Indoor LED 1.2 mm 220" UHD Bundle

Sharp LD-FE123-220

Engineered for efficiency, without compromise

For bezel-free visual impact and long-lasting performance, the Sharp LD-FE3 Series sets a new benchmark in energy-efficient dvLED display technology. Built on NEC's legacy of engineering excellence, the third-generation FE Series features advanced Flip-Chip technology and industrial-grade components to deliver vibrant, high-contrast imagery while reducing energy consumption and heat output by up to 60%. The result is a substantial reduction in operating costs and HVAC demands, without compromising visual precision or performance.

Native FHD and UHD resolutions are achieved using modular 16:9 cabinets, bundled with all essential components for easy installation including power bar, frame, mounting, and controller. The proven mechanical, all-metal cabinet design ensure precise module alignment, long-term structural stability, and fire safety compliance.

Supporting both freestanding and wall-mounted integration, the lightweight FE3 Series also features front-serviceable modules for hassle-free maintenance. Its uniform large-surface, fine pixel pitch performance delivers a seamless, detail-rich viewing experience, ideal for command and control, broadcast, signage, and conferencing. Its cost-saving efficiency also makes it a smart choice for education and leisure environments.

Benefits

Significantly lower energy usage – Highly efficient Flip-Chip IMD technology reduces power consumption by up to 60% compared to standard SMD, at the same brightness.

Uncompromised image quality – An exceptional contrast ratio, ultra-deep black levels, fine pixel pitch, and wide viewing angles ensure vivid clarity and accurate colour reproduction even in bright ambient light conditions.

Minimised interference – low electromagnetic emissions allowing for EMC Class-B certified modules.

Easy installation – Bundled solutions include all components for fast, hassle-free deployment.

Slim design – with a flush rear profile, LED modules can be integrated very close to the wall with minimal gap necessary due to very low heat emission.

Specifications

Product Information

Product Name
Sharp LD-FE123-220

Product Group
Indoor LED 1.2 mm 220" UHD Bundle

Components
LDFE123-220,
LDFE123-220-NP (no powerbar)

Display

Pixel Configuration
3-in-1 SMD (Black)

LED type
FlipChip SMD (1010)

Screen Size [inch/cm]
220 / 559

Pixel Pitch [mm]
1.2

Aspect Ratio
16:9

Contrast Ratio (typ.)
8000:1

Viewing Angle [°]
170 horizontal / 160 vertical

Brightness (max.) [cd/m²]
700

Dimming Capability
256 levels

Lifetime
100000 hrs (50% brightness)

Colour Processing
16 bit

Colours [Trill.]
281

LED Driving Method
1/45 dynamic scan

Frame Rate [Hz]
50/60

Refresh Rate [Hz]
≤ 3840

Colour Temperature [K]
3000 - 9500

Screen Resolution

Resolution
3840 x 2160

Number of Pixel per m²
623269

Resolution of Pixel per module [dot]
480 x 270

Resolution of Pixel Card [px]
120 x 135

Connectivity

Input Video Digital
1 x HDMI

Input Control
1 x GenLock; 1 x LAN

Electrical

Total Power Consumption [W]
1408 typ. / 2432 max.

Power Consumption typ. [W]
106 per m² (normal use)

Power Consumption max. [W]
183 per m²

Power Consumption typ. [BTU]
361 per m² (normal use)

Power Consumption max. [BTU]
624 per m²

Environmental Conditions

Operating Temperature [°C]
-20 to 40

Operating Humidity [%]
10 to 80

Mechanical

Dimensions (W x H x D) [mm] per module
608 x 342 x 49

Dimensions (W x H x D) [mm]
4,876 x 2,843.5 x 73.5

Weight [kg]
659.2

Regulatory

Safety and Ergonomics
CE; EMC Class B; ETL; FCC; RCM; RoHS; UKCA; VCCI

Additional Features

Shipping Content
1x LED Controller; LED Modules (64 Cabinets, 512 Pixel Cards); Overframe Kit (8x8); Pixel Card Removal Tool; Powerbar (depending on version); Spare Parts Kit; Wall mount (8x8)

Special Characteristics
Cableless Connector for Data and Power; Flush Surface SMD Design; Single Data Receiving Cards; Single Power Supplies

Manufacturer
SHARP

Serviceability
Front Service

IP Level
IP20

Warranty
3 years

Material
Aluminum Cabinet

* 220 inch

VCCI RoHS CE FCC RCM

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