



Direct View LED

Any size, any shape, any application

SHARP / NEC

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The Scope of our Services

The LED Solutions Centre stands for innovative technology and high quality products, developed and built according to customer requirements and the latest technical standards. We expertly design, develop, build, and install display systems for corporate, advertising, retail, creative and sports market segments.

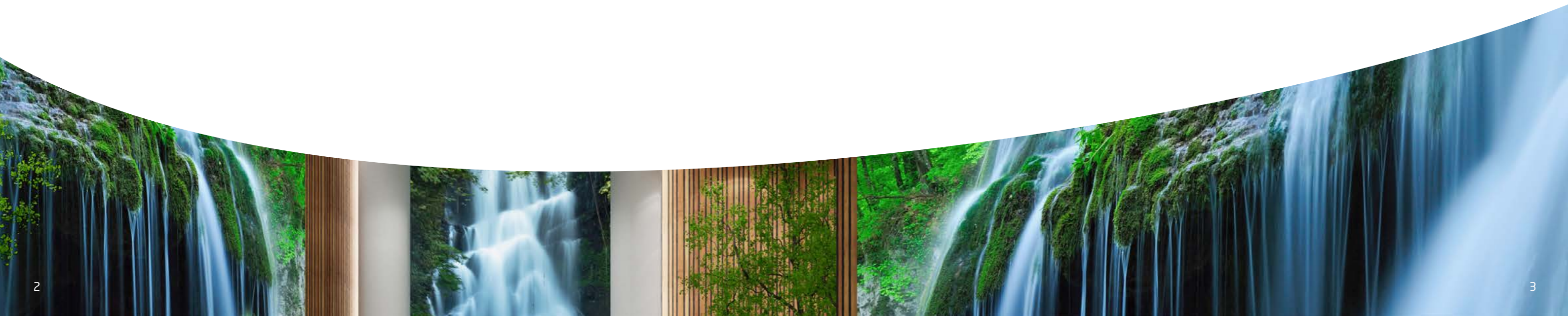
Based in Schwanstetten near Nuremberg, Germany, we offer our customers a "one-stop-shop" solution, from the planning and approval stage to the production and installation phase, alongside a

range of service programs to ensure our customers enjoy all the long-life benefits of stunning LED technology.

As well as supplying standard products, we offer a wide range of customised solutions designed to meet the unique requirements of our customers' projects. Our LED modules are available in a choice of pixel pitches and with an array of features tailored to specific environments. The LED Solutions Centre has the expertise to make your vision become reality.

LED Solutions Centre Service Advantage

- Consulting
- Design
- Production
- Construction
- Training
- After Sales Service



Any size, any shape, any application

With a size, shape, features, and price point matching any application requirement, with LED from Sharp/NEC you won't ever have to compromise on quality.

The appeal of LED technology is the perception of a single vast canvas created by individual LED modules that are precisely aligned and perfectly calibrated. Achieving a stunning, long-lasting visual impression is contingent upon build quality, which is where Sharp/NEC stands apart.

We offer a comprehensive range of LED solutions to fulfil the requirements for every application type from entry level to highly complex deployments. But what is common across ALL of these ranges is our consistent attention to detail, high quality components, and industry-leading service and support. Sharp/NEC is trusted for long-lasting reliability.



PIXEL PITCH	0.9	1.2	1.5	1.8	1.9	2.5	2.6	2.8	3.1	3.8	3.9	4.0	6.7	10
Essential Indoor														
E Series	○	●	●	●	○	●	○	○	○	○	○	○	○	○
FE- E Series	○	●	●	○	●	○	○	○	○	○	○	○	○	○
Mainstream Indoor and Outdoor														
FE Series	●	●	●	○	●	●	○	○	●	●	○	○	○	○
Q Series	○	○	○	○	○	○	○	●	○	○	●	○	○	○
High End Indoor														
FA Series	●	●	●	○	●	●	○	○	●	●	○	○	○	○
FC Series	●	●	●	○	○	○	○	○	○	○	○	○	○	○
B Series	○	○	○	○	○	●	○	○	○	○	●	○	○	○
Customised Solutions Indoor and Outdoor														
C Series*	○	○	○	○	○	○	●	○	○	○	●	○	●	●
S Series	○	○	○	○	○	○	○	●	○	○	○	●	●	○

* More pixel pitches are available upon request

Widest Portfolio

Indoor and outdoor LED modules scale up to create attention grabbing walls of intensely vivid images for the brightest environments, available in a range of pixel pitches for up-close or long-distance viewing.

High quality, precision engineered components configure to create a single homogenous digital canvas, purpose-designed for easy maintenance and long-life performance. components included to configure your digital canvas. Non- bundled modules offer unlimited creativity to scale up to any size, any shape, any application.

Our LED bundles offer convenient 'all-in-one' solutions in standardised size options with all

dvLED	Indoor LED 0.9mm to 3.9mm Outdoor LED 2.8mm to 10mm
E Series Bundles	Entry Level visualisation with ready-to-go size and pixel options
FE-E Series	Mainstream scalable visualisation with cost and eco savings
FE Series	Flexible visualisation at the perfect price performance level
FE Series Bundles	Standard resolution bundles for signage and conferencing
FA Series	High class components and full redundancy for mission critical applications
FA Series Bundles	Fully redundant standard resolution bundles for mission critical applications
FC Series	Energy efficient fine-pitch modules with robust reliability and extreme contrast
FC Series Bundles	Standardised solutions for robust reliability and energy efficiency
Q Series	Square modules for indoor and outdoor signage applications
B Series	Modules with EMC Class B certification for sizes up to 40m ²
C Series	Customisable modules to fit indoor and outdoor applications
S Series	Slim, light weight modules with high protection level and high brightness

Advertising

Do you feel your product deserves more attention? Do you want to boost its profile? Then put it on a big screen. After all, that's where starlets become superstars. Give your advertising the scale it deserves!

