

LED multiscreen

Orchestrating a brighter world

**NEC**

Attractive and impactful signage production  
with vivid and highly visible video display

# Fine pitch LED display for indoor use

FA-series / FE-series



Orchestrating a brighter world

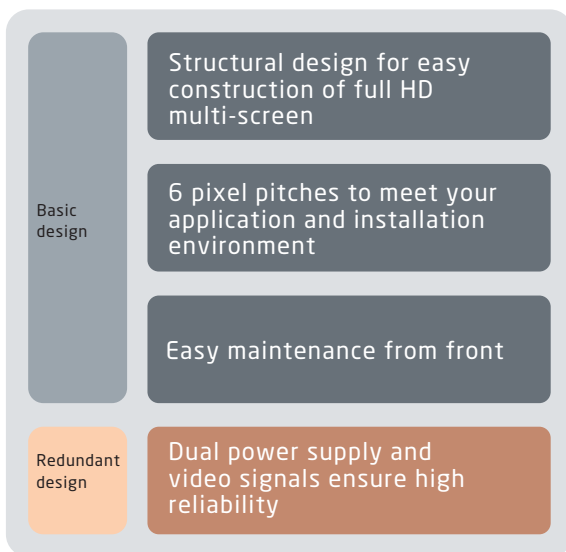
# These large, powerful displays form a seamless multi-screen configuration to provide accurate indoor visibility. Deliver signage that attracts people's eyes.

This series adopts a 16:9 aspect ratio LED module that makes it easy to configure full HD resolution and a fine pixel pitch that ensures high visibility from a short distance. This full-colour fine-pitch LED display meets the needs of large screens in various indoor spaces.

## High grade model

FA-series

LED-FAxxxI2



## Standard model

FE-series

LED-FExxxI2



## Ensures clear image quality even in bright environments and is easy to maintain

### High visibility video

3-in-1 SMD type with a wide viewing angle

The LED pixel configuration is a 3-in-1 SMD type that incorporates RGB three-colour elements in one package. It is highly visible even when viewed from an angle, ensuring a wide viewing angle from up, down, left, and right.



### A common-sized LED module

16:9 aspect ratio for easy configuration

The module size consisting of 8 pixel cards (4 for LED-FA025I2) is standardised to 608 x 342mm. Because it uses an aspect ratio of 16:9, a multi-screen with full HD resolution (1,920 x 1,080) can be configured by combining the same number of modules vertically and horizontally.

### Easy maintenance

Maintenance is possible on the front

Power supply and video signal connectors are installed on the top and bottom of the LED module, and wiring is completed with only a combination of modules. Smart installation is possible because the wiring between modules is not visible from the outside. The pixel card can also be removed and maintained from the front, so it can be installed in places where backyards cannot be secured.

### Easy viewing even in bright conditions


The LED-FA025I2, LED-FA031I2, and LED-FA038I2 have a screen brightness of 1,200 cd / m<sup>2</sup> and a contrast ratio of 7,000:1\*. Projects bright and sharp images even under bright lighting or indoors where light hits the panel directly.

\*LED-FA012I2, LED-FA015I2, and LED-FA019I2 are 800 cd / m<sup>2</sup> and 5,000:1.




# Examples of Full HD multi-screen configurations by viewing distance


**Typical use**




**Medium meeting room**




**Company Entrance**



**Showroom**



**Control room**



**Airport**

**Viewing distance (Rough guide)\***  
\*Distance that pixel is hard to recognize

3.0 m

3.8 m

4.8 m

6.3 m

7.8 m

9.5 m

**110"** 1.2 mm pitch  
**LED-FA012i2**  
Kit product

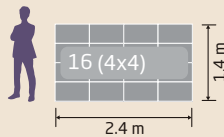
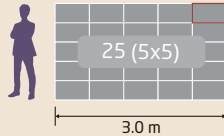
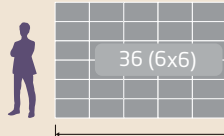
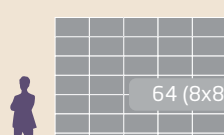
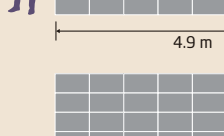
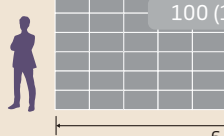
**137"** 1.5 mm pitch  
**LED-FA015i2**  
Kit product

**165"** 1.9 mm pitch  
**LED-FA019i2**  
Kit product

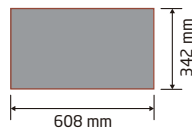

**220"** 2.5 mm pitch  
**LED-FA025i2**  
Kit product

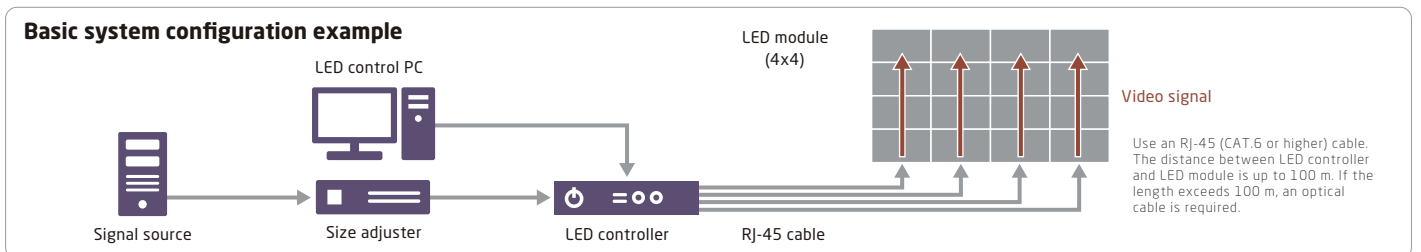
**275"** 3.1 mm pitch  
**LED-FA031i2**

**330"** 3.8 mm pitch  
**LED-FA038i2**

Each module size is common



Kit products are available to support multi-screen installations.

