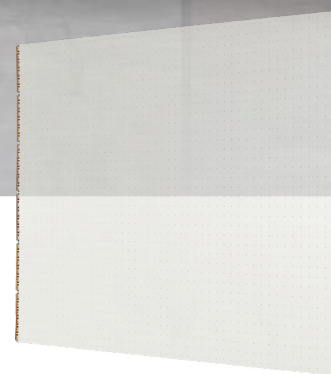






* All images in this datasheet are for illustrative purposes only.





Transparent LED Film LTAK140-GU


Bring New Life to Transparent Space

- 

Superb Transparency
- 

Self Adhesive
- 

Easy Expandability
- 

Enhanced Brightness
- 

Product Reliability

LTAK140-GU

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



Superb Transparency

The LG Transparent LED film reflects the object behind the product even after the product is attached and turned off. This offers a wide-open view while blending into existing interior design smoothly and delivers various information effectively by attracting the attention of passersby. And, thanks to the shrinking size of LED package in LTAK140-GU, the transparent display has become even more transparent, providing an enhanced customer experience.

* Transparency : Typ. 60%

* The above image is for illustrative purposes only and may be different from the actual product.

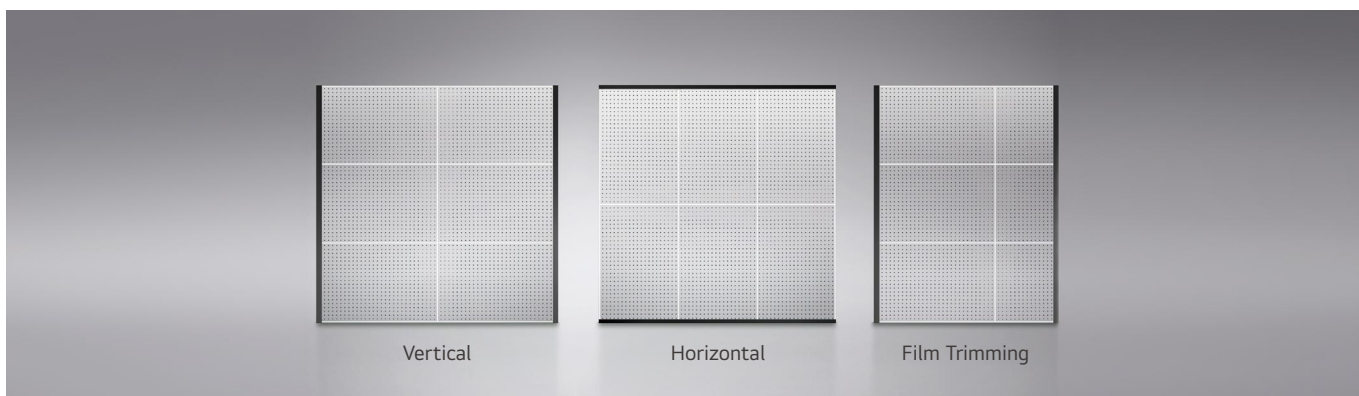


Self-adhesive Film

The LG Transparent LED film is self-adhesive, so it can be easily attached to the surfaces of existing window glass without the need for any complicated construction.

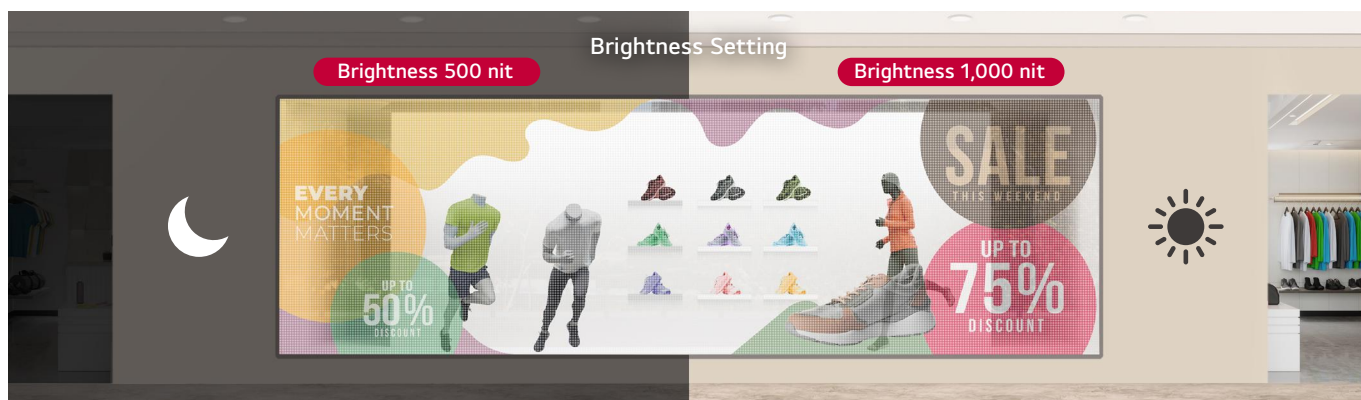
* The above image is for illustrative purposes only and may be different from the actual product.

