

Large Format Display - Professional

Sharp MultiSync® P436



Precision performance for critical applications

- Enhanced imaging precision when brand consistency and corporate identity are important, NEC's SpectraView Engine provides full control over colour, gamma, and uniformity for accurate and impactful content.
- Unhindered readability a high-haze panel reduces glare from windows and ambient light, keeping signage content and presentations clear for uninterrupted viewing in any environment
- Security assured 802.2x support over LAN enables high-level security for corporate networks, giving peace of mind for IT teams and enterprise environments.
- Mission-critical performance with 700 cd/m² brightness, long-life components and robust flame-resistant metal chassis, the P6 series is engineered to deliver lasting clarity and durability in challenging environments without the need for bulky housings.
- Trusted integration full compatibility with major AV ecosystems, including Crestron XiO Cloud and NVX, Q-Sys, Cisco Webex, Matrox IPMX, and CMS solutions, ensures seamless setup and scalability.

Options

IoT and Asset Management

NaViSet Administrator 2 Sharp/NEC's software suite that provides monitoring, asset management and control functionality for display devices

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PD Comms Tool Test tool to quickly diagnose communication issues remotely

Test tool to quickly diagnose communication issues remotely.

Firmware Update Tool Utility to assist with updating the firmware of dedicated Sharp/NEC large format and desktop displays

Utility to assist with updating the firmware of dedicated Sharp/NEC large format and desktop displays.

Cables

USB-C 5M 5m USB Type-C cable

5m USB Type-C cable

USB-C 7M 7m USB Type-C cable

7m USB Type-C cable

Sensors

Sharp KTES1 ECO Sensor for dedicated Sharp large format displays

ECO Sensor for dedicated Sharp large format displays.

Video Wall Options

Remote Control Kit - KT-RC3 IR/Remote Control Kit for dedicated Sharp/NEC large format displays

IR/Remote Control Kit for dedicated Sharp/NEC large format displays.

Computing Essential

MPI4 Kit powered by Raspberry Pi Slot-in computing moduie based on the Raspberry Pi Compute Module 4

Slot-in computing moduie based on the Raspberry Pi Compute Module 4

SDM Essential SDM slot-in PC (Intel® Elkhart Lake Atom) optimised for essential signage applications

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SDM MPI5 Kit powered by Raspberry Pi Fanless, silent operation designed for distraction-free environments, built specifically for continuous, dependable 24/7 operation in any orientation

Fanless, silent operation designed for distraction-free environments, built specifically for continuous, dependable 24/7 operation in any orientation.

Interfaces and Adapters

SDM HDBaseT Receiver Slot-in board for video signal transmission up to 150m through a single network cable

Slot-in board for video signal transmission up to 150m through a single network cable

SDM 12G SDI Receiver Slot-in board for transmission of uncompressed and unencrypted video signals in UHD resolution

Slot-in board for transmission of uncompressed and unencrypted video signals in UHD resolution

Computing Midrange

SDM Slot-In PC Midrange (RPL) SDM slot-In PC (Intel® U300E, 5 Cores) for any midrange signage application

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SDM Slot-In PC Midrange (ADL) Intel® SDM slot-In PC for any midrange signage applications

Intel® SDM slot-In PC for any midrange signage applications

SDM BrightSign Built-In Player Power, flexibility and future-ready performance, without compromise

Power, flexibility and future-ready performance, without compromise.

Calilbration and Adjustment

Display Wall Calibrator Automatic adjustment of colour and brightness

Automatic adjustment of colour and brightness.

Value Added Services

De-/Re-install Service for Large Format Displays Optional De-/Re-install Service (1st to 3rd year or 1st to 5th year) for dedicated Sharp Large Format Displays

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Laser Branding Optional Laser Branding Service for dedicated Sharp Display Products

Optional Laser Branding Service for dedicated Sharp Display Products

Support+ Optional additional services (1st to 3rd year) for dedicated Sharp Display Products

Optional additional services (1st to 3rd year) for dedicated Sharp Display Products

Speakers and Soundbars

PN-ZCMS1 All-in-one collaboration videobar incl

All-in-one collaboration videobar incl. speaker, microphone and camera.