Outdoor Advertising Displays

Get your product seen. Our Outdoor Advertising Displays present targeted content to a wide audience. No matter whether static or dynamic content, Outdoor Advertising Displays at highly frequented places guarantee a high degree of attention.

Indoor Advertising Displays

Make an impact. Our Indoor Advertising Displays grab the attention of everyone who enters the building, driving awareness to your brand. At any time of day or night you can show target group specific content and achieve the greatest possible advertising benefit.



Recommended

FE Series, FC Series, C Series, S Series,
Q Series

Ku'damm Eck
Berlin, Germany
C Series





Adidas HQ
Herzogenaurach, Germany
FE Series

Corporations

You want to present your company in an impressive way? You want to show both your employees and your customers that you believe in what you do? With our stunning corporate LED solutions you will present the brightest credentials.

Public Information Displays

Public Information Displays sweeten the wait – whether at the bus stop, the train station, or the airport. Providing entertainment in public places, Public Information Displays deliver a positive experience for viewers. From a practical point of view, they also ensure that viewers quickly receive information relevant to them.

Entrance Areas

Let visitors know what's waiting for them. A screen in the entrance area welcomes visitors with the information they need such as wayfinding and welcoming guidance. Or it simply serves to entertain guests. In any case, it ensures that visitors feel they are being well taken care of.

Digital Direction Systems

Direct your audience with wayfinding messaging using eye-catchingly shaped signposts delivering relevant information in a dynamic and colourful way

Conference and Meeting Rooms

Get the attention of your clients and employees the moment they set foot in your conference room with indoor LED solutions in a size and shape to fulfill your needs including extra-wide panoramic video conferencing for hybrid workflows. Fascinate them with a presentation in High Definition and brilliant colours, to make a lasting impression.



Recommended

E Series, FE-E Series, FE Series, FA Series, FC Series, C Series

Creative

Let there be light. Nowadays, light designers and architects are conceiving some truly incredible creations in public spaces. Boring, grey buildings are transformed into glowing sculptures. But is it all just a facade? Far from it! Interior spaces also receive their fair share of special features.

Media Facades

Our Media Facades give a touch of glamour, turning a simple building into a beacon in the urban landscape. Boring office buildings are transformed into works of art, dreary tower blocks into gigantic advertising columns, and monotonous purpose-built edifices into popular postcard scenes. Media Facades transform not only the attractiveness of buildings, but also their popularity, turning them into icons.

Amorphous Displays

Amorphous Displays enable unlimited creativity. They make it possible to realise curved and round shapes in LED installations. They deliver panache and exclusivity wherever a square display simply isn't enough.

Semi-transparent Displays

Semi-transparent Displays allow you to see through to the other side. They are ideal for effectively dividing a room, becoming living walls with a constantly changing surface to captivate audiences. By allowing the viewer to see beyond the display the venue achieves a greater sense of space.

Media Installations

Truly bringing art to life, Media Installations add the finishing touch to architectural gems putting the icing on the cake for modern works of art. Embedded into buildings, they breathe life into otherwise static constructions.



Recommended

C Series, S Series



A&O
Luxemburg
S Series



Retail

Grasp the attention of passers-by, entice them in to your shop, mall or flagship store. In an environment where digital noise is at its highest, make your brand stand out from the crowd with high impact outdoor signage. Once inside, inspirational content targets shoppers with relevant messaging to achieve sales uplift and maximise return on investment.

LED Walls & Window Displays

A digital screen's power of attraction is phenomenal. Equip your salesrooms with our displays and impress your customers. Inspire them with advertising mirroring the messages they see on TV and online, but now in life-size, proven to increase the level of spontaneous purchase.

Stair & Ticker Displays

Deliver a continuous stream of messaging allowing a lot of information to be given in a small space. Or play creative format videos encouraging shoppers to linger longer or entice them to other floors. Bring branding to life in interesting ways and make use of, and monetise, otherwise unusable space.

Sales Counters

Bars and counters equipped with integrated LED displays are genuine eye catchers, drawing attention and creating an entertainment zone right in the middle of your shop floor. Ideal for point-of-sale promotions.

Steles and Pillars

LED steles and pillars are lighthouses for your customers providing orientation around your salesfloor. We offer LED steles and pillars in various sizes and resolutions.



Recommended

E Series, FE-E Series, FE Series, C Series, S Series

Sports

It doesn't matter if it's a marriage proposal in front of millions or a buzzer-beating goal to win the match, stadium displays deliver more than just sharp images – they convey emotion. With this in mind, we'd like to present a selection of our top "emotion amplifiers"

Centre Hung Cubes

The central focal point for important and entertaining information in the stadium or arena, the Centre Hung Cube is positioned directly above the field and allows spectators to view replays, slow-motion sequences and the scores without taking their attention away from the action. A quick look up allows viewers to stay up to date, while the playing field remains in their peripheral vision

Scoreboards

Whether it's the team line-up, the current score, or the remaining playing time, Scoreboards provide the spectator with a wealth of information covering all aspects of the game. Missed what the announcer said under the fans' chants? No problem, it's right there on the scoreboard – clearly legible and displayed in colour.

Fascias

The news ticker below the displays keeps the crowd up to date in the truest sense of the word. On one fascia, information can be displayed as if on a moving band for everyone in the stadium or arena

to see. The motion effect really catches spectators' attention, and they can also display pictures and animations.

