

Transparent Color LED Film LAT140

Bring New Life to Transparent Space



Superb Transparency



Self Adhesive



Easy Expandability









A NATURAL BLEND WITH SPACE



Superb Transparency

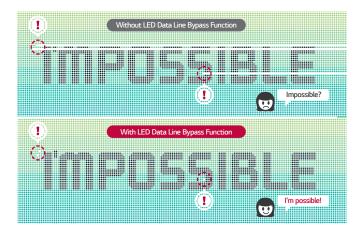
The LG Transparent Color LED Film, which connects each pixel with a thin metal mesh, allows a clear view of the objects behind the product. This maintains a wide-open view while blending smoothly into the existing interior design. Once turned on, the product delivers a stunning, attention-grabbing display across the entire surface where the film has been applied.

EYE-CATCHING CONTENT DISPLAY



Enhanced Brightness and Control

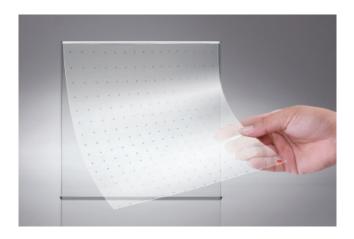
The LED film with smaller pixel pitch (14mm) than its predecessor, and advanced brightness of up to 2,100 nits attracts the attention of passersby while displaying a wide range of colors. Also, the Control Manager solution allows brightness to be set and adjusted by time-of-day to deliver messages with optimal brightness.



Data Lines with Bypass Function

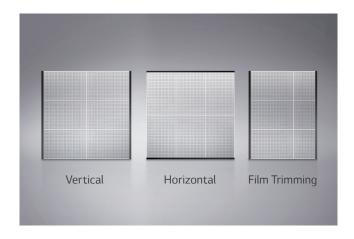
The 14mm transparent LED film consists of LED chips connected with additional bypass data lines. So even if an error occurs with an LED chip, the impact is reduced on the other chips placed in the same row. This new function helps you show text, images, and videos as clearly and reliably as possible.

EASY SPACE INNOVATION



Self-adhesive Film

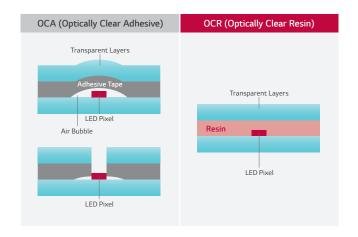
The LG Transparent Color LED film is self-adhesive, so it can be easily attached to the surfaces of existing window glass without the need for any complicated construction.



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-to-size in parallel with the bezel to meet installation requirements.

RELIABLE PRODUCT QUALITY & EYE CATCHING CONTENT DISPLAY



OCR (Optically Clear Resin) Direct Bonding

The LG Transparent Color LED film, which uses the OCR bonding method, protects LED pixels stably by fully filling the gap between transparent layers. Compared to OCA (Optically Clear Adhesive) method, which usually perforates the upper layer above each LED pixel to prevent uneven surface and scattered reflection, the LAT140 fully encases the pixels resulting in improved durability and flat surface*.

*This is based on the internal comparison test between OCR and OCA with perforations of the upper transparent layer under the condition of -10° to 45° temperature and 0 to 30% humidity.



Enhanced Brightness and Control

The transparent LAT140 has a small 14mm pixel pitch and 2100 nits per square meter brightness* that attract the attention of passersby while displaying a wide range of information. Also, LG's Control Manager allows you to adust and set brightness based on time of day to deliver messages to your viewers without being too bright at night or washed out during the day.

^{*} The examined brightness may differ from testing environments including a photometer.

SMART LED SIGNAGE



webOS Smart Platform with Open API

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 open API and compatibility with HTML, CSS, and JavaScript, you can save time and effort creating awesome content.



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. This especially useful for Transparent Color LED Film installed on a larger area, where Control Manager helps you to play and review contents more easily.