* Installation may be challenging depending on the installation and performance environment.



Outstanding Expandability and Flexibility

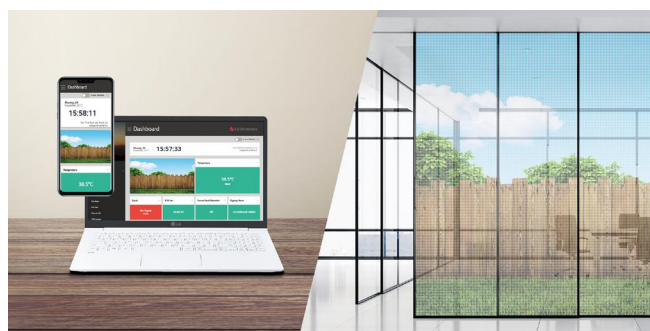
The size and layout of the film can be customized to fit into the installation area. It can be expanded by adding more films in a vertical or horizontal way, or cut in parallel with the bezel to meet size requirements.



Enhanced Brightness and Control

The LED film with smaller pixel pitch, 14mm, and advanced brightness of up to 1,000nit(cd/m²)* attracts the attention of passersby while displaying a wide range of colors. Also, by using Control Manager solution, you can adjust and set brightness by timeline to deliver messages with optimal brightness.

- * The examined brightness may differ from testing environments including a photometer.
- * The above image is for illustrative purposes only and may be different from the actual product.
- * Control Manager Solution is included in webOS basically.



webOS Smart Platform

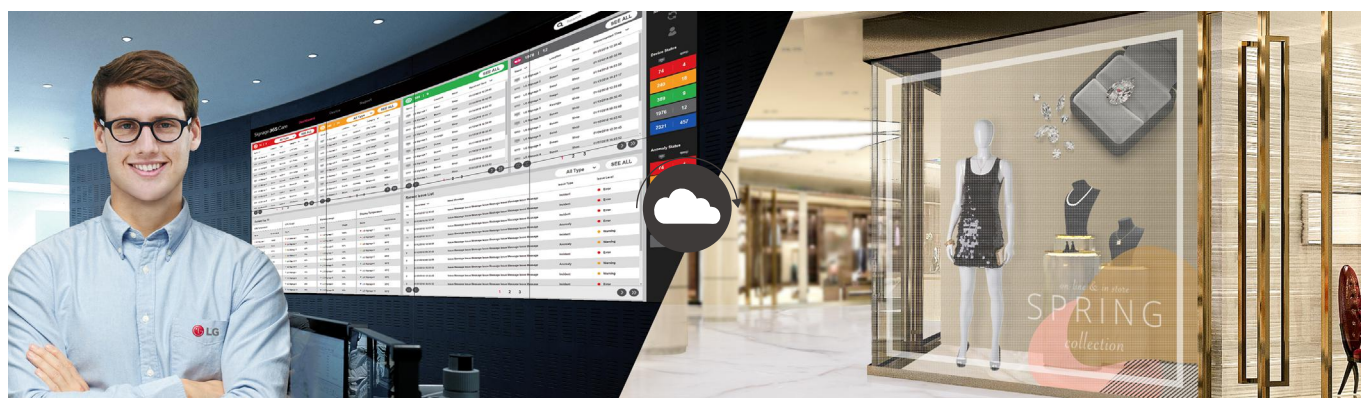
LG webOS is a web-centric platform, making it easier for SIs and developers to build web-based solutions according to various environments. By supporting SCAP and compatibility with HTML, CSS, and JavaScript, you can save time and labor costs.

