

PHILIPS



Philips Unite LED
6000 Panels

Signage Solutions

27"

Direct View LED



27HDL6500IP

Philips Unite LED 6000 Series panels

Premium performance. Seamless integration.

The Philips Unite 6000 Series redefines professional LED performance. Purposefully engineered and expertly specified to bring ease of installation together with advanced features and stunning visual quality. Ideal for true business impact.

Vivid brightness – up to 1000 nits

- Enabling bolder visuals – even in lighter environments.

Precision calibration – colour accuracy

- Multi-layer calibration for consistency across modules.
- Advanced colours, gradients, and greyscale.
- Outstanding picture quality with real depth.

Flexible, efficient configuration

- Modular design adapts to any space or resolution need.
- 5G connection with simplified cabling and reduced costs.

Brilliant COB LED for advanced quality

- 0.7 fine pixel pitch for ultra sharp visuals.

Ultra smooth picture motion

- High refresh rates deliver flicker-free, fluid motion.

Highlights

Brilliant Flip Chip COB LED for advanced quality

Delivering advanced quality visuals with an ultra fine 0.7mm pixel pitch. Vibrant colours, deep blacks, and uniform brightness create an immersive visual experience, ideal for high impact professional settings. Cool common cathodes bring stability, reliability, and higher definition together with lower energy consumption for reduced cost of ownership.

Ultra smooth picture motion

With refresh rates up to 3840 Hz, Philips Unite LED 6000 Series panels deliver flicker-free, seamless visuals. Ideal for playing fast-moving content, live feeds, and for mission critical applications where every frame counts.

Vivid brightness – up to 1000 nits

Up to 1000 nits of brightness ensures vibrant, high contrast imagery even in areas with high ambient light. Ideal for well-lit spaces such as

lobbies, shopping malls and retail spaces, or broadcast environments that demand visual impact.

Precision calibration – colour accuracy

Factory and multi-layer calibration guarantee uniform brightness and colour accuracy across all modules. The result? Consistent image quality that maintains brand integrity and professional standards at any scale. Ideal for bringing revenue generating advertising on board. Multilayer greyscale calibration ensures flawless dark tone uniformity, vibrant colour accuracy, and ultra smooth detail. Meanwhile, automatic recalibration keeps visuals perfect – ideal for premium LED installations.

Colour depth that stands out

Higher colour depth enhances gradients and eliminates banding, while thermal compensation eliminates colour casting even with longer operating times. Advanced greyscale brings greater texture quality to imagery while also supporting faster processing times. All bringing content to life with more detail and realism and

ensuring premium performance for branding perfection, unrivalled presentations, and immersive displays.

Optimised for every environment

Designed for flexibility, the advanced brightness control, calibration layers, and performance tuning features within the Philips Unite LED 6000 Series simplify integration and operation, adapting to lighting and content needs and delivering content without compromise. Front access makes servicing and maintenance easier, with each of the modules in a cabinet able to be removed easily, and direct access to power supply, hub board, and wiring.

Efficient configuration with 5G connection

The advanced receiving card within the Philips Unite LED 27HDL6500IP supports 5G network cable input, with a higher loading capacity enabling the use of just one receiving card per panel. Resulting in fewer cables and full compatibility with the Novastar COEX ecosystem.

Specifications

Picture/Display

Brightness (nits): 1000 nit
Brightness uniformity: $\geq 95\%$
Calibration(brightness/color): Brightness
Color temperature adjust range: 4000~9500 (by software)
Color temperature default: 6500K \pm 500 K
Contrast ratio: 5000:1
Bit-depth(bit): 16
Frame frequency (Hz): 50-60
Refresh rate(Hz): ≤ 3840 Hz
Colour uniformity: $\pm 0.012C_x, C_y$
Colour coordinates: 0.313, 0.325 ($\pm 0.012C_x, C_y$)
Viewing angle (°) H/V: >160/160
Scan rate: 64

Power

Input voltage: AC100~240V (50 & 60Hz)
BTU/M2: 387
Cabinet Max Power consumption (W): 116
Cabinet Typical Power consumption (W): 39
Power consumption/M2 (W): 573
Power supply unit: HWT-403V8-2S-SS

Operating conditions

Temperature range (operation): -20 - 45 °C
Temperature range (storage): -20 - 50 °C
Humidity range (operation)[RH]: 10%-80%RH
Humidity range (storage) [RH]: 10%-85%RH
Working environment (indoor/outdoor): Indoor

Cabinet

Cabinet area (m²): 0.2025
Cabinet resolution (W x H): 768 x 432 pixels
Data connector: RJ45
Power connector: C13/C14
Receiving card quantity: 1
Receiving card brand: Novastar
Weight (KG): 4Kg (\pm)
Cabinet construction: Die-Casting Aluminum
Cabinet Size (WxHxD in mm): 600x337.5x33.12
Cabinet size (inch): 27.1"
Receiving card type: CA50E

Module

LED type: COB
Pixel constitution: 1R1G1B_Flip Chip
Pixel pitch (mm): 0.78125

Module size (WxH in mm): 150x168.75x2.0 mm (tolerance: +0/-0.1)

LED Pole type: Common Cathode
LED Lifetime (Hrs, half brightness): 100,000
Conformal coating (UV-resistant): No
Flatness of LED module with back shell: ≤ 0.25 mm

Module Resolution (WxH in pixels): 192 x 216
Included: Black screen power saving, Flash memory, Dynamic power saving

Miscellaneous

Warranty: 2 years
Regulatory approvals: FCC SDOC, Part 15, Class A, EN55032, EN55035, EN61000-3-2, EN61000-3-3, IEC/UL60950, IEC/UL62368, CE, RoHS

