— TRANSPARENT LED DISPLAY

Transparent LED Display

No Steel Framing, Instant Glass-to-Display Upgrade

Only 2.0 mm thick, 90–95% transparency, and just 1.3 kg/m² in weight. Self-adhesive direct mounting on glass — no steel framing, no drilling required. Ideal for retail storefronts, building facades, mall atriums, airports, and exhibition halls.



4,000	95%	2.0mm	P4–P20
nits Brightness	Transparency	Overall Thickness	Pixel Pitch

— SPECIFICATIONS

Product Specifications

Model	Pixel Pitch (mm)	Module Size (mm)	Transparency	Brightness (nits)	Pixel Density (/m²)	Power Avg / Peak
P4	4 × 4	1000 × 240	≥ 90%	2,000	62,500	—
P5	5 × 5	1000 × 320	≥ 90%	2,000	40,000	200 / 600 W/m²
P6.25	6.25 × 6.25	1000 × 400	≥ 90%	2,000 / 4,000	25,600	200 / 600 W/m²
P8	8 × 8	1000 × 400	≥ 90%	2,000 / 4,000	15,625	200 / 600 W/m²
P10	10 × 10	1000 × 400	≥ 93%	2,000 / 4,000	10,000	200 / 600 W/m²
P15	15 × 15	990 × 390	≥ 94%	2,000	4,356	200 / 600 W/m²
P20	20 × 20	1000 × 400	≥ 95%	2,000	2,500	200 / 600 W/m²

Thickness	2.0 mm	**Weight**	1.3 kg/m²	**Grayscale**	16-bit
Refresh Rate	3,840 Hz	**Viewing Angle**	160° (H & V)	**LED Lifespan**	≥ 100,000 h
Operating Temp.	−20°C to +55°C	**Humidity**	10–90% RH	**Control System**	Nova / Colorlight

— SELECTION GUIDE

Pixel Pitch Selection Guide

Model	Transparency	Min. Viewing Distance	Best-Fit Applications
P4	≥ 90%	≥ 4 m	Boutique retail, shop windows with fine detail
P5	≥ 90%	≥ 5 m	Boutique retail, auto showrooms
P6.25	≥ 90%	≥ 6 m	Mall atriums, exhibition halls, indoor curtain walls
P8	≥ 90%	≥ 8 m	Indoor building facades, exhibition venues, airport terminals
P10	≥ 93%	≥ 10 m	Building exteriors, subway stations, public space advertising
P15	≥ 94%	≥ 15 m	Large building facades, outdoor curtain walls
P20	≥ 95%	≥ 20 m	Extra-large curtain walls, landscape decor

— FEATURES

Why Choose Our Transparent LED Display

Ultra-Thin Flexible Design

Just 2.0 mm thick and 1.3 kg/m², it flexes to fit curved glass and irregular facades with zero added structural load.

90%–95% Transparency

Mini LED chips (1313 / 2121) with a gridless circuit: 90% at P4–P8, up to 95% at P20.

High Brightness & Contrast

Up to 4,000 nits (P6.25–P10 high-brightness version) for semi-outdoor glare; 16-bit grayscale and 3,840 Hz, flicker-free on camera.

3-Step Installation

Clean the glass, apply the film, connect the control box. No drilling or steel framing; adhesion cures in 8–24 hours.

5+ Year Lifespan

LED lifespan ≥ 100,000 hours, UL 94 V-1 flame-retardant, 5,000-hour UV test with no yellowing.

Fault Bypass

All chip types keep the rest of the row running if a single LED fails; patented independent LED driver IC.

— COMPETITIVE ADVANTAGE

TCTL vs. Typical Market Products

Specification	TCTL Transparent LED Display	Typical Market Products
Module Width	400 mm (fewer seams)	240 mm (more seams)
Film Thickness	2.0 mm	3.0 mm
Grayscale Level	True 16-bit	14-bit
Supported Chip Types	1313, 2121	2121 only
Fault Bypass	✓ Full range	2121 only
LED Bonding Wire	Gold wire	Alloy wire
Flame-Retardant	✓ UL 94 V-1 certified	Not certified
Adhesive	Strengthens over time	Constant strength or not self-adhesive

Installation and Ordering

Mounting	Self-adhesive on glass	**Glass Types**	Flat or curved	**Environment**	Indoor / semi-outdoor
Lead Time	3–4 weeks	**MOQ**	None	**Sample Test**	1 module + 1 controller

How to choose: P4–P8 suits retail displays; P10–P20 suits building exteriors. Send us your glass size, installation environment, viewing distance, and application, and we will recommend a model with a quotation.

Ready to Get Started?

Share your project requirements and we will respond within 24 hours with a customized solution.

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