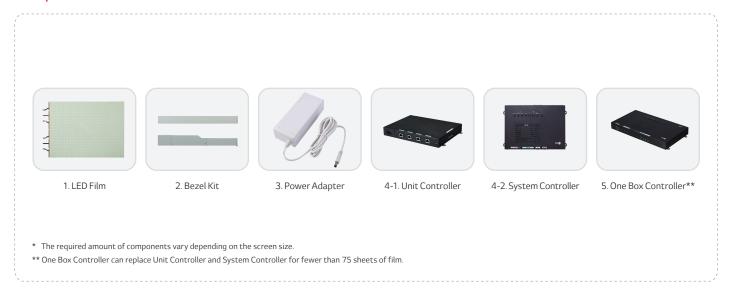
Real-time 365 Care Service

Maintenance gets easier and faster with an optional cloud service from LG we call Signage365Care*. This service remotely manages status of LG displays throughout client work locations monitoring fault diagnosis and remote-control services, enabling stable operation and smooth service of maintenance issues.

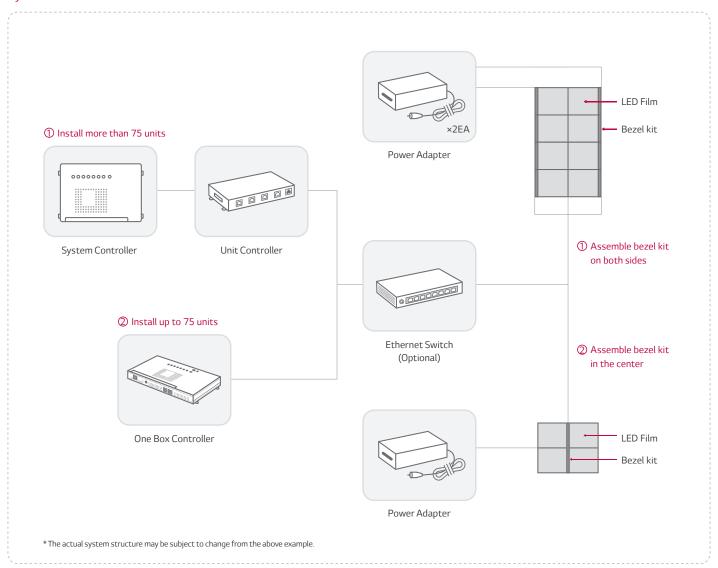
 $[\]star$ The availability of "Signage365Care" service can differ by region, so please contact the LG sales representative in your region for further details.

COMPONENTS & SYSTEM CONNECTION

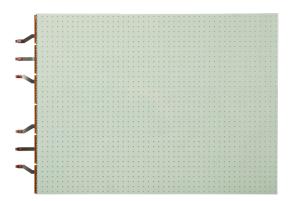
Components*



System Connection



PRODUCT INFORMATION

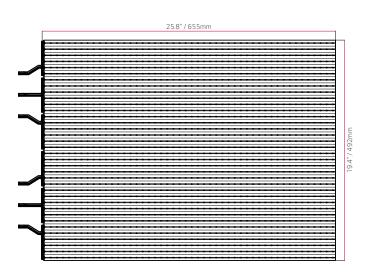


LAT140

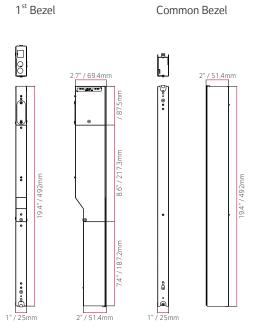
Pixel Pitch	14 mm	
LED Type	3 in 1 SMD	
Brightness	2,100 nits/m² (Typ.)	
Transmittance	53%	
Curvature (Concave and Convex)	2,000R	

