

Transparent Color LED Film LAT140

Bring New Life to Transparent Space



Superb Transparency



Self Adhesive



Easy Expandability





Product Reliability



TAA Compliant

A NATURAL BLEND WITH SPACE



Superb Transparency

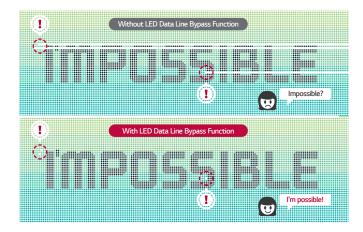
The LG Transparent Color LED Film, which connects each pixel with a thin metal mesh, allows a clear view of the objects behind the product. This maintains a wide-open view while blending smoothly into the existing interior design. Once turned on, the product delivers a stunning, attention-grabbing display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

EYE-CATCHING CONTENT DISPLAY



Enhanced Brightness and Control

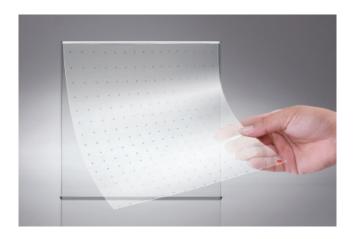
The LED film with smaller pixel pitch (14mm) than its predecessor, and advanced brightness of up to 2,100 nits attracts the attention of passersby while displaying a wide range of colors. Also, the Control Manager solution allows brightness to be set and adjusted by time-of-day to deliver messages with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



Data Lines with Bypass Function

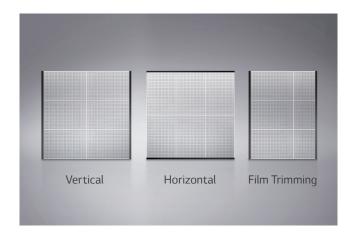
The 14mm transparent LED film consists of LED chips connected with additional bypass data lines. So even if an error occurs with an LED chip, the impact is reduced on the other chips placed in the same row. This new function helps you show text, images, and videos as clearly and reliably as possible.

EASY SPACE INNOVATION



Self-adhesive Film

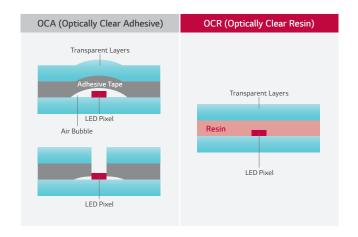
The LG Transparent Color LED film is self-adhesive, so it can be easily attached to the surfaces of existing window glass without the need for any complicated construction.



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.

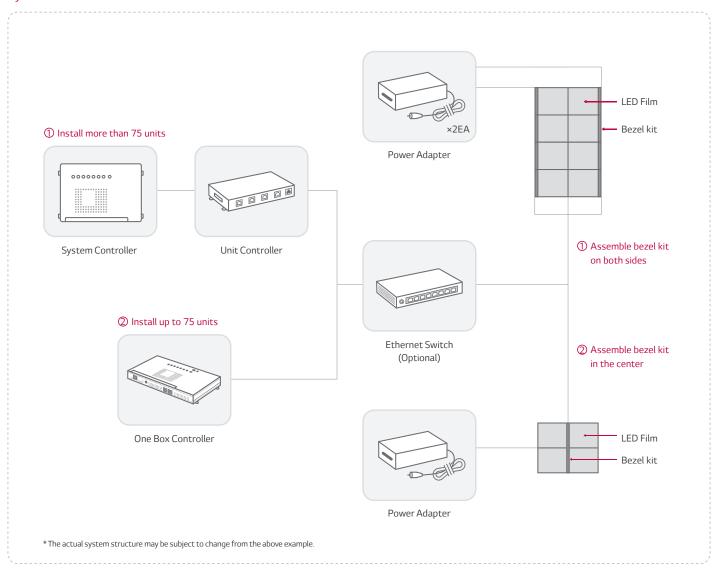
 $[\]star$ The availability of "Signage365Care" service can differ by region, so please contact the LG sales representative in your region for further details.

COMPONENTS & SYSTEM CONNECTION

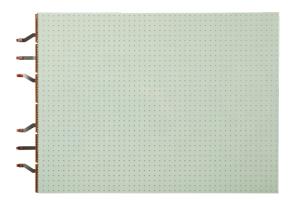
Components*



System Connection



PRODUCT INFORMATION

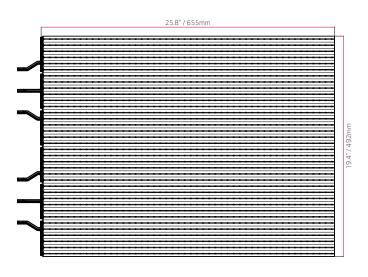


LAT140

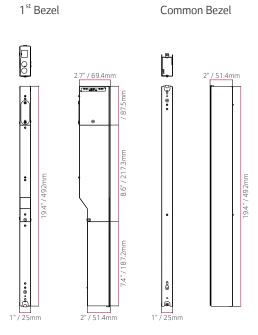
Pixel Pitch	14 mm	
LED Type	3 in 1 SMD	
Brightness	2,100 nits/m² (Typ.)	
Transmittance	53%	
Curvature (Concave and Convex)	2,000R	