Perimeters

Providing variation within the perimeter advertising, these displays offer a source of revenue and can be instantly updated for each event. A Perimeter opens a completely new dimension for advertising, including the possibility of using animation and video to inspire spectators.



Recommended

Q Series, C Series, S Series



SAP Arena
Mannheim, Germany
C Series



Stockholm Airport
Stockholm, Sweden
B Series

Resilience

Critical infrastructure and sensitive application areas demand the highest security and failsafe reliability. For emergency services, defence operations, transportation and utility sectors, our class-leading products bring confidence and peace of mind.

Aviation & Transportation

Sharp/NEC's aluminium housing is both fire-retardant and effective in blocking electromagnetic and radio frequency interference, whilst redundant components ensure failsafe reliability. From monitoring road and rail networks to air traffic control, and safeguarding against potential threats, there can be no compromise to public safety and security.

For busy public spaces such as transport terminals, it is vital to limit electromagnetic interference which can compromise wireless and mobile data connections and, crucially, air traffic control operations. The B Series is fully compliant to EMC Class B causing no interference for screen sizes up to 40 m².

Command & Control / Surveillance

Fine pitch LED modules configure large digital surfaces in ultra-high definition enabling multiple people to visualise information in the greatest detail and clarity. Instant situational awareness is paramount in facilitating informed decisions in the shortest possible time, demanding seamless access to unlimited and varied data sources.

Partnering with Hiperwall network-based videowall control systems, a control room solution from Sharp/NEC offers unlimited flexibility. Purpose-designed to deliver comprehensive system redundancy and resilience against failure, Sharp/NEC and Hiperwall are trusted

to safeguard data security and business continuity in uncompromising 24/7 environments.



Recommended

B Series, FA Series, FE Series

Controlling Components

Convenient and user-friendly control over highly sensitive environments and strict EMC demands requires a high performance control system. The SX[Master] LED display controller is designed to fulfil special demands particularly relevant for the LED B Series. It processes all system status parameters, including the data of SX[TempControl], brightness, LED failures and calibration data. All SX products were developed by the former S[quadrat] GmbH and will be continued under the brand S[quadrat].

S[quadrat] SX[On/Off]

Simplifies the connection and disconnection of a LED screen from the main supply. The sequential commission prevents power peaks. Switching can be done either via a button on a 3U master unit in the control cabinet or via the internet

S[quadrat] SX[BrightnessControl]

Automatically regulates the brightness of the LED screen depending on surrounding light conditions. The highest and lowest brightness values are individually adjustable.

Fire-safety and monitoring

For continuous and fault-free operation of LED screens it is important to monitor the operational temperature of all electrical components and to inform decentrally about abnormal operating states. Therefore, our R&D team in Schwanstetten developed proven warning systems to provide dependable safety and maintain high quality standards.

The temperature warning system SX[TempControl] timely alerts as soon as the temperature of the LED screen is beyond the normal range. It provides reliable

fire protection and also secures the protection of sensitive semiconductors due to early detection of defective fans or polluted ventilation channels. SX[TempControl] can be combined with SX[TC_SNMP] to monitor the temperature decentrally. SX[PowerControl] helps to monitor the power supplies of LED display systems. SX[AirControl] automatically regulates the air conditioning. SX[SecureControl] monitors the protective screen. All of these preventive measures extend the lifetime of the entire LED display system.



[LEARN MORE](#) About why fire safety is of critical concern and how Sharp/NEC products are trusted for their proven fire safety compliance



Making life easier with Sharp/NEC using strong tools to power videowalls and distributed visualisation systems with flexibility, scalability and user-centred simplicity.

Hiperwall

The IP based video wall content and source management software is the preferred choice for mission critical applications such as control rooms to visualise vast amounts of information from multiple data sources. Highest flexibility allows the operator to manipulate and visualise crucial real-time content.

NaViSet Administrator 2

An essential tool for large estates, the all-in-one NaViSet Administrator 2 software enables IT administrators to remotely manage their network of Sharp/NEC display and projector

devices and Windows PCs. In multi-device environments, this system simplifies the handling and control of devices helping to keep maintenance costs low, minimise downtime and ensure the efficient use of resources.



Technical Specifications

Essential Indoor

E Series | Indoor Fine-Pitch LED Bundles

	E012i-108	E015i-135	E018i-162	E012i-217	E025i-217	FE012i2-E	FE015i2-E	FE019i2-E
Order Code	81000231	81000232	81000233	81000342	81000343	81000224	81000225	81000226
Resolution	1920 x 1080	1920 x 1080	1920 x 1080	3840 x 2160	1920 x 1080	-	-	-
LED Type	SMD (1010)	SMD (1212)	SMD (1415)	SMD (1010)	SMD (2121)	SMD (1010)	SMD (1010)	SMD (1010)
Module Configuration	4 x 4	5 x 5	6 x 6	8 x 8	8 x 8	-	-	-
Pixel Pitch [mm]	1.25	1.563	1.875	1.2	2.5	1.267	1.583	1.9
Brightness (max.) [cd/m ²]	600	600	800	600	1000	600	600	600
Lifetime	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	5000:1	4000:1	5000:1	5000:1	7000:1	4000:1	4000:1	4000:1
Viewing Angle [°] hor / ver	170 / 160	140 / 140	140 / 140	170 / 160	160 / 155	160 / 160	160 / 160	160 / 160
Colour Processing	16 bit	16 bit	14 bit	16 bit	18 bit	16 bit	16 bit	16 bit
LED Driving Method	1/45 dynamic scan	1/54 dynamic scan	1/60 dynamic scan	1/45 dynamic scan	1/27 dynamic scan	1/27 dynamic scan	1/27 dynamic scan	1/27 dynamic scan
Refresh Rate [Hz]	3840	3840	3840	≤ 3840	≤ 3840	3840	3840	3840
Colour Temperature [K]	3000-9500	3000-9500	3000-9500	3000-9500	3000-9500	3000-9500	3000-9500	3000-9500
Power Typical [W]	944	1000	1944	3776	2560	315	275	275
Dimensions (W x H x D) [mm]	2412 x 1456 x 47	3012 x 1793,5 x 47	3612 x 2131 x 47	4812 x 2806 x 50	4812 x 2806 x 50	608 x 342 x 49	608 x 342 x 49	608 x 342 x 49
Weight [kg]	89.2	134.5	189.2	342.8	342.8	8,8	8,8	8,8
Connectivity via Controller	3G SDI; DVI-D; HDMI; GenLock; LAN			3G SDI; DVI-D; HDMI; GenLock; LAN		-	-	-
Serviceability	Front	Front	Front	Front	Front	Front	Front	Front
IP Level (Front/Rear)	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Certifications	CE, ETL, FCC Class A, RoHS					CE, ETL, FCC Class A, RoHS		
Shipping Content	LED Controller, LED Modules, Overframe Kit, Power Bar, Wall Mount, Spare Parts Kit, Pixel Card Removal Tool					-	-	-
Warranty	2 years (options to extend)					2 years (options to extend)		

Mainstream Indoor and Outdoor

FE Series | Indoor Fine-Pitch 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 ²	1108033	623269	398892	277008	155817	99723	69252
Number of Pixel per module [dot]	230400	129600	82944	57600	32400	20736	14400
Number of Pixel per card [dot]	28800	16200	10368	7200	8100	2592	1800
Pixel Pitch [mm]	0.95	1.266	1.583	1.9	2.375	2.714	3.8
Brightness (max.) [cd/m ²]	600	700	700	700	1000	1000	1000
Lifetime	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1
Viewing Angle [°] hor / ver	140 / 140	170 / 170	160 / 160	170 / 170	160 / 160	160 / 160	160 / 160
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						
Power Typical [W] m ²	380	300	275	275	225	225	225
Power Maximum [W] m ²	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			
IP Level (Front/Rear)	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Certifications	CE, ETL, FCC Class A, RoHS						
Warranty	3 years (options to extend)						

* FE-E pixel card option available ** Power Bar not included for FE009i2-104

FE Series Bundles | Indoor Fine-Pitch LED Bundles*

	FE009i2-104	FE009i2-110*	FE009i2-165	FE012i2-110	FE012i2-220	FE015i2-137	FE019i2-110	FE019i2-165	FE025i2-220
Order Code	81000450	81000291	81000112	81000028	81000050	81000020	81000027	81000029	81000030
Screen Size [inch/cm]	104 / 264	110 / 279.4	165 / 419	110 / 279	220 / 559	137 / 348	110 / 279	165 / 419	220 / 559
Resolution	2560 x 1080	2560 x 1440	3840 x 2160	1920 x 1080	3840 x 2160	1920 x 1080	1280 x 720	1920 x 1080	1920 x 1080
Module Configuration	4 x 3	4 x 4	6 x 6	4 x 4	8 x 8	5 x 5	4 x 4	6 x 6	8 x 8
Pixel Configuration	4-in-1 IMD (Black)			3-in-1 SMD (Black)					
LED type	IMD (1616)	IMD (1616)	IMD (1616)	SMD (1010)	SMD (1010)	SMD (1010)	SMD (1010)	SMD (1010)	SMD (1415)
Pixel Pitch [mm]	0.95	0.95	0.95	1.266	1.266	1.583	1.9	1.9	2.533
Brightness (max.) [cd/m ²]	600	600	600	700	700	700	700	700	1000
Lifetime	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1
Viewing Angle [°] hor / ver	140 / 140	140 / 140	140 / 140	170 / 170	170 / 170	170 / 170	170 / 170	170 / 170	160 / 140
Colour Processing	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit
LED Driving Method	1/46 dynamic scan	1/46 dynamic scan	1/46 dynamic scan	1/27 dynamic scan	1/27 dynamic scan	1/27 dynamic scan	1/30 dynamic scan	1/30 dynamic scan	1/27 dynamic scan
Refresh Rate [Hz]	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840
Colour Temperature [K]	3000 - 9500 adjustable / 6500 default					3000 - 9500 adjustable / 6500 default			
Power Typical [W]	960	1280	380	912	3648	1425	912	2052	3008
Dimensions (W x H x D) [mm]	2472 x 1066 x 82	2472 x 1489.5 x 82	3688 x 2173,5 x 81	2472 x 1498,5 x 81	4904 x 2875,5 x 81	3080 x 1831,5 x 81	2472 x 1498,5 x 81	3688 x 2173,5 x 81	2472 x 1498,5 x 81
Weight [kg]	115.6	182	390	251	987	372	251	494	987
Bezel Width T-L-R / B [mm]	20-20-20 / 20	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100
Connectivity via Controller	DP, HDMI, GenLock, LAN	3G SDI, DVI-D, HDMI, GenLock, LAN	DP, HDMI, GenLock, LAN	DP, HDMI, GenLock, LAN	DP, HDMI, GenLock, LAN	DP, HDMI, GenLock, LAN	DP, HDMI, GenLock, LAN	HDMI, DVI-D, 3G-SDI, LAN, GenLock	
Serviceability	Front	Front	Front	Front	Front	Front	Front	Front	Front
IP Level (Front/Rear)	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Certifications	CE, ETL, FCC Class A, RoHS					CE, ETL, FCC Class A, RoHS			
Shipping Content	LED Controller, LED Modules, Overframe kit, Pixel Card removal Tool, Power Bar**, Spare Parts Kit, Wall Mount								
Warranty	3 years (options to extend)					3 years (options to extend)			