DIMENSIONS





Bezel Kit



SPECIFICATIONS

Pack Pisto	LED FILM	MODEL			LAT140GT83
1879 1970					
Prescription 1.728 1.728 1.728 1.728 1.729					
Plack per Port					
Peel Density S10/2 problem?			ρ		
Page					
Convenience (particularity 100,000 1 1 1 1 1 1 1 1 1			m)		
Laminate billiority 8.70%					·
Convenience Authority Convenience Authority Convenience Authority Authority					The state of the s
Memory April (91 xV) 120" x 120"					
Lifetime (Enginteres SON) SOLOOD His			•		
Puly Usage					
Womany			101033 3070)		·
Tapesparrow Tapesparrow 37 F p. 138					
Decreasing Representative 32°F to 13°F (OF to 45°C					
File Trimming			norature		
Color Processing Color Special (State) 125 Miller (Color)			•		
Color 175 Million Colors					
Color Chromaticity			ng		
Dimensions (W. H. N. D) (includes from 8. back protection film) 258 x 194 x 0.11 in / 855 x 492 x 2.7 mm Verying 2.18 x 1.19 x 1.19 19			ticity.		
Merglat					
Power Consumption (Transparent panel 16A + Common Bezel lot 2EA) 37 W			v x H x D) (includes i	ront & back protection nim)	
MODE				1.1EA . C B I 2.EA	-
Interface Impact RSMIII / Cutypts: Prince Interface Impact RSMIII / Impact RSMII	FIDCT DEZEL		nption (Transparent	pariet TEA + Common Bezet kit ZEA)	
Damessons (W x H x D)	FIRST BEZEL				
Weight			V II D)		
Power Consumption (Transparent panel + First & Common Bezel kits) ACC-LALTR2			V x H x D)		
MODE					-
Interface	COLUMN DETER				
Demensions (W x H x D)	COMMON BEZEL				
Weight					· · · · · · · · · · · · · · · · · · ·
Power Consumption (Transparent panel + 2 Common Bezel kits) 37 W			V x H x D)		
NOTE MoDEL Separation 960 x 540 (1/4 FHD)					-
Resolution			nption (Transparent	panel + 2 Common Bezel kits)	
Interface	UNIT CONTROLLER				
Maximum Transmission Length (CATSE, CAT6) 100 m Dimensions (W x H x D)					
Dimensions (W x H x D)		Interface			Input: LVDS / Output: RJ45 x4EA
Weight Temperature Sensor Yes Yes		Maximum Tran	nsmission Length (CA	AT5E, CAT6)	100 m
Temperature Sensor Yes 20 W		Dimensions (V	V x H x D)		11.5 x 1.5 x 7.4 in / 293 x 37 x 188.7 mm
Power Consumption 20 W SYSTEM MODEL Max. Input Resolution DP: 1920x1080@60Hz / IDMI: 1920x1080 / IDMI: 192		Weight			3.3 lbs / 1.5 kg
MODEL Video Max. Input Resolution DP: 1920x1080@60Hz / HDMI: 1920x1080@60Hz / DVI-D: 1920x1080@60Hz DVI-D: 1920x1080#E DVI-D: 1920x1		Temperature S	ensor		Yes
Video		Power Consun	nption		20 W
Wash right resolution DP-1920X1080@00192 7 0V1-D-1920X1080@00192 10 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MODEL			LCLG002
Digital (w/ HDCP)	CONTROLLER	Video		Max. Input Resolution	DP: 1920x1080@60Hz / HDMI: 1920x1080@60Hz / DVI-D: 1920x1080@60Hz
DVI-D In Yes (x1) RS-232C 3.5mm (x1 In, x1 Out) Yes (x1					Yes (x1)
RS-232C 3.5mm (x1 ln, x1 Out)				DP	Yes (x1 In, x1 Out)
Connectivity Comm. Port RJ-45 Yes (x1 ln, x1 Out) (without LED indicator)		Connectivity		DVI-D In	Yes (x1)
Comm. Port RO-HS Comm. Port RO-HS Receiver (w/ Light Sensor) Res (x1)				RS-232C	3.5mm (x1 ln, x1 Out)
Comm. Port IR Receiver (w/ Light Sensor) (without LED indicator)				RI-45	
IR Receiver (W. Light Sensor)				1.5	, , ,
USB3.0 Yes (x1) LVDS Out				IR Receiver (w/ Light Sensor)	
LVDS Out Yes (x1)			I ICB3 U	I.	
Dimensions (W x H x D)					
Weight (Head) 3.5 lbs / 1.6 kg Temperature Sensor Yes Light Sensor Yes Source Selection HDMI, DVI-D, DP TPC (Temporal Peak luminance Control) Yes Motion Eye Care Yes Power Consumption 17W LG CMS (optional paid software) Yes LG Signage365care (optional paid service) Yes ADAPTER ACC-LATP1 Dimensions (W x H x D) 7.2 x 3.4 x 1.1 in / 183 x 86 x 28 mm Weight 1.7 lbs / 0.769 kg Input 100 to 240 Vac, 50-60Hz Output 19.5V/10.8A (210W) Color White DC output cable 14AWG, 1.5m		Dimensions (V	1		
Temperature Sensor		-			
Light Sensor Yes Source Selection HDMI, DVI-D, DP TPC (Temporal Peak luminance Control) Yes Motion Eye Care Yes Power Consumption 17W LG CMS (optional paid software) Yes LG Signage365care (optional paid service) Yes ADAPTER MODEL ACC-LATP1 Dimensions (W x H x D) 7.2 x 3.4 x 1.1 in / 183 x 86 x 28 mm Weight 1.7 lbs / 0.769 kg Input 100 to 240 Vac, 50-60Hz Output 19.5V/10.8A (210W) Color White DC output cable 14AWG, 1.5m			*		-
Source Selection			DC11201		
TPC (Temporal Peak luminance Control) Yes Motion Eye Care Yes Power Consumption 17W LG CMS (optional paid software) Yes LG Signage365care (optional paid service) Yes ADAPTER MODEL Dimensions (W x H x D) 7.2 x 3.4 x 1.1 in / 183 x 86 x 28 mm Weight 1.7 lbs / 0.769 kg Input 100 to 240 Vac, 50-60Hz Output 19.5V/10.8A (210W) Color White DC output cable 14AWG, 1.5m					
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Output 19.5V/10.8A (210W) Color White DC output cable 14AWG, 1.5m					
Color White DC output cable 14AWG, 1.5m					· ·
DC output cable 14AWG, 1.5m					· ·
Туре					
		Туре			L Type