- * webOS API will be provided to authorized SIs and developers.
- * SCAP : Signage Common Application Platform. API interface service for SIs.
- * CSS : Cascading Style Sheets

Control Manager

Through the Control Manager, available on internet-connected devices, you can set, control contents and monitor the status of multiple displays in different locations in real time. Especially for LG Transparent LED film installed on large area, the Control Manager helps you to play and check contents in easier way.

- * Up to 75 units of T-LED Films are recommended to be connected to each(one) LAN OUT port in a controller.



Real-time LG ConnectedCare Service

Maintenance is easy and fast with the optional LG ConnectedCare* service, a cloud service solution provided by LG. It remotely manages the status of displays in client workplaces for fault diagnosis and remote-control services, supporting the stable operation of clients' businesses.

- * The availability of the 'LG ConnectedCare' service differs by region, and it needs to be purchased separately. So please contact the LG sales representative in your region for more details.

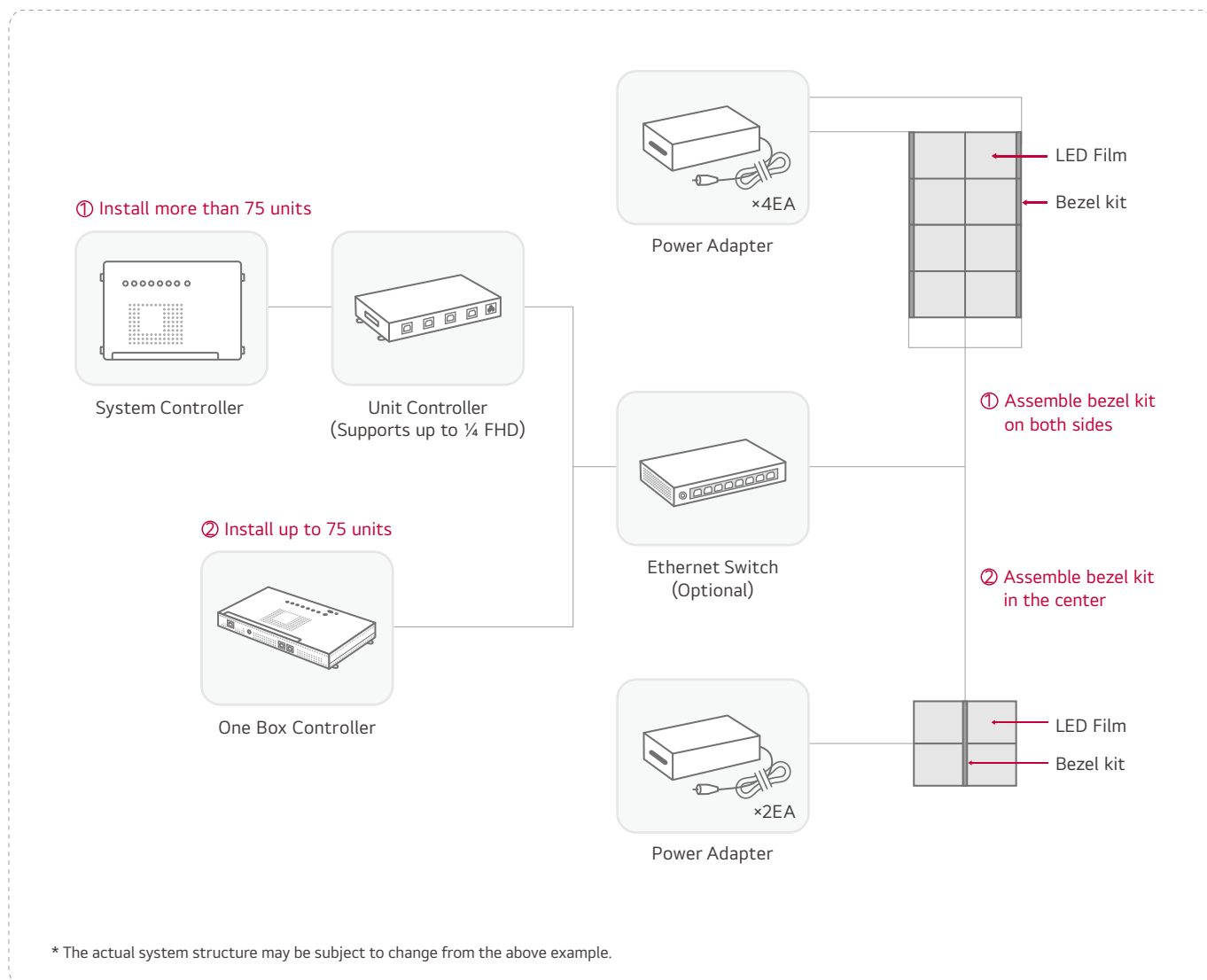
COMPONENTS & SYSTEM CONNECTION

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 when install within 75 sheets of film.