DIMENSIONS





Bezel Kit



SPECIFICATIONS

LED PAILAN MODE:	LED EULA				
LED Type	LED FILIVI				
Peebly per Peerl		Pixel Pitch			
Place Plac		LED Type			RGB 3-in-1 Color Package (SMD2020)
Peel Develop Stol2 peels/Pierry 25 mispheses (pg) 2-100 meters 25 mispheses (pg) 100 meters 26 mispheses (pg) 24 / 7 Werrarty		Resolution			48 x 36
Piece Desiry \$1502 pieceshill*		Pixels per Panel			1,728
Brystomes (Pgs)		Pixel Density			5102 pixels/m ²
Contract Rais 100,0001			n)		
Luminates (Mirenty 8.70% 1.00%					·
Chromotoric Information Chromotoric Info					
Vesters Applied (H. N.) 120" x 120" 120" x 12					
Lifetime (Singhtness SDIs) S0,000 Hes		Chromaticity l	Jniformity		Δu'v' ≤ 0.015
Day Usage		Viewing Angle	(H x V)		120° x 120°
Wormany		Lifetime (Brigh	ntness 50%)		50,000 Hrs
Wormany		Daily Usage			24 / 7
Tarquarray Top 53%					2 Year Limited
Operating Perpenditure 33% to 13% for 13% for Code Section					
Filin Timmong			noraturo		•
Color Colo			iperature		
Colors					
Color Communicity		Color Processi	ng		(9bit) 500/500/500 Level (RGB)
Dimensions (W x H x D) (Includes front 8 back protection film) 25.8 x 19.4 x 0.11 in / 55.5 x 49.2 x 2.7 mm		Colors			125 Million Colors
Weight		Color Chromat	ticity		Cx: 0.25±0.03, Cy: 0.34±0.03
Weight		Dimensions (V	V x H x D) (includes t	ront & back protection film)	25.8 x 19.4 x 0.11 in / 655 x 492 x 2.7 mm
Power Consumption (Transparent paine) 1EA + Common Bezel lot 2EA) 3.7 W				,	
MODEL Interface Injunct ROMI/ Output Ofference Serial			nntion (Transparent	nanel 1FA + Common Rezel bit 2FA\	-
Interface	EIDCT DEZEI		ipaon (nansparent	puner TEA + Common Dezerkit ZEA)	
Dimensions (W x H x D)	FIRST DEZEL				
Weight Dozen Consumption (Transparent panel + First & Common Bezel kits) 37 W					
Power Comsumption (Transparent panel + Fex & Common Bezel kits) 37 W		Dimensions (V	V x H x D)		2.7 x 19.4 x 0.98 in / 69.4 x 492 x 25 mm
MODE		Weight			0.88 lbs / 0.4 kg
Interface		Power Consumption (Transparent panel + First & Common Bezel kits)			37 W
Interface	COMMON BEZEL	MODEL			ACC-14LATB2
Demensions (W x H x D)					
Weight Does Does			(v L v D)		·
Note			v x n x D)		
NOPE					·
Resolution 960 x 540 (1/4 FHD) Interface Input INDS / Output INTERFACE Input INT			nption (Transparent	panel + 2 Common Bezel kits)	
Interface	UNIT CONTROLLER	MODEL			LCLG140U
Maximum Transmission Length (CATSE, CAT6) 100 m		Resolution			960 x 540 (1/4 FHD)
Dimersions (W x H x D)		Interface			Input: LVDS / Output: RJ45 x4EA
Dimersions (W x H x D)		Maximum Tran	smission Length (C/	AT5E, CAT6)	100 m
Weight Temperature Sensor Yes Yes				,	
Temperature Sensor Yes Power Consumption 20 W			V X II X D)		
Power Consumption 20 W MODEL Mode Max. Input Resolution DP-1920x1080@60Hz / Input Pigox1080@60Hz / DVI-D-1920x1080@60Hz DVI					-
MODEL					
Video		Power Consun	nption		20 W
Vite		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 ln, x1 Out) Yes (x1				HDMI In	Yes (x1)
DVI-D In Yes (x1) RS-232C 3.5mm (x1 ln, x1 Out) Yes (x1			Digital (w/ HDCP)	DP	Yes (x1 In. x1 Out)
RS-232C 3.5mm (x1 ln, x1 Out)		Connectivity			
Connectivity Comm. Port RJ-45 Yes (x1 ln, x1 Out) (without LED indicator)					, ,
Comm. Port No. 13				R3-232C	
R Receiver (w/ Light Sensor) 3.5 mm (used for installation) USB 3.0				RJ-45	
IR Receiver (W. Light Sensor) (used for installation) USB3.0					
USB3.0 Yes (x1) IVDS Out				IR Receiver (w/ Light Sensor)	
LVDS Out Yes (x1)			USB3.0		
Dimensions (W x H x D)					• •
Weight (Head) 3.5 lbs / 1.6 kg		D: 0/	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 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		Weight (Head)		3.5 lbs / 1.6 kg
Source Selection		Temperature S	ensor		Yes
TPC (Temporal Peak luminance Control)		Light Sensor			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 Selecti	on		HDMI, DVI-D, DP
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Power Consumption		Motion Eye Care			
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Input 100 to 240 Vac, 50-60Hz Output 19.5V/10.8A (210W) Color White DC output cable 14AWG, 1.5m					7.2 x 3.4 x 1.1 in / 183 x 86 x 28 mm
Input 100 to 240 Vac, 50-60Hz Output 19.5V/10.8A (210W) Color White DC output cable 14AWG, 1.5m					1.7 lbs / 0.769 kg
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					·
lýpe L Type					
		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
	Accessory			Power cord, IR+Bright Sensor (1.5m),
				3.5mm-to-RS232C Adapter, ESG, Regulation book,
				Warranty Card





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