Q Series | Indoor and Outdoor Signage

	Q028i2	Q039i2	Q028e2	Q039e2	Q048e2
Ordercode	80000023	80000024	80000027	80000028	80000029
Pixel Configuration	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	SMD (2121)	SMD (2121)	SMD (1415)	SMD (1921)	SMD (1921)
Resolution per m ²	123904	65536	123904	65536	
Number of Pixel per module [dot]	176 x 176	128 x 128	176 x 176	128 x 128	104 x 104
Pixel Pitch [mm]	2.841	3.91	2.84	3.91	4.8
Brightness (max.) [cd/m ²]	1200	1200	4000	5500	5500
Lifetime	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	7.000:1	7.000:1	7.000:1	6000:1	6000:1
Viewing Angle [°] hor / ver	160 / 140	140 / 140	140 / 140	140 / 120	140 / 140
Colour Processing	256 levels	256 levels	256 levels	256 levels	256 levels
Colours	16 bit	16 bit	16 bit	16 bit	16 bit
LED Driving Method	1/22 dynamic scan	1/16 dynamic scan	1/22 dynamic scan	1/8 dynamic scan	1/13 dynamic scan
Refresh Rate [Hz]	< 3840	< 3840	< 3840	< 3840	< 3840
Colour Temperature [K]	3200 - 9300	3200 - 9300	3200 - 9300	3200 - 9300	3200 - 9300
Power Typical [W] m ²	200	200	270	240	240
Power Maximum [W] m ²	480	480	720	640	640
Dimensions (W x H x D) [mm]	500 x 500 x 70	500 x 500 x 70	500 x 500 x 70	500 x 500 x 70	500 x 500 x 70
Weight [kg]	8.3	8.3	8.5	8.5	8.5
Dimension Pixelcard (W x H) [mm]	250 x 250	250 x 250	250 x 250	250 x 250	250 x 250
Serviceability	Front; Rear Service		Front; Rear Service		
IP Level (Front/Rear)	IP30	IP30	IP65	IP65	IP65
Certifications	CE, ETL, FCC Class A, RoHS				
Warranty	2 years (options to extend)				

High-End Indoor

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 ²	1108033	623269	398892	277008	155817	99723	69252
Number of Pixel per module [dot]	230400	129600	82944	57600	32400	20736	14400
Number of Pixel per card [dot]	28800	16200	10368	7200	8100	2592	1800
Pixel Pitch [mm]	0.95	1.266	1.583	1.9	2.533	3.167	3.8
Brightness (max.) [cd/m ²]	600	800	800	800	1200	1200	1200
Lifetime	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	5000:1	5000:1	5000:1	5000:1	7000:1	7000:1	7000:1
Viewing Angle [°] hor/ver	140 / 140	170 / 170	170 / 170	170 / 170	160 / 160	160 / 160	160 / 160
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						
Power Typical [W] m ²	380	315	275	275	225	225	225
Power Maximum [W] m ²	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						
Warranty	3 years (options to extend)						

FA Series Bundles | Indoor Fine-Pitch LED

	FA009i2-110	FA009i2-165	FA012i2-110	FA012i2-220	FA015i2-137	FA019i2-110	FA019i2-165	FA025i2-220
Order Code	81000290	81000101	81000002	81000021	81000004	81000003	81000005	81000006
Screen Size [inch/cm]	110 / 279.4	165 / 419	110 / 279	220 / 559	137 / 348	110 / 279	165 / 419	220 / 559
Resolution	2560 x 1440	3840 x 2160	1920 x 1080	3840 x 2160	1920 x 1080	1280 x 720	1920 x 1080	1920 x 1080
Module Configuration	4 x 4	6 x 6	4 x 4	8 x 8	5 x 5	4 x 4	6 x 6	8 x 8
Pixel Configuration	4-in-1 IMD (Black)	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)	IMD (1616)	SMD (1010)	SMD (1010)	SMD (1010)	SMD (1010)	SMD (1010)	SMD (1515)
Pixel Pitch [mm]	0.95	0.95	1.266	1.266	1.583	1.9	1.9	2.533
Brightness (max.) [cd/m ²]	600	600	800	800	800	800	800	1200
Lifetime	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1	7000:1
Viewing Angle [°] hor / ver	140 / 140	140 / 140	170 / 170	170 / 170	170 / 170	170 / 170	170 / 170	160 / 160
Colour Processing	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit
LED Driving Method	1/46 dynamic scan	1/46 dynamic scan	1/27 dynamic scan	1/27 dynamic scan	1/27 dynamic scan	1/30 dynamic scan	1/30 dynamic scan	1/27 dynamic scan
Refresh Rate [Hz]	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840	≤ 3840
Colour Temperature [K]	3000 - 9500 adjustable / 6500 default				3000 - 9500 adjustable / 6500 default			
Power Typical [W]	1280	2880	912	3648	1425	912	2050	3008
Dimensions (W x H x D) [mm]	2472 x 1489.5 x 82	3688 x 2173.5 x 81	2472 x 1498.5 x 81	4904 x 2875.5 x 81	3080 x 1831.5 x 81	2472 x 1498.5 x 81	3688 x 2173.5 x 81	2472 x 1498.5 x 81
Weight [kg]	182	390	251	660	372	251	494	987
Bezel Width T-L-R / B [mm]	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100
Connectivity (via Controller)	HDMI, DVI-D, 3G-SDI, LAN, GenLock							
Redundancy	LED Controllers, Power Supplies, Receiving Cards							
Serviceability	Front	Front	Front	Front	Front	Front	Front	Front
IP Level (Front/Rear)	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Certifications	CE, FCC Class A, RoHS, ETL	CE, FCC Class A, RoHS, ETL	CE, FCC Class A, RoHS	CE, FCC Class A, RoHS, ETL	CE, FCC Class A, RoHS			
Shipping Content	LED Controller, LED Modules, Overframe Kit, Pixel Card removal Tool, Power Bar, Spare Parts Kit, Wall Mount							
Warranty	3 years (options to extend)							

