



HIGHNESSTM

One of a kind

OTD550FH001

55" TRANSPARENT COLOR ACTIVE MATRIX DISPLAY

Release Date
27th Sep 2025

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Features:

It is a Transparent Color Active-Matrix Organic Light Emitting Diode Display. The matrix employs Oxide Thin Film Transistor as the active element. It is a Top emission display type. It has a 30 inch diagonally measured active display area with Full HD resolution (1920 vertical by 1080 horizontal pixel array). It is intended to Public Display where transparency, high color gamut, high color depth and fast response time are important.

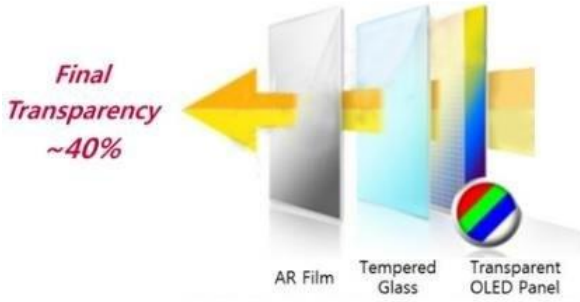
Features of OLED Transparent Display:

1. With OLED inherent characteristics, high contrast, wide color gamut, etc.
2. Display content can be seen in both positive and negative directions.
3. Non-luminous pixels show high transparency, which can realize virtual reality superposition display.
4. Almost borderless

1. Comparison of OLED transparent screen and LCD transparent screen

OLED achieved ~40% transparency as conventional LCD display has 10%.

✓ Transparent OLED

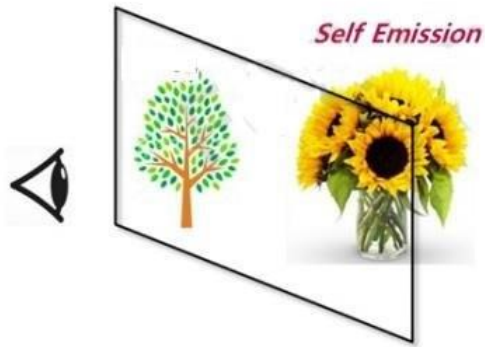


✓ Transparent LCD

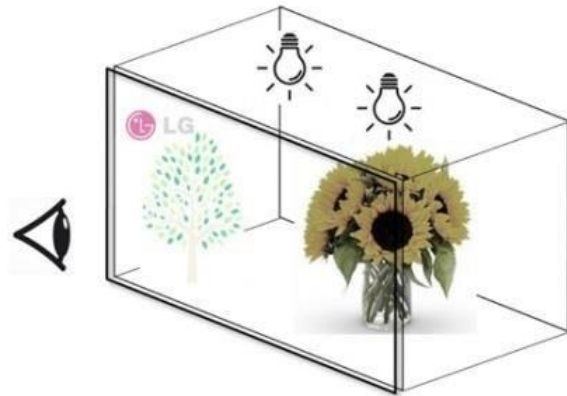


OLED backlight free, has outstanding colors and clearance performance.

✓ Transparent OLED



✓ Transparent LCD



2. Specification

Item	Parameter	Unit	Note
Model	OTD550HD001		OEM
Panel Size	55	Inch	diagonal
Display Type	Poly-silicon TFT Active-matrix OLED		
Emission type	Top Emission		
Active Area	1209.6(H) × 680.4(V)	mm	
Resolution	1920 × 1080(RGBW) [HD]	Pixel	16:9
Pixel Pitch	0.63 × 0.63	mm	
Glass thickness(T/B)	0.7T/0.7T		
Color temperature	10000K		
Gamma Value	2.2		
Color Depth	10bit(R), 1.07Billion colors		
Display Mode	Normally Transparent		
Surface Treatment	Hard coating (2H), Anti-reflection treatment of the front Film (Reflectance Typ. 1.2%_TBD)		
Viewing Angle	60/60/60/60	(min.)	
Contrast	150,000:1		
Brightness	150/400 (Center 1point, Typ.)	cd/m ²	White
Brightness Uniformity	85%		
Transparency	40%	(Typ.)	
Storage Temperature	-20 ~ 65	°C	
Operating Temperature	0 ~ 45	°C	
Input Interface	HDMI、DP		
Touch Panel	capacitive touch / IR touch		optional
System	Android / Windows		optional
Outline Dimension(H/V/D)	1223.4(H)×850(V)×8.6(D)		optional
Power Consumption	Total 62.52W (Typ.) [Logic=11.52W, EVDD=51W] @ IEC62087> : TBD	Watt	(Typ.)
Power Input	AC110~220V		
Life Time	30,000	hour	7*18 Hrs
Input Frequency	(72)Hz		
External interface	LVDS		
Input format(2D/3D)	2D only		
LVDS CNT Type	Locking type		
Color Gamut	Adobe 100%, DCI 98%		
Color coordinate (White)	(0.285/0.294)		
Color coordinate (Red)	(0.674/0.327) TBD		
Color coordinate (Green)	(0.278/0.655) TBD		
Color coordinate (Blue)	(0.142/0.054) TBD		

***Note**

- 2.** The recommended operating temperature of the OLED transparent screen is 20 ± 15 °C and the humidity range is $55\pm 25\%$.
- 3.** The OLED transparent screen is intended for indoor use only. Strong light exposure can cause degradation of polarizers and color filters.

4. Display mode: Dynamic mode (moving image). After a static image is displayed for a long time, a residual image will appear on the screen. Operating usages to reduce the risk of image sticking due to static image.
5. Do not disassemble or repair yourself to avoid high voltage electric shock or other dangers, should ask professional maintenance personnel to complete all maintenance work.
6. Since the screen is mostly used in public places, voltage instability may cause equipment damage. In that case, be sure to use the appropriate voltage regulator for voltage regulation
7. If the machine does not work for a long time, please turn off the power.

3. Dimensions

