

NovaVista · Deep Black Series

135" COB All-in-One Conference Display

Deep Black Edition — Professional Conference Display

Deeper black. Sharper focus.



135" COB All-in-One Conference Display — front view

01 PRODUCT OVERVIEW

The 135" COB All-in-One Conference Display brings professional-grade direct-view LED image quality into the everyday meeting room. Built on full-flip-chip COB encapsulation, it delivers a 15,000:1 contrast ratio, a 170° ultra-wide viewing angle and DCI-P3 119.63% Vol / 95.5% Dev. The 50 mm one-piece magnesium-alloy chassis weighs just 88 kg, and two screen panels join on site so the system is ready to run in around two hours.

The screen surface carries the Deep Black treatment. Most products on the market darken the panel with an ink coating or a laminated film — a layer applied to cover solder joints, exposed copper and uneven PCB ink color. Deep Black takes a different route: it works on the optical interface itself, so ambient reflection is not generated in the first place. Reflectance falls to 2.0% (SCI mode), over 60% less than a standard LED screen, with no sacrifice in brightness or color gamut. In practice, the contrast built into the panel survives a fully lit meeting room: powered down, the display is a deep, quiet surface; powered up, black levels stay clean and the picture stays clear.



In-room conferencing scenario

02 KEY SELLING POINTS

- 01 Deep Black black-level enhanced surface treatment** Reflectance down to 2.0% (SCI mode) — over 60% less reflected light than a standard LED screen. No gray cast, no white haze.
- 02 Full-flip-chip COB encapsulation** Chips bonded directly to the substrate for proven stability and reliability; moisture, dust and impact resistance for high-traffic environments.
- 03 15,000:1 contrast ratio** Deep native contrast that still holds up in a lit room — the surface keeps ambient reflection down, so black levels are not lifted back toward gray.
- 04 170° wide viewing angle · wide color gamut** No color or brightness shift across a full 170° horizontally and vertically; DCI-P3 119.63% Vol / 95.5% Cov.
 Every seat in the room is a good seat.
- 05 Conferencing + entertainment dual system** Android 11 with two embedded modes and one-touch switching — a meeting display during the day, a showcase and screening screen after hours.
- 06 One-piece lightweight chassis** 50 mm magnesium-alloy body, 88 kg for the whole unit; ultra-narrow bezel with a 95% screen-to-body ratio for a seamless front view.
- 07 Operational in around two hours** The cabinet is formed by two screen panels joined left and right, for modular transport and fast on-site assembly; full front service keeps it flush to the wall.
- 08 Every detail covered** 100–450 nits adjustable brightness, 3840 Hz refresh, 10-bit grayscale, dual-band Wi-Fi and Bluetooth 5.2, with 2 × 15 W integrated speakers.

03 THE DEEP BLACK SURFACE — WHAT SETS IT APART

Why black matters

Meeting room lights are always on. When ambient light lands on a conventional LED screen, black turns gray: the image washes out, a white haze appears, and shadow detail is eaten by reflection. Black-level performance is the underlying variable in conference-room picture quality.

How it is achieved

Deep Black is a black-level enhanced surface treatment. Its core principle is not to stack film layers on the panel, but to engineer the optical interface so that ambient light is not reflected in the first place.

How it differs from coating and film approaches

Ink coatings and laminated films are the common way to make an LED screen look darker. Both sit on top of the panel and deal with reflection after it has already happened — which is why they often mean giving up some brightness, or accepting a haze that dulls the picture. Deep Black acts on the optical interface itself: reflection is suppressed at the source, so the screen keeps the native brightness and vivid color of the LED underneath.

