High energy efficiency

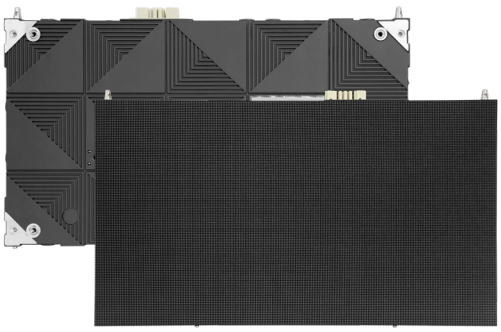
The LED FE3 Series features highly energy efficient flip-chip SMD technology, making a significant impact in lowering energy usage.

Consuming up to 60% less power compared to standard SMD technology yet generating the same brightness output, the LED FE3 Series, the third generation of dvLED FE Series, makes a substantial contribution towards achieving sustainability targets whilst vastly reducing energy bills. Not only does the new flip-chip SMD design improve energy efficiency, but it also improves heat dissipation and durability to further lengthen the lifecycle for an overall more sustainable solution.

Featuring a deep black level, high contrast ratio of up to 8000:1 and excellent off-angle colour reproduction, the fine-pitch FE3 Series generates a superior indoor viewing experience.

Benefits:

- **Significantly lowering your energy usage** – the highly efficient Flipchip SMD technology consumes up to 60% less power compared to standard SMD technology at the same brightness output.
- **Excellent contrast ratio of up to 8000:1 and deep black level** – ensures content is presented in vivid clarity for the best possible viewing experience.
- **Minimised interference** – modules are compliant to EMC Class B, causing no electromagnetic interference.
- **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.
- **Established mechanical cabinet design** – supports wall mounted or freestanding installation with speed and ease, achieving precision module alignment for a single large surface perception.



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Flexible Visualisation with appealing Price/Performance

Content is presented in vivid clarity and detail suitable for demanding command and control, broadcast, corporate signage, and conferencing applications whilst also appealing to the budget-conscious higher education and leisure sectors.

For bezel-free large surface visualisation, the established mechanical cabinet design guarantees precision module alignment. Supporting free-standing or wall mounted integration with front serviceable modules, the lightweight FE3 Series is easy to install and maintain, producing the visual perception of a single canvas in homogenous perfection.

	FE012i3	FE015i3	FE019i3
Order Code	81000474	81000475	81000476
Pixel Configuration	3-in1 SMD (Black)	3-in1 SMD (Black)	3-in1 SMD (Black)
LED Type	SMD (1010) FlipChip		
Resolution per m2	623269	398892	277008
Number of Pixel per module [dot]	129600	82944	57600
Number of Pixel per card [dot]	16200	10368	7200
Pixel Pitch [mm]	1.267	1.583	1.9
Brightness (max.) [cd/m²]	700	700	700
Lifetime	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	8000:1	8000:1	8000:1
Viewing Angle [°] hor / ver	170/160	170/160	170/160
Colour Processing	16 bit	16 bit	16 bit
LED Driving Method	1/45 dynamic scan	1/48 dynamic scan	1/45 dynamic scan
Refresh Rate [Hz]	3840	3840	3840
Colour Temperature [K]	3000-9500	3000-9500	3000-9500
Power Typical [W] m²	106	106	106
Power Maximum [W] m²	183	183	183
Dimensions (W x H x D) [mm]	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49
Weight [kg] Module	8,8	8,8	8,8
Serviceability	Front	Front	Front
IP Level (Front/Rear)	IP20	IP20	IP20
Certifications	CE, ETL/UL, FCC Class A, RoHS, EMC Class B (Module)		
Warranty	3 years (options to extend)		
Available Standard Resolution Sizes	110" FHD, 220" UHD	137" FHD	165" FHD

Efficient Power Management

Sharp/NEC's Remote Power Switch, the LED-RPS-CL-R, is designed to switch LED screens and to eliminate standby power loss. The integrated inrush current limiter can handle up to thirty LED modules connected to one supply line. In combination with the LED FE3 Series, users benefit from much improved operational efficiency. Two control interfaces are available, the control input which can be connected to a potential-free contact (switch or actuator), and the serial interface (RS485) with extended features.

Additional LED-RPS-CL-R units can be cascaded if one power feed is not sufficient to supply the entire LED screen. The next LED-RPS-CL-R unit will switch on after a predefined delay.

The housing can be snapped onto symmetrical DIN rails according to EN60715. The LED-RPS-CL-R is made in Germany using the highest quality components.

LED-RPS-CL-R

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