FA Series | Indoor Fine-Pitch Super Black LED Modules FC Series | Indoor Fine-Pitch LED Modules

	FA012i2-SB	FA015i2-SB
Order Code	81000120	81000122
LED Type	SMD (1010)	SMD (1010)
Number of Pixel per module [dot]	129600	82944
Number of Pixel per card [dot]	16200	10368
Pixel Pitch [mm]	1.267	1.583
Brightness (max.) [cd/m ²]	400	400
Lifetime	100000 hours	100000 hours
Contrast Ratio (typ.)	5000:1	5000:1
Viewing Angle [°] hor / ver	140 / 140	140 / 140
Colour Processing	16 bit	16 bit
LED Driving Method	1/27 dynamic scan	1/27 dynamic scan
Refresh Rate [Hz]	3840	3840
Colour Temperature [K]	3000-9500	3000-9500
Power Typical [W] m ²	315	275
Power Maximum [W] m ²	600	600
Dimensions (W x H x D) [mm]	608 x 342 x 49	608 x 342 x 49
Weight [kg] Module	8.8	8.8
Serviceability	Front	Front
IP Level (Front/Rear)	IP20	IP20
Certifications	CE, ETL, FCC Class A, RoHS	CE, ETL, FCC Class A, RoHS
Warranty	3 years (options to extend)	

	LED-FC009i	LED-FC012i	LED-FC015i
Order Code	81000376	81000378	81000380
Pixel Configuration	3-in-1 COB	3-in-1 COB	3-in-1 COB
LED Type	COB (0408)	COB (0408)	COB (0408)
Resolution per m ²	1108033	623269	398892
Number of Pixel per module [dot]	230400	129600	82944
Number of Pixel per card [dot]	28800	16200	10368
Pixel Pitch [mm]	0.95	1.267	1.583
Brightness (max.) [cd/m ²]	800	800	800
Lifetime	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	20.000:1	20.000:1	20.000:1
Viewing Angle [°] hor / ver	160 / 150	160 / 160	160 / 160
Colour Processing	16 bit	16 bit	16 bit
LED Driving Method	1/36 dynamic scan	1/45 dynamic scan	1/36 dynamic scan
Refresh Rate [Hz]	3840	3840	3840
Colour Temperature [K]	3000-9500	3000-9500	3000-9500
Power Typical [W] m ²	135	192	173
Power Maximum [W] m ²	289	337	313
Dimensions (W x H x D) [mm]	608 x 342 x 48,5	608 x 342 x 48,5	608 x 342 x 48,5
Weight [kg] Module	7	7	7
Serviceability	Front	Front	Front
IP Level (Front/Rear)	IP40 / IP20	IP40 / IP20	IP40 / IP20
Certifications	CE, ETL, FCC Class A, RoHS	CE, ETL, FCC Class A, RoHS	CE, ETL, FCC Class A, RoHS
Warranty	3 years (options to extend)		

FC Series Bundles | Indoor Fine-Pitch LED

	LED-FC009i-165	LED-FC012i-110	LED-FC012i-220	LED-FC015i-137
Order Code	81000477	81000478	81000479	81000480
Screen Size [Inch]	165	110	220	137
Resolution	3840x2160	1920x1080	1920x1080	1920x1080
Module Configuration	36	16	64	25
Pixel Configuration	3-in-1 COB	3-in-1 COB	3-in-1 COB	3-in-1 COB
LED Type	COB (0408)	COB (0408)	COB (0408)	COB (0408)
Pixel Pitch [mm]	0.95	1.26	1.26	1.58
Brightness (max.) [cd/m ²]	800	800	800	800
Lifetime	100000 hours	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	20.000:1	20.000:1	20.000:1	20.000:1
Viewing Angle [°] hor / ver	160 / 150	160 / 160	160 / 160	160 / 160
Colour Processing	16 bit	16 bit	16 bit	16 bit
LED Driving Method	1/36 dynamic scan	1/45 dynamic scan	1/45 dynamic scan	1/36 dynamic scan
Refresh Rate [Hz]	3840	3840	3840	3840
Colour Temperature [K]	3000-9500	3000-9500	3000-9500	3000-9500
Power Typical [W]	1008	640	2560	900
Dimensions (W x H x D) [mm]	3688 x 2173 x 82	2472 x 1489,5 x 82	4904 x 2857,5 x 82	3080 x 1831,5 x 82
Weight [kg]	325	153,2	543	234
Bezel Width T-L-R / B [mm]	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100	20-20-20 / 100
Connectivity via Controller	1 x DP; 1 x HDMI; 1 x GenLock; 1 x LAN	1 x 3G SDI; 1 x DVI-D; 1 x HDMI; 1 x GenLock; 1 x LAN	1 x DP; 1 x HDMI; 1 x GenLock; 1 x LAN	1 x 3G SDI; 1 x DVI-D; 1 x HDMI; 1 x GenLock; 1 x LAN
Serviceability	Front	Front	Front	Front
IP Level (Front/Rear)	IP40 / IP20	IP40 / IP20	IP40 / IP20	IP40 / IP20
Certifications	CE, ETL/UL, FCC Class A, RoHS	CE, ETL/UL, FCC Class A, RoHS	CE, ETL/UL, FCC Class A, RoHS	CE, ETL/UL, FCC Class A, RoHS
Shipping Content	LED Controller, LED Modules, Overframe Kit, Pixel Card Removal Tool, Power Bar, Spare Parts Kit, Wall Mount			
Warranty	3 years (options to extend)		3 years (options to extend)	

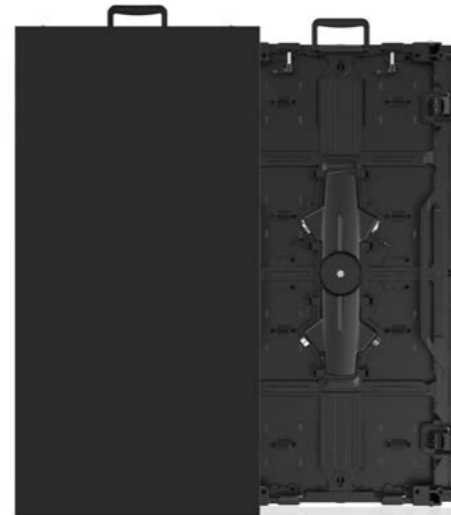
B Series

	B025i	B039i
Order Code	80001083	80000026
Resolution	-	-
Pixel Configuration	155817	65536
Module Configuration	200x200	128x128
LED Type	3-in-1 SMD (Black)	3-in-1 SMD (Black)
Pixel Pitch [mm]	SMD (2121)	SMD (2121)
Brightness (max.) [cd/m ²]	2.5	3.91
Lifetime	1000	1000
Contrast Ratio (typ.)	100000 hours	100000 hours
Viewing Angle [°] hor / ver	3000:1	3000:1
Colour Processing	160 / 160	160 / 160
LED Driving Method	16 bit	16 bit
Refresh Rate [Hz]	1/16 dynamic scan	1/16 dynamic scan
Colour Temperature [K]	2400	2400
Power Typical [W]	3200 - 9300 adjustable	3200 - 9300 adjustable
Dimensions (W x H x D) [mm]	136 (Max 400)	136 (Max 400)
Weight [kg]	320 x 320 x 36	500 x 500 x 78
Bezel Width T-L-R / B [mm]	9	9
Connectivity via Controller	-	-
Serviceability	Standard Rear, Front Optional	Standard Rear, Front Optional
IP Level (Front/Rear)	IP30	IP30
Certifications	CE, EMC Class B, RoHS, CCC	CE, EMC Class B, RoHS, CCC
Shipping Content	-	-
Warranty	2 years (options to extend)	2 years (options to extend)

Customised Solutions

C Series | Customisable LED Modules*

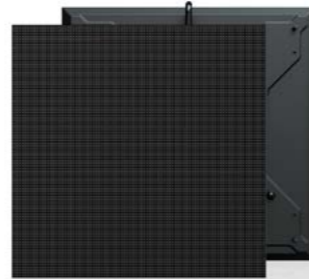
	C026i	C039i	C067Be	C100Be
Application Environment	In-/Outdoor	In-/Outdoor	Outdoor	Outdoor
Order Code	80000312	81000600	81000510	80000310
Pixel Configuration	3-in-1 SMD	3-in-1 SMD	3-in-1 SMD	3-in-1 SMD
LED Type	SMD (1415)	SMD (1921)	SMD (2727)	SMD (2727)
Resolution per m ²	147456	65536	22500	10000
Number of Pixel per module [dot]	192 x 192	128 x 128	144 x 144	96 x 96
Number of Pixel per card [dot]	96 x 192	64 x 128	48 x 48	48 x 32
Pixel Pitch [mm]	2.6	3.9	6.66	10
Brightness (max.) [cd/m ²]	≥ 5000	≥ 5500	≥ 6000	≥ 6000
Lifetime	100000 hours	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	4000:1	4000:1	5000:1	4000:1
Viewing Angle [°] hor/ver	140 / 140	140 / 140	140 / 140	140 / 140
Colour Processing	16 bit	16 bit	16 bit	16 bit
LED Driving Method	1/32 dynamic scan	1/16 dynamic scan	1/6 dynamic scan	1/2 dynamic scan
Refresh Ratio [Hz]	≤ 3840			
Colour Temperature [K]	3000 – 9500 adjustable / 6500 default			
Power Typical [W] m ²	258	230	260	260
Power Maximum [W] m ²	860	780	780	780
Dimensions (W x H x D) [mm]*	500 x 500 x 65	500 x 500 x 65	960 x 960 x 100	960 x 960 x 100
Weight [kg] Module	7.8	7.8	25	25
Serviceability	Front / Rear			
IP Level (Front/Rear)	IP65			
Operating Temperature [°C]	-20 / +45			
Certifications	CE, FCC Class A, RoHS, CCC			
Warranty	2 years (options to extend)			



Also available in module size 500 x 1000 and more to meet the requirements on-site.

