

Sharp LD-FE153-137

Indoor LED 1.5 mm 137" FullHD Bundle

Datasheet



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.

Product Information

Product Name	Sharp LD-FE153-137
Product Group	Indoor LED 1.5 mm 137" FullHD Bundle
Components	LD-FE153
Order Code	81000819

Display

Pixel Configuration	3-in-1 SMD (Black)
LED type	FlipChip SMD (1010)
Screen Size [inch/cm]	137 / 348
Pixel Pitch [mm]	1.5
Brightness (max.) [cd/m ²]	700
Lifetime	100000 hrs (50% brightness)
Contrast Ratio (typ.)	8000:1
Viewing Angle [°]	170 horizontal / 160 vertical
Dimming Capability	256 levels
Colour Processing	16 bit
Colours [Trill.]	281
LED Driving Method	1/48 dynamic scan
Frame Rate [Hz]	50/60
Refresh Rate [Hz]	≤ 3840
Colour Temperature [K]	3000 - 9500

Screen Resolution

Resolution	1920 x 1080
Resolution per m ²	398892
Number of Pixel per module [dot]	384 x 216
Number of Pixel per card [dot]	96 x 108

Connectivity

Input Video Digital	1 x 3G SDI; 1 x DVI-D; 1 x HDMI
Input Control	1 x GenLock; 1 x LAN

Electrical

Total Power Consumption [W]	550 typ. / 950 max.
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Power Consumption typ. [W]	106 per m ² (normal use)
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Power Consumption max. [W]	183 per m ²
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Power Consumption typ. [BTU]	361 per m ² (normal use)
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Power Consumption max. [BTU]	624 per m ²
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Environmental Conditions

Operating Temperature [°C]	-20 to 40
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Operating Humidity [%]	10 to 80
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Mechanical

Dimensions (W x H x D) [mm] per module	608 x 342 x 49
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Dimensions (W x H x D) [mm]	3,052 x 1,817.5 x 73.5
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Weight [kg]	279
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Additional Features

Shipping Content	1x LED Controller; LED Modules (25 Cabinets, 200 Pixel Cards); Overframe Kit (5x5); Pixel Card Removal Tool; Powerbar (depending on version); Spare Parts Kit; Wall mount (5x5)
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Special Characteristics	Cableless Connector for Data and Power; Flush Surface SMD Design; Single Data Receiving Cards; Single Power Supplies
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Manufacturer	SHARP
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Serviceability	Front Service
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IP Level	IP20
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Certifications	CE; EMC Class B; ETL; FCC; RCM; RoHS; UKCA; VCCI
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Warranty	3 years
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Material	Aluminum Cabinet
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* 137 inch



RCM



VCCI



FCC



RoHS



CE

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