System Connection



SPECIFICATIONS

LED Film

LTAK140-GU

Pixel Pitch	13.7 ± 0.2 mm (14)
LED Type	R, G, B 3 in 1 Color Package
Resolution	48 × 36
Pixels per Film	1,728
Physical Pixel Density	5,102 pixels/m ²
Brightness	1,000 nit (Typ.)
Space Luminance	1,100 nit (Typ.)
Contrast Ratio	≥ 100,000 : 1
Luminance Uniformity	≥ 70%
Chromaticity Uniformity	≤ 0.015
Viewing Angle (H × V)	120 × 120
Lifetime (Brightness 50%)	50,000 Hrs
Daily Usage	24 Hours / 7 Days
Warranty	2 Year
Transparency	60% (Typ.)
Operating Temperature	0°C - 45°C (Installing at Indoor Glass)
Curved Installation	2,000 R (Concave and Convex Available on Glass)
Film Trimming	Yes (Horizontal Direction According 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 : 0.30 ± 0.03
Dimension (W × H × D)	655 × 492 × 2.6 mm (with Front & Back Protection Film)
Weight	0.9 kg
Power Consumption	75 W per Film

1st Bezel

ACC-LTA14U1

Interface	Input : RGMI, Output : Differential Serial
Dimension (W × H × D)	69.4 × 492 × 25 mm
Weight	0.4 kg
Power Consumption	75 W per Film
Accessory	DC Jack Connection Cable (1,100 mm), DC Jack Connection Cable (240 mm), Screw 2 Type, Gasket Rubber 3 Type, Cable Hole Cover 1 Type, ESG, Regulation Book, Warranty Card

Common Bezel

ACC-LTA14U2

Interface	Input : Differential Serial, Output : Differential Serial
Dimension (W × H × D)	51.4 × 492 × 25 mm
Weight	0.3 kg
Power Consumption	75 W per Film
Accessory	DC Jack Connection Cable (240 mm) 2 ea, Screw 2 Type, Gasket Rubber 2 Type, Cable Hole Cover 2 Type, ESG, Regulation Book, Warranty Card

Adaptor

ACC-LATP1

Dimension (W × H × D)	183 × 86 × 28 mm
Weight	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
Accessory	Power Cord, Regulation Book

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)
Dimension (W × H × D)	293 × 188.7 × 37 mm
Weight	1.5 kg
Temperature Sensor	Yes
Power Consumption	20 W
Accessory	Power Cord, LVDS MCX Cable, ESG, Regulation book, Warranty Card

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 (without LED Indicator), IR Receiver, USB 3.0
Output	DP, RS-232C (Phone Jack Type), RJ45 (without LED Indicator), LVDS
Dimension (W × H × D)	293 × 193.3 × 40.1 mm
Weight (Head)	1.6 kg
Temperature Sensor / Light Sensor	Yes / Yes
Source Selection	HDMI, DVI-D, DP
TPC (Temporal Peak Luminance Control)	Yes
Motion Eye Care	Yes
Power Consumption	17 W
CMS S/W	Yes (2.9)
LG ConnectedCare	Yes (2.7)
Accessory	Power Cord, IR+Bright Sensor (1.5 m), 4P Phone to RS-232C Gender, ESG, Regulation Book, Warranty Card

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)
Dimension (W × H × D)	333 × 186.8 × 40.1 mm
Weight (Head)	1.82 kg
Temperature Sensor / Light Sensor	Yes / Yes
TPC (Temporal Peak Luminance Control)	Yes
Motion Eye Care	Yes
Power Consumption	30 W
CMS S/W	Yes (3.0)
Signage365Care	Yes (2.7)
Accessory	Power Cord, IR+Bright Sensor (1.5 m), 4P Phone to RS-232C Gender, ESG, Regulation Book, Warranty Card

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



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