 1 Color Package (SMD0909)
Resolution	48 × 36
Pixels per Panel	1,728
Pixel Density	5,102 pixels/m²
Brightness	1,000 nits (Typ.)
Contrast Ratio	≥ 100,000: 1
Luminance Uniformity	≥ 70%
Viewing Angle (H × V)	120° × 120°
Daily Usage	24 Hours / 7 Days
Transparency	60% (Typ.)
Operating Temperature	32°F ~ 113°F / 0°C ~ 45°C (Installing at Indoor Glass)
Curved Installation	2,000R (Concave and Convex available on Glass)
Film Trimming	Yes (cut parallel to Bezel only)
Color Processing	(9 bit) 500 / 500 / 500 Level (R, G, B)
Colors	125,000,000 Colors
Color Chromaticity	Cx: 0.25 ± 0.03, Cy: 0.33 ± 0.03
Dimension (W × H × D)	25.8 x 19.4 x 0.1 in / 655 × 492 × 2.6 mm (with Front & Back Protection Film)
Weight	2.0 lbs / 0.9 kg
Power Consumption	75 W per sheet of film
Warranty	3 Year Limited

1st Bezel Kit	ACC-LTAK14W1
Dimensions (W × H × D)	2.7 x 19.4 x1.0 in / 69.4 × 492 × 25 mm
Weight	0.9 lbs / 0.4 kg

Common Bezel Kit	ACC-LTAK14W2
Dimensions (W × H × D)	2.0 x 19.4 x1.0 in / 51.4 × 492 × 25 mm
Weight	0.7 lbs / 0.3 kg

Power (Bezel Kit & LED Film)	ACC-LATP1
Dimensions	7.2 x 3.4 x 1.1 in / 183 × 86 × 28 mm
Weight	1.7 lbs / 769 g
Input	100~240 V, 50~60 Hz
Output	19.5 V / 10.8 A (210 W)
Color	White
DC Output Cable	14 AWG, 1.5 m
Type	L Type

Unit Controller	LCLG141U
Resolution	960 × 540 (1/4 FHD)
Interface	Input: LVDS Output: RJ45 × 4 ea
Maximum Transmission Length	100 m (Cable Type: CAT5E, CAT6)
Dimensions (W × H × D)	11.5 x 7.4 x 1.5 in / 293 × 188.7 × 37 mm
Weight	3.3 lbs / 1.5 kg
Power Consumption	20 W

System Controller	LCLG002-T
Video	DP: 1,920 × 1,080 @ 60 Hz HDMI: 1,920 × 1,080 @ 60 Hz DVI-D: 1,920 × 1,080 @ 60 Hz
Input	HDMI, DP, DVI-D, RS-232C (Phone Jack Type), RJ45, IR Receiver, USB 3.0
Output	DP, RS-232C (Phone Jack Type), RJ45, LVDS
Dimensions (W × H × D)	11.5 x 7.6 x 1.6 in / 293 × 193.3 × 40.1 mm
Weight (Head)	3.5 lbs / 1.6 kg
Temperature Sensor / Light Sensor	Yes / Yes
Source Selection	HDMI, DVI-D, DP
TPC (Temporal Peak Luminance Control)	Yes
Power Consumption	17 W
CMS S/W	Yes (2.9)
Accessories	Power Cord, IR+Bright Sensor (1.5 m), 4P Phone to RS-232C Adapter, ESG, Regulation Book, Warranty Card
Warranty	3 Year Limited

One Box Controller	CTAA-140G
Video	HDMI: 1,920 × 1,080 @ 60 Hz
Input	HDMI, RS-232C (Phone Jack Type), RJ45, IR Receiver, USB 3.0
Output	RS-232C (Phone Jack Type), RJ45 (2)
Dimensions (W × H × D)	13.1 x 7.4 x 1.6 in / 333 × 186.8 × 40.1 mm
Weight (Head)	4.0 lbs / 1.82 kg
Temperature Sensor / Light Sensor	Yes / Yes
TPC (Temporal Peak Luminance Control)	Yes
Power Consumption	30 W
CMS S/W	Yes (3.0)
Accessories	Power Cord, IR+Bright Sensor (1.5 m), 4P Phone to RS-232C Adapter, ESG, Regulation Book, Warranty Card
Warranty	3 Year Limited

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

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