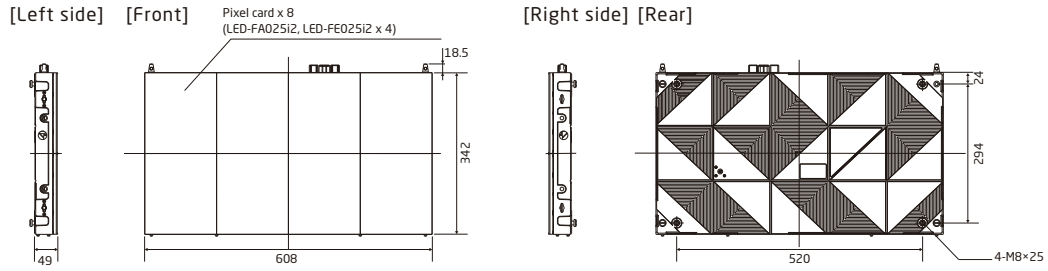
The LED display kit includes the equipment, installation frames, cables, etc. necessary for installation.

Kit products

Display size	Resolution	Kit product name	Kit contents
110" (4x4)	FHD (1920 x 1080)	LED-FA012i2-110	<ul style="list-style-type: none"> <li>LED display (multi-configuration) set</li> <li>LED controller (with wiring cable)</li> <li>Mounting frame set (decorative panel, cabinet hanger pin)</li> <li>Lower front cover</li> <li>Power bar (with power wiring and left and right side panels)</li> <li>Makeup panel set (top, side, connecting block)</li> <li>Complete back frame</li> <li>Various fixing screws</li> </ul>
	HD (1280 x 720)	LED-FA019i2-110	
137" (5x5)	FHD (1920 x 1080)	LED-FA015i2-137	
165" (6x6)	FHD (1920 x 1080)	LED-FA019i2-165	
220" (8x8)	4K (3840 x 2160)	LED-FA012i2-220	
	FHD (1920 x 1080)	LED-FA025i2-220	
	HD (1280 x 720)	LED-FA038i2-220	

Dimensions (mm)

- FA-series
- FE-series



Main specifications

- FA-series

Model	LED-FA012i2	LED-FA015i2	LED-FA019i2	LED-FA025i2	LED-FA031i2	LED-FA038i2
Pixel pitch	1.2 mm	1.5 mm	1.9 mm	2.5 mm	3.1 mm	3.8 mm
Resolution	480 × 270 pixel	384 × 216 pixel	320 × 180 pixel	240 × 135 pixel	192 × 108 pixel	160 × 90 pixel
Pixel configuration	3 in-1 SMD					
Brightness (max.)	800 cd/m <sup>2</sup>			1,200 cd/m <sup>2</sup>		
Contrast	5,000:1			7,000:1		
Colour reproduction	16 bit					
Viewing angle*	Left / right	85° / 85°			80° / 80°	
	Upper / lower	85° / 85°			70° / 70°	
Operating temperature / humidity	-20 to 40°C / 10 to 80% (with no condensation)					
Input power	100 to 240 V AC, 50/60 Hz					
Power consumption	All white	125 W			120 W	
	Max. brightness	125 W			120 W	
Weight / dimensions	8.8 kg / 608 (W) × 342 (H) × 49 (D) mm					
IP standards	Front / rear	IP20 / IP20				
Maintenance	Front					

- FE-series

Model	LED-FE012i2	LED-FE015i2	LED-FE019i2	LED-FE025i2	LED-FE031i2	LED-FE038i2
Pixel pitch	1.2 mm	1.5 mm	1.9 mm	2.5 mm	3.1 mm	3.8 mm
Resolution	480 × 270 pixel	384 × 216 pixel	320 × 180 pixel	240 × 135 pixel	192 × 108 pixel	160 × 90 pixel
Pixel configuration	3 in-1 SMD					
Brightness (max.)	700 cd/m <sup>2</sup>			1,000 cd/m <sup>2</sup>		
Contrast	4,000:1			5,000:1		
Colour reproduction	16 bit					
Viewing angle*	Left / right	80° / 80°			80° / 80°	
	Upper / lower	80° / 80°			70° / 70°	
Operating temperature / humidity	-20 to 40°C / 10 to 80% (with no condensation)					
Input power	100 to 240 V AC, 50/60 Hz					
Power consumption	All white	125 W			120 W	
	Max. brightness	125 W			120 W	
Weight / dimensions	8.8 kg / 608 (W) × 342 (H) × 49 (D) mm					
IP standards	Front / rear	IP20 / IP20				
Maintenance	Front					

\*Brightness half angle

Comparison by series

Series	FA-series	FE-series	
Installation	Wide viewing angle pixel configuration 3-in-1 SMD	Yes	Yes
	LED module with an aspect ratio of 16:9	Yes	Yes
	No wiring on the back	Yes	Yes
	Module docking connector (power supply / video signal)	Yes	Limited*
	LED display kit model	Yes	-
Reliability	Redundant power supply and video signal	Yes	-

\*Supply by connector connection is only power. Video signals are connected via LAN cables from the upper and lower halls of the cabinet.

Pursuing high reliability

- FA-series

The FA series ensures redundancy by duplicating video and power connections. If a particular LED module fails, other LED modules can continue to display multi-screen images without being affected.

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