S Series | Super Slim LED Modules

	S028i2	S040i2	S028e2	S040e2	S066e2
Application Environment	Indoor	Indoor	Outdoor	Outdoor	Outdoor
Order Code	80000544	80000545	80000833	80000546	81000601
Pixel Configuration	3-in-1 SMD	3-in-1 SMD	3-in-1 SMD	3-in-1 SMD	3-in-1 SMD
LED Type	SMD (1515)	SMD (1921)	SMD (1415)	SMD (1921)	SMD (2727)
Resolution per m ²	122500	62500	122500	62500	22500
Number of Pixel per module [dot]	112 x 112	80 x 80	112 x 112	80 x 80	48 x 48
Number of Pixel per card [dot]	112 x 112	80 x 80	112 x 112	80 x 80	48 x 48
Pixel Pitch [mm]	2.85	4	2.85	4	6.66
Brightness (max.) [cd/m ²]	≥ 800	≥ 800	≥ 4500	≥ 5000	≥ 7000
Lifetime	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours
Contrast Ratio (typ.)	5000:1	5000:1	5000:1	5000:1	5000:1
Viewing Angle [°] hor/ver	140 / 140	140 / 140	140 / 140	140 / 140	140 / 140
Colour Processing	16 bit	16 bit	16 bit	16 bit	16 bit
LED Driving Method	1/16 dynamic scan	1/16 dynamic scan	1/16 dynamic scan	1/16 dynamic scan	1/4 dynamic scan
Refresh Ratio [Hz]	≤ 3840				
Colour Temperature [K]	3000 – 9500 adjustable / 6500 default				
Power Typical [W] m ²	170	170	170	170	170
Power Maximum [W] m ²	580	580	580	580	580
Dimensions (W x H x D) [mm]	320 x 320 x 36	320 x 320 x 36	320 x 320 x 36	320 x 320 x 36	320 x 320 x 36
Weight [kg] Module	1.6	1.6	1.6	1.6	1.6
Serviceability	Front / Rear	Front / Rear	Front / Rear	Front / Rear	Front / Rear
IP Level (Front/Rear)	IP42				
Operating Temperature [°C]	-20 / +45				
Certifications	CE, FCC Class A, RoHS, CCC				
Warranty	2 years (options to extend)				



*The table shows only a selection from our total customisable product range. More pixel pitches are available upon request to the LED Solutions Center



Customised Solutions

There is no challenge too great for the Sharp/NEC LED Solutions Centre. From our solution-oriented approach, even if a task may appear to be impossible due to the installation surroundings, the material, or the requirements, we always find a solution that fits the client's demands. Our expertise may lead to the development of a new product solution, or we may achieve the ideal implementation using existing components from our product range.

Corner Modules

LED walls can easily merge into their surroundings whilst being a visual statement at the same time. Cover entire walls, extend the image surface from the wall to the ceiling, or clad steles in the middle of a room - Sharp/NEC corner cabinets create a seamless canvas around corners. Our corner solutions are also ideal to display 3D illusions.

Curved Screens

Curved LED screens can be either an architectural element or designed to create an immersive effect perceived by the human eye. Large canvasses are more comfortable to view when they are concave

curved providing a consistent viewing distance - the surface appears larger, and the content gains more depth. Convex screens round off corners, form rings and are aesthetically pleasing.

Various Shapes

Our customised LED modules are variable in their size, colour, housing and even shape. The same applies to the frames and the entire environment within which the screen will be adapted into. Such individual solutions are needed for entire wall coverings where standard sizes do not fit or for artful decoration elements that are super small or triangular.

Value Added Services

Enhanced Services

At Sharp/NEC, we are proud to offer an Enhanced Services program, a comprehensive care package designed to ensure the best possible care for your Sharp/NEC LED display with top-tier service.

Our Enhanced Services program provides access to:

- Technical Helpdesk support
- Annual preventative maintenance service
- <48 hour on-site service visits (2/year)

[LEARN MORE](#)  Our Value Added Services

Warranty and Service Offering

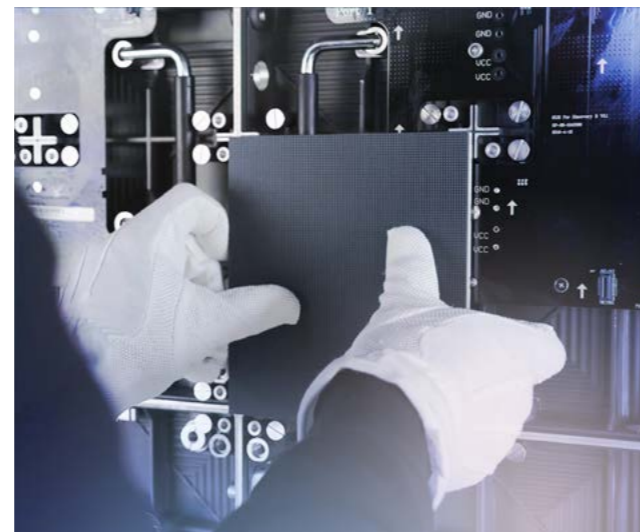
Experience exceptional visual quality and longevity with Sharp/NEC's best-in-class LED solutions. A remarkable life span of up to 100,000 hours means our LED solutions promise a compelling Total Cost of Ownership over 10 years, based on average use.

Committed to quality, we offer a comprehensive range of professional service packages and

warranties designed to accompany our LED products. Our 'at a glance' overview covers our extensive LED service offerings:

- Warranties with options to extend
- Installation Services
- Managed Services

[LEARN MORE](#)  Our Warranty and Service LED offering



Sustainability

A Lasting Vision

Manufactured using high quality components and Japanese engineering standards, Sharp/NEC products and solutions are trusted for long-lasting reliability. This commitment to quality underpins our sustainable management where, through repair and refurbishment programs, we extend the long lifecycle of our products, deferring replacement, and therefore waste, over a longer time frame.

Eco Vision 2050

We aim to achieve net zero CO₂ emissions from our business activities by 2050 with interim reduction targets of 40% by 2030 and 60% by 2035. The recent joint venture between Sharp and NEC strengthens our drive forward with a clear vision for the future as we take practical steps to achieve our ECO Vision 2050.

[LEARN MORE](#)  Our Lasting Vision and the practical steps we are taking to achieve our sustainability goals

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