

# NEC Direct View LED FA Series and FE Series





## FA Series

### High-Class Components To Achieve Extreme Levels Of Visual Performance

Sharp/NEC's dv LED solutions are engineered with innovative and patented SMD Multi-Color LEDs, for excellent image quality. Only the best batch of Multi-Color diodes are selected which offer wider viewing angles and humidity proof operation.

Reality-like image presentation can be achieved without interruption from bezels or gaps, delivering excellent viewing angles, consistent vibrant colours and superb brightness. Delivering extreme levels of visual performance where the finest detail matters the most; Sharp/NEC's LED FA modules and bundles offer a premium solution available in four standard sized bundles up to 220" or custom-sized, the 16:9 modules configure to deliver excellent viewing experiences and unmatched longevity and reliability.

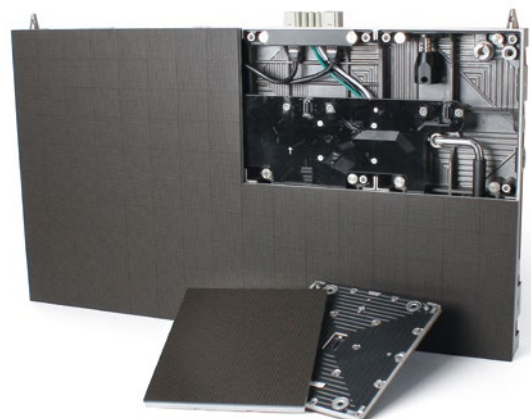
## Benefits

- **Secure performance for demanding applications** - with high-end components and redundant module design with additional power supply and data cards to ensure ongoing operations with a minimal loss of brightness levels.
- **Superb readability in bright light environments** - high brightness levels of up to 1200 cd/m<sup>2</sup>, along with wide viewing angles result in perfect images even under varying and demanding ambient conditions.
- **Crystal-clear image** - high contrast rate of up to 7000:1 with optional SuperBlack LEDs deliver clear messages to your audience.
- **Comfortable installation** - quick lock devices guarantee fast and easy installation and maintenance. All modules are connected tightly and create a seamless canvas.
- **Fire-resistant and robust housing** - Aluminum housing ensures passive cooling, has a high fire resistance, is stable during handling and provides the infrastructure to support perfect alignment between pixel cards.



### Full Redundancy For Mission-Critical Applications

All Sharp/NEC LED products are meticulously designed and built for reliable long-lasting performance; the FA Series features additional fail-safe qualities with redundant power supply and receiver card ensuring mission-critical performance standards. Select your pixel pitch according to room size and viewing distance parameters. An off-the-shelf solution for large surface visualisation in control rooms and passenger terminals; anywhere where fail-safe performance is critical.



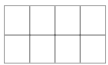


## FE Series

### Flexible Visualisation At Perfect Price/Performance Level

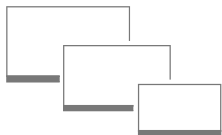
Scalable, fine-pitch visualisation for indoor bezel-free large surfaces, the FE Series offers pixel pitch options to suit usage and budget parameters. SMD Multi-Color LEDs\* result in excellent viewing angles, consistent reality-like colours, superb brightness and long-lasting performance for conferencing and signage application.

Either free standing or for seamless integration into interiors, the FE Series provides an off-the-shelf, all-in-one solution for large digital surfaces from 110" to 220" as well as unlimited scalability and customisable flexibility. Easy to maintain and upgrade with front serviceable pixel cards; everything's included for straight forward deployment and fuss-free operation.

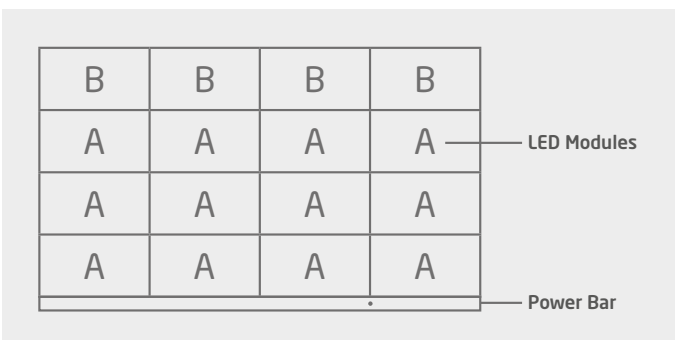


Modules and Bundles versions

110" 137" 165" 220"



### Bundle Configuration

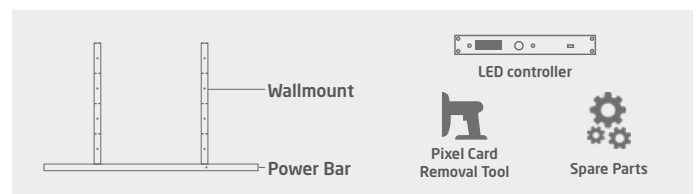


## Benefits

- **Care-free installation** – with bundled solutions that deliver all you need to get your LED video wall up and running.
- **Large scale for perfectly detailed imagery** – completely bezel-free design with high contrast rates deliver an unhindered viewing experience.
- **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.
- **Visual excellence** – high contrast and high brightness is inherent in LED delivery, benefit from NEC's long-lasting quality.
- **Fire-resistant and robust housing** - Aluminum housing ensures passive cooling, has a high fire resistance, is stable during handling and provides the infrastructure to support perfect alignment between pixel cards.