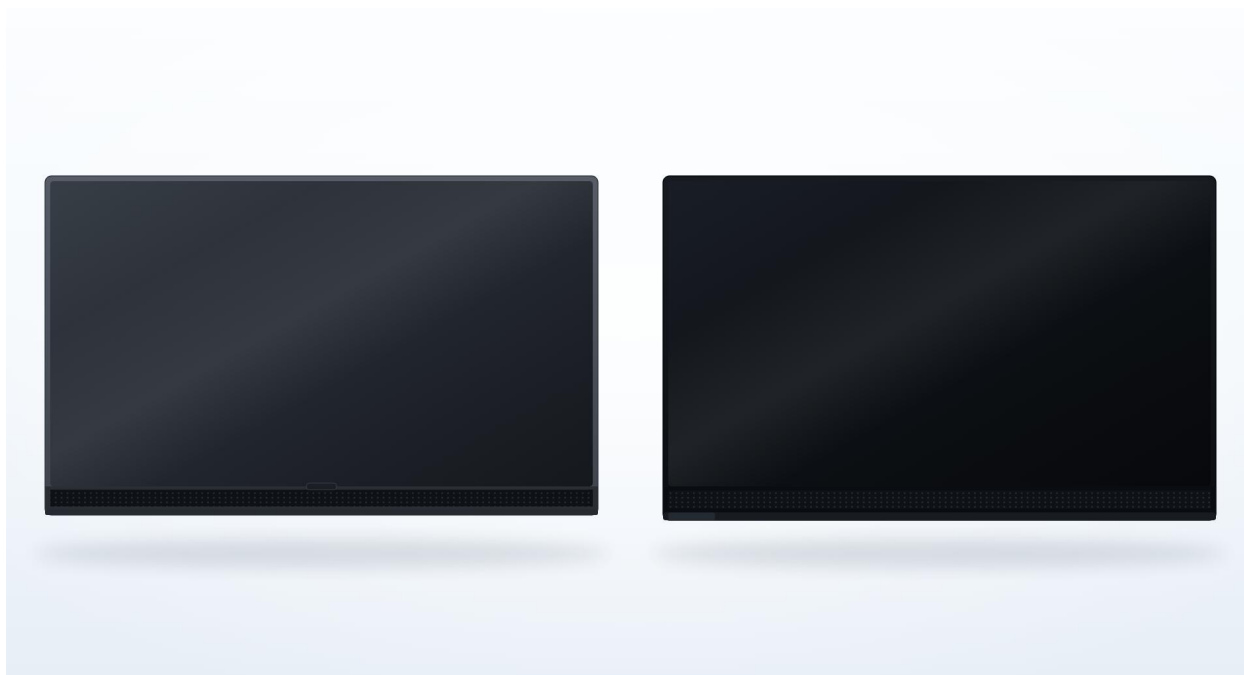
Dimension	Coating / film approaches	The Deep Black route
How reflection is handled	An added layer absorbs or diffuses it	The optical interface is engineered so reflection is not generated
Brightness and color	Lower reflection often costs brightness or adds haze	Native LED brightness and color gamut retained — no hazy-matte shortcut
Surface gloss	Varies with the coating or film used	40 GU at 60° — between semi-matte and full matte
Appearance when off	A coated surface can still read gray under room lighting	No gray cast, no white haze — a dark field that stays dark
Packaging compatibility	Usually specified per panel build	Compatible with mainstream COB / MIP / SMD packaging

Measured performance

Metric	Performance	What it means for you
Reflectance	≤ 2.0% (SCI mode)	Ambient light interference is significantly reduced; black reads as genuinely deep
Reflected light	60%+ lower than a standard LED screen	The picture holds together even with the room lights up
Surface gloss	40 GU at 60° — between semi-matte and full matte	Harsh highlights are removed without softening the image

What you get

- **Jet-black when off:** no gray cast, no white haze — the panel blends into the space instead of standing out.
- **Clearer when on:** black levels are not lifted by ambient light, so the 15,000:1 contrast is picture quality you can see, not just a number on a data sheet.
- **Camera-friendly:** specular reflection and camera noise are effectively suppressed — conference recording and showroom streaming need no additional anti-reflective accessories.
- **No image-quality tax:** low reflection is achieved without compressing LED brightness or color gamut.



Standard unit (left) vs Deep Black edition (right), powered off

04 APPLICATION SCENARIOS

Executive boardrooms / conference rooms Large-format conferencing, presentations and remote collaboration — and clean capture of the meeting itself.

Showrooms and brand spaces A deep, dark panel at rest; a canvas for showcase content and live broadcast the moment it powers up.

Commercial display environments Reception areas, lobbies and display walls — spaces that stay lit, where the screen still has to look composed.

Filming and content capture On camera without reflection or wash-out — general filming and content production on a surface that stays dark.

05 SPECIFICATIONS

Basic Parameters

Item	Specification
Model	135" Entertainment & Conference All-in-One (Deep Black Edition)
Aspect Ratio	16:9
Resolution	1920 × 1080
Active Display Area	5.0625 m ²
Dimensions (W × H × D)	3005 × 1782.1 × 50 mm
Depth	50 mm (wall mount excluded) / 69 mm (wall mount included)
Net Weight	88 kg
Cabinet Material	Magnesium-alloy

Frame Material / Finish	Aluminum profile / Gunmetal gray
Maintenance	Full front service
Installation	Wall-mounted or mobile stand

Display Parameters

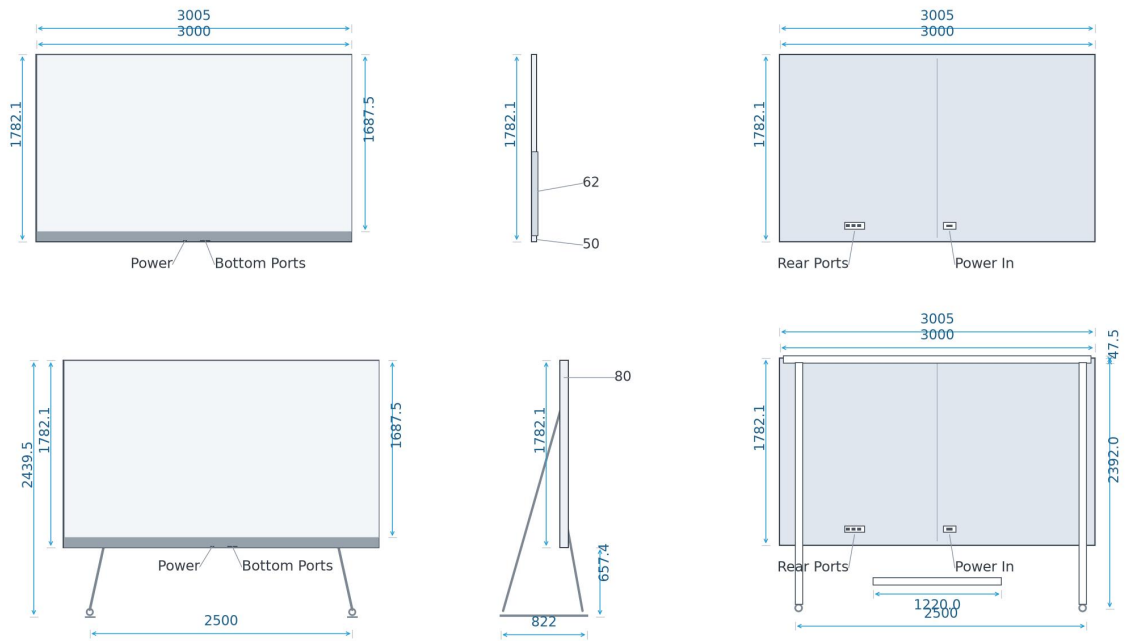
Item	Specification
Encapsulation	COB (Chip-on-Board), full flip-chip
Surface Treatment	Deep Black black-level enhanced surface treatment (reflectance $\leq$ 2.0%, SCI mode)
Viewing Angle	H 170° / V 170°
Brightness	100 – 450 nits, adjustable
Refresh Rate	3840 Hz
Grayscale	10 bit
Contrast Ratio	15,000:1
Color Temperature	6,500 K – 9,300 K, adjustable

System & Operating Parameters

Item	Specification
Operating System	Android 11.0 (Entertainment / Meeting modes)
CPU	Quad-core A53
Memory / Storage	2 GB + 16 GB
Interfaces	HDMI 2.0 ×4, USB 2.0 ×2, RJ45 ×1, 3.5 mm audio out ×1, Mini AV ×1, Optical ×1
Wi-Fi	Dual-band 2.4 G / 5 G, Wi-Fi 5
Bluetooth	5.2
Speakers	15 W × 2 (integrated)
Remote Control	Supported
Standby Power	$\leq$ 0.5 W
Average / Maximum Power	450 W / 1,400 W
Operating Temp. / Humidity	-10 °C to +40 °C / 10 – 80 % RH, non-condensing
Input Voltage	100 – 240 V, 50/60 Hz

Accessories

Category	Contents
Included	Remote control ×1, power cord ×1, wall-mount bracket ×1, wireless casting dongle ×1
Optional	Mobile stand ×1



Dimensions and mounting options (wall-mounted / floor stand)

Notes: Product images are for reference only; the actual product (including but not limited to appearance, color and dimensions) may differ slightly, please refer to the physical product. Specifications are reference values. Some data originates from internal laboratory testing under specific conditions and may vary slightly due to production batch, configuration, software version, operating conditions and environmental factors. Please refer to actual performance in use.