SYSTEM + UNIT CONTROLLER	MODEL			CTAA-140G (SYSTEM + UNIT SINGLE BOX CONTROLLER)
	Resolution			480 x 270
	Maximum Transmission Length (CAT5E, CAT6)			100 m
				13.1 x 7.4 x 1.6 in
	Dimensions (W x H x D)			333 x 186.8 x 40.1 mm
	Weight			4.0 lbs. / 1.82 kg
	Video Max. Input Resolution (HDMI)			1920 x 1080 @60Hz
	Video Decoding			TBD
		Digital (w/ LIDCD)	HDMI In	Yes (x1)
		Digital (w/ HDCP)	RS-232C In	3.5 mm (x1)
			RS-232C Out	3.5 mm (x1)
			RJ-45 In	Yes (x1)
	Connectivity	Comm. Port	IR Out	Yes (x2)
			IR Out	(1EA to connect film with LED Indicator)
			IR Receiver w/ Light Sensor	3.5 mm
				(used for installation)
		USB3.0		Yes (x1)
	Temperature Sensor			Yes
	Light Sensor			Yes
	TPC (Temporal P	eak luminance Contro	ol)	Yes
	Motion Eye Care	2		Yes
	Power Consumption			30 W
	webOS Version			3.0
	CMS S/W			SuperSign CMS
	Signage365care			Yes
				Power cord, IR+Bright Sensor (1.5m),
	Accessory			3.5mm-to-RS232C Adapter, ESG, Regulation book,
				Warranty Card





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