P1.25 COB LED Display

Technical Datasheet — Standard · Pro · Ultra Series | **Excel LED** | excelleddisplay.com

Indoor fine-pitch COB LED display at 1.25 mm pixel pitch (640,000 px/m²). Flip-chip COB packaging with a sealed, matte, IP54 water-cleanable front surface rated 4H hardness. All three series share the same die-cast aluminum 600 × 337.5 × 39.75 mm cabinet (480 × 270 px, ≈4 kg, front service) and the same 150 × 168.75 mm flip-chip COB module (120 × 135 px, 8 modules per cabinet) — mechanical and power planning carry over unchanged between tiers.

1 · Series Comparison at P1.25

Parameter	Standard	Pro	Ultra
Brightness (corrected white balance)	600 nit	800 nit	1000 nit
Refresh rate	3840 Hz	3840 Hz	15360 Hz
Drive circuit	Common anode	Common cathode	Common cathode*
Contrast ratio (no ambient light)	≥10,000:1	≥15,000:1	≥10,000:1
Max power per cabinet	70 W	90 W	≈86 W
Scan mode	1/60	1/60	1/60
Best for	Corporate · retail · education	Bright lobbies · daylight rooms	Broadcast · on-camera · flagship rooms

*Common cathode is the per-pitch configuration at P1.25; the Ultra series main configuration is common anode.

2 · Shared Platform Specifications (all series)

Parameter	Specification
Cabinet size / resolution	600 × 337.5 × 39.75 mm die-cast aluminum / 480 × 270 px (129,600 px)
Module	150 × 168.75 mm, 120 × 135 px flip-chip COB, 8 modules + integrated control board per cabinet
Cabinet weight	≈4 kg per cabinet (≈4.94 cabinets per m²)
Front protection	4H surface hardness · IP54 (IEC 60529) · cleanable with water · matte anti-glare finish
Maintenance	Front maintenance access
Color temperature / viewing angle	9300 K (standard) / 160°
Control system	NovaStar-class receiving-card architecture; per-cabinet Flash calibration storage
Input voltage	AC 100–240 V, 50/60 Hz
Operating / storage	–10 °C to +40 °C / –20 °C to +60 °C, 10–90% RH
Large-format option (Standard series)	600 × 675 × 39.75 mm cabinet: 16 modules, 480 × 540 px, ≈7.9 kg

3 · Certifications & Compliance

RoHS · FCC · CCC — group-level certificates shared across the group's brands. Additional project-specific certifications available on request.

4 · Standard-Series Lineup (other pitches on the same platform)

Pitch	0.62	0.78	0.9375	1.25	1.56	1.875
Pixels per m²	2,560,000	1,638,400	1,137,777	640,000	409,600	284,444
Max power (600×337.5)	95 W	85 W	75 W	70 W	70 W	65 W

Get a configuration and quotation: send screen size, closest viewing distance, ambient light and daily running hours to **Excel LED** — excelleddisplay.com — reply within one business day.

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