COB Transparent LED Display Solutions

PIONEER IN COB TRANSPARENT AND FLEXIBLE LED DISPLAYS

Ultra-thin. Glass-bonded. Up to 95% transparency — for retail glass, showrooms, lobbies and building facades.

Vistar Display | Micro LED & LED Display Manufacturer

vistardisplay.net

PRODUCT LINE 01

COB Flexible Film Screen

A frameless transparent LED screen that bonds directly onto glass. The light board uses a PCB with a hollowed-out mesh cir keeping the screen under 2 mm thick — thin, bendable and cuttable, so it disappears into the glass when off.

Key Advantages

85% Transmittance

Hollowed mesh back panel lets light pass through without blocking the view.

2 mm Thickness

Ultra-thin PCB backplane — total screen thickness under 2 mm.

46 kg/m² Weight

Light enough to adhere directly onto existing glass surfaces.

Clear in Daylight

High contrast keeps content legible even in bright ambient light.

Minimal Installation

Adheres straight to glass with specialised adhesive — no steel structure.

80%+ Perceived Transparency

Self-developed ICs and premium materials across the whole ran

Product Series

COB VAD Window Series

Flagship storefront window display.

COB Advertising Player Series

Standalone digital signage for retail and lobbies.

COB Dome / Hidden Space / Electronic Fence Series

Curved, concealed and perimeter glazing applications.

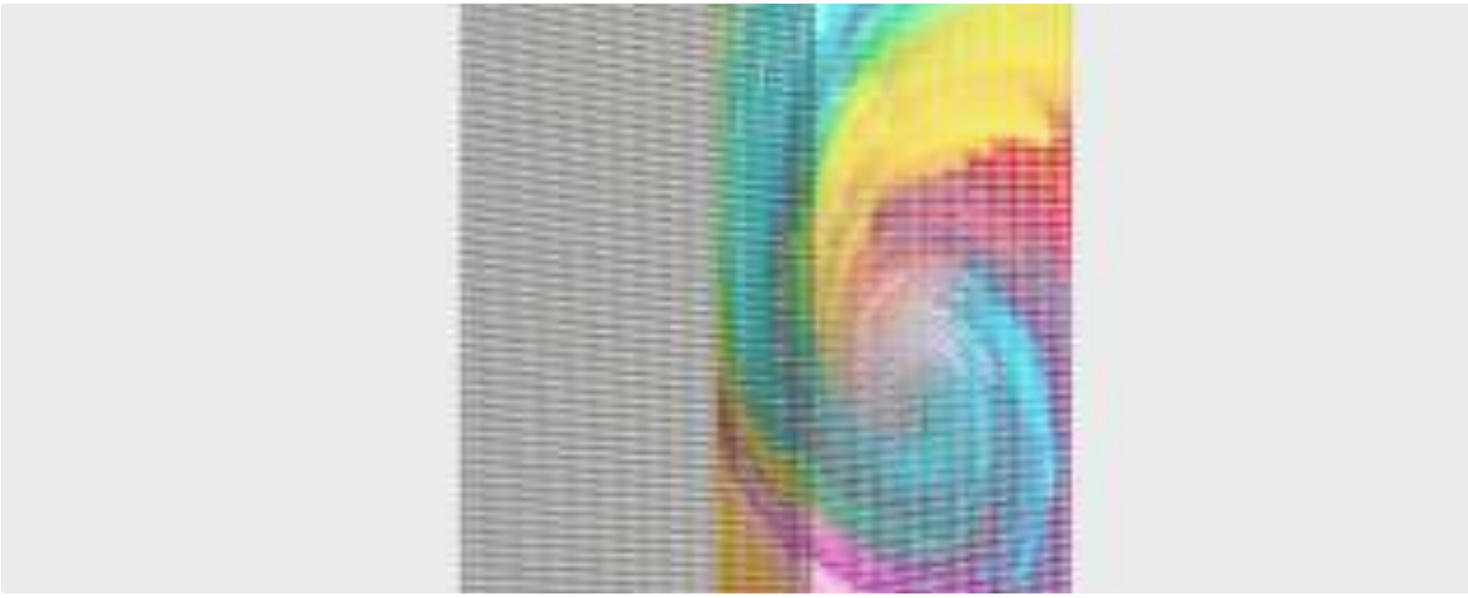
Specifications

Item	P3.91	P6.25	P10.4
Pixel Pitch	3.91 mm	6.25 mm	10.4 mm
Transparency	80% – 85%		
Screen Thickness	< 2 mm		
Weight	46 kg/m²		
Brightness Control	Manual / Auto / Programmable		
Installation	Glass direct-bond / Hanging / Inner arc		

PRODUCT LINE 02

COB Chip Screen

A breakthrough transparent LED display built with bare-die LED technology. A transparent crystal-film substrate carries an etc mesh circuit, and components are fixed directly onto the highly transparent flexible film. A vacuum-sealing process then turns module into a light-emitting optical-lens substrate.



Key Advantages

95% Transmittance

Die-bonding process — the wafer itself emits light, enabling a very small footprint.

0.8 mm Thickness

Lamination and film-coating process — lighter and thinner still.

70% Lower Energy Use

Significantly reduced power consumption versus conventional displays.

Low Operating Temperature

No lamp-bead design and no mask — heat dissipates quickly.

High Stability

COB flip-chip process delivers a very low dead-pixel rate.

Flexible & Cuttable

Soft, bendable and customisable to fit irregular glazing.

Product Series

COB Lingpo Series

Over ten pitch options, fully customisable, seamless modular splicing for very large display walls.

VGS-E3 Indoor Full Colour

A standard 720 mm × 1080 mm unit that can be hung independently — a digital canvas floating in air.

COB EF Indoor Railing Series

Non-destructive bonding onto mall and escalator handrail glass to advertise and attract footfall.

Specifications

Item	Value
Pixel Pitch Options	P3.75 / P5 / P6 / P8 / P10 / P15 / P20 / P30
Transparency	Up to 95%
Screen Thickness	0.8 mm
Energy Consumption	70% lower than conventional
Cabinet Wiring	Internal wiring (clean rear)
Process	COB flip-chip, vacuum sealed

PRODUCT LINE 03

COB Photoelectric Glass

LED chips integrated into laminated glass, so the glass itself becomes the display. The structure preserves the glass's natura transmission while adding video, image and text playback — function and practicality in one.

Key Advantages

95% Transparency

Matrix-arranged light units show clear imagery while letting daylight through.

9 mm Thickness

Double-sided laminated glass — 4 mm per pane, about 9 mm ov

IP65 Waterproof

Units sealed in OCA adhesive between glass panes — rain-proof, outdoor-ready.

Low Energy — 50–80 W/m²

Die-bonding plus external drivers keeps running cost low.

100,000 h Lifespan

COB flip-chip with no gold-wire bonding — fewer dead pixels and lines.

No Yellowing

Special OCA adhesive stays optically clear under long-term sunli

Product Series

COB Railing Screen Series

Combines technology and aesthetics — keeps glass transparent while showing dynamic brand and service information in commercial and public spaces

COB Smart Sequence Series

Built for government halls, hospitals, banks and railway stations, where high transparency and ease of use matter most.

Queue-Call Screen Series

Public service queuing and information display.

Specifications

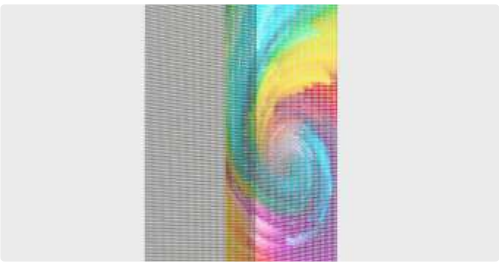
Item	Value
Pixel Pitch Options	P8 / P15 / P20
Glass Structure	Laminated, 4 mm + 4 mm (≈9 mm total)
Transparency	Up to 95%
Protection	IP65
Average Power	50 – 80 W/m²
Lifespan	100,000 hours
Installation	Glass direct-bond / Hanging / Inner arc

APPLICATIONS

Where COB Transparent LED Works

Because the screen bonds to glass and stays transparent, it fits places a conventional LED wall simply cannot go.

Retail storefront glass



Showroom & exhibition

Lobby & building facade

Typical Scenarios

Shopping Malls

Window and railing advertising without blocking the view into the store.

Car Dealerships / 4S Stores

Showroom glazing that promotes offers while keeping cars visible.

Hotel & Corporate Lobbies

Reception feature walls and glass partitions with dynamic content.

Building Facades & Curtain Walls

Large-scale media glass with IP65-rated outdoor options.

Public Service Halls

Government, hospital, bank and railway queuing and information screens.

Selected Project

Shandong City Service Center

6 units, P8 photoelectric glass screens — public service information display on architectural glazing.

GET IN TOUCH

Let's Put Your Glass To Work

Tell us the glass size, viewing distance and ambient light — we will recommend the right pitch, transparency and mounting method, with a custom quote.

vistardisplay.net

- Transparent LED film, chip screen and photoelectric glass
- Custom sizes, pitch from P3.75 to P30
- Front or rear service, IP65 outdoor options
- Engineering support for curtain-wall and facade projects

Manufacturer-backed Micro LED from Chengdu, plus transparent LED, COB and conventional LED display solutions.