## Included Components



\*Applies to pixel pitches 0.95 to 1.9mm

# Specifications

## FA Series | Indoor FinePitch LED Modules

	FA009i2	FA012i2*	FA015i2*	FA019i2	FA025i2	FA031i2	FA038i2
Order Code	80000290	80000017	80000018	80000019	80000020	80000021	80000022
Pixel Configuration	4-in-1 IMD (Black)	3-in-1 SMD (Black)	3-in-1 SMD (Black)	3-in-1 SMD (Black)	3-in-1 SMD (Black)	3-in-1 SMD (Black)	3-in-1 SMD (Black)
LED type	IMD (1616)	SMD (1010)	SMD (1010)	SMD (1010)	SMD (1515)	SMD (1515)	SMD (1515)
Resolution per m <sup>2</sup>	1108033	623269	398892	277008	155817	99723	69252
Pixel Pitch [mm]	0.95	1.266	1.583	1.9	2.533	3.167	3.8
Brightness (max.) [cd/m <sup>2</sup> ]	600	800	800	800	1200	1200	1200
Lifetime	100000 hours (50% brightness)			100000 hours (50% brightness)			
Contrast Ratio (typ.)	5000:1	5000:1	5000:1	5000:1	7000:1	7000:1	7000:1
Viewing Angle [°]	140 horizontal / 140 vertical	170 horizontal / 170 vertical			160 horizontal / 140 vertical		
Colour Processing	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit
LED Driving Method	1/46 dynamic scan	1/27 dynamic scan	1/27 dynamic scan	1/30 dynamic scan	1/30 dynamic scan	1/27 dynamic scan	1/15 dynamic scan
Refresh Rate [Hz]	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840
Colour Temperature [K]	3000 - 9500 adjustable / 6500 default			3000 - 9500 adjustable / 6500 default			
Power Typical [W] m <sup>2</sup>	380	315	275	275	225	225	225
Power Maximum [W] m <sup>2</sup>	720	600	600	600	575	575	575
Dimensions (W x H x D) [mm]	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49
Weight [kg] Module	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Serviceability	Front	Front	Front	Front	Front	Front	Front
IP Level (Front/Rear)	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Certifications	CE, FCC Class A, RoHS				CE, FCC Class A, RoHS		
Warranty	3 years (options to extend)				3 years (options to extend)		
Available Standard Resolution Sizes	110" QHD, 165" UHD	110" FHD, 220" UHD	137" FHD	110" HD, 165" FHD	220" FHD	-	-

\*FA SuperBlack Pixel Card Option available

## FE Series | Indoor FinePitch LED Modules

	FE009i2	FE012i2	FE015i2	FE019i2	FE025i2	FE031i2	FE038i2
Order Code	80000351	80000145	80000146	80000147	80000148	80000149	80000150
Pixel Configuration	4-in-1-IMD (Black)	3-in-1 SMD (Black)	3-in-1 SMD (Black)	3-in-1 SMD (Black)	3-in-1 SMD (Black)	3-in-1 SMD (Black)	3-in-1 SMD (Black)
LED type	IMD (1616)	SMD (1010)	SMD (1010)	SMD (1010)	SMD (1415)	SMD (1415)	SMD (1415)
Resolution per m <sup>2</sup>	1108033	623269	398892	277008	155817	99723	69252
Pixel Pitch [mm]	0.95	1.266	1.583	1.9	2.375	2.714	3.8
Brightness (max.) [cd/m <sup>2</sup> ]	600	700	700	700	1000	1000	1000
Lifetime	100000 hours (50% brightness)			100000 hours (50% brightness)			
Contrast Ratio (typ.)	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1
Viewing Angle [°]	140 horizontal / 140 vertical	170 horizontal / 170 vertical			160 horizontal / 140 vertical		
Colour Processing	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit
LED Driving Method	1/46 dynamic scan	1/27 dynamic scan	1/27 dynamic scan	1/30 dynamic scan	1/27 dynamic scan	1/27 dynamic scan	1/15 dynamic scan
Refresh Rate [Hz]	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840
Colour Temperature [K]	3000 - 9500 adjustable / 6500 default			3000 - 9500 adjustable / 6500 default			
Power Typical [W] m <sup>2</sup>	380	315	275	275	225	225	225
Power Maximum [W] m <sup>2</sup>	720	600	600	600	575	575	575
Dimensions (W x H x D) [mm]	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49
Weight [kg] Module	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Serviceability	Front	Front	Front	Front	Front	Front	Front
IP Level (Front/Rear)	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Certifications	CE, ETL, FCC Class A, RoHS				CE, ETL, FCC Class A, RoHS		
Warranty	3 years (options to extend)				3 years (options to extend)		
Available Standard Resolution Sizes	110" QHD, 165" UHD	110" FHD, 220" UHD	137" FHD	110" HD, 165" FHD	220" FHD	-	-

FA and FE Series  
are ideal for:



**Sharp NEC Display Solutions Europe GmbH**  
 Landshuter Allee 12-14  
 80637 Munich, Germany  
 Phone: +49 (0) 89 99 699-0  
 Fax: +49 (0) 89 99 699-500

This document is © Copyright 2022 Sharp NEC Display Solutions Europe GmbH. All rights are reserved in favour of their respective owners. The document, or parts thereof, should not be copied, adapted, redistributed, or otherwise used without the prior written permission of Sharp NEC Display Solutions Europe GmbH. This document is provided "as is" without warranty of any kind whatsoever, either express or implied. Errors and omissions are excepted. Sharp NEC Display Solutions Europe GmbH may make changes, revisions or improvements in, or discontinue the supply of any product described or referenced in this document at any time without notice.

[www.sharpedisplays.eu](http://www.sharpedisplays.eu)

**SHARP / NEC**