SP-RM3a Active high-end speaker for dedicated Sharp/NEC large format displays

Active high-end speaker for dedicated Sharp/NEC large format displays.

Warranty Extensions

2nd Life Warranty Extension for Large Format Displays (Eco Prime) Optional Second-life warranty (3 years) for dedicated Sharp Large Format and Interactive Displays

Optional Second-life warranty (3 years) for dedicated Sharp Large Format and Interactive Displays

2nd Life Warranty Extension for Large Format Displays (Eco Value+) Optional Second-life warranty (1 year) for dedicated Sharp Large Format and Interactive Displays

Optional Second-life warranty (1 year) for dedicated Sharp Large Format and Interactive Displays

2nd Life Warranty Extension for Large Format Displays (Eco Select) Optional Second-life warranty (2 years) for dedicated Sharp Large Format and Interactive Displays

Optional Second-life warranty (2 years) for dedicated Sharp Large Format and Interactive Displays

Warranty Extension for Large Format Displays and Computing Solutions Optional Warranty Extension (4th to 5th year) for dedicated Sharp Large Format Displays and Computing Solutions

Optional Warranty Extension (4th to 5th year) for dedicated Sharp Large Format Displays and Computing Solutions

Mounting Options

Trolley PD04 Tipster Stylish and flexible mounting system for dedicated Sharp/NEC large format displays

Stylish and flexible mounting system for dedicated Sharp/NEC large format displays.

Wall Mount PDW S 32-65 L Universal wall mount for dedicated Sharp/NEC large format displays (32" to 65")

Universal wall mount for dedicated Sharp/NEC large format displays (32" to 65"). Landscape orientation.

Wall Mount PDW S 32-65 P Universal wall mount for dedicated Sharp/NEC large format displays (32" to 65")

Universal wall mount for dedicated Sharp/NEC large format displays (32" to 65"). Portrait orientation.

Computing Enterprise

SDM Slot-In PC Enterprise (RPL) SDM slot-In PC (Intel® COre i5) for demanding meeting room applications

SDM slot-In PC (Intel® COre i5) for demanding meeting room applications

Computing Advanced

SDM Slot-In PC Advanced (RPL) SDM slot-in PC (Intel® Core i5) for any high-end signage application

SDM slot-in PC (Intel® Core i5) for any high-end signage application

Image Control and Connectivity

Hiperwall Innovative software- and IP-based solution to create reliable and flexible video wall solutions that can display data and video images from different sources at unequaled high resolutions

Innovative software- and IP-based solution to create reliable and flexible video wall solutions that can display data and video images from different sources at unequaled high resolutions.

Specifications

General

Series	[sharp-p-series-lfd]
Order Code	PNP436

Display

Active Screen Area Width (mm)	941.2
Active Screen Area Height (mm)	529.4
Aspect Ratio	16:9
Brightness (cd/m ²)	700
Colour Depth	1.073 (10bit)
Colour Gamut	86% of DCI
Contrast Ratio	≥ 8000:1
Haze Level (%)	Pro (25)
Panel Refresh Rate (Hz)	60
Panel Technology	IPS with Direct LED backlights
Pixel Pitch (mm)	0.245
Response Time Grey-to-grey (ms)	8
Screen Size (inch)	42.5
Screen Size (cm)	108
Supported Orientation	Face Down, Portrait, Face Up, Landscape
Viewing Angle	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)

Resolution

Native Resolution	3840 x 2160
Supported Resolutions	1920 x 1200, 1920 x 1080, 720 x 480, 1600 x 1200, 1024 x 768 , 640 x 480, 1366 x 768, 1440 x 900, 1400 x 1050, 1280 x 720, 1920 x 2160, 720 x 400, 4096 x 2160, 1280 x 800, 1680 x 1050, 1280 x 1024, 720 x 576, 1270 x 720, 3840 x 2160, 800 x 600, 1360 x 768

Connectivity

Audio Output 3.5mm	Line Out, Audio Output
DisplayPort In 1	UHD (60 Hz) DP 1.2, Audio Input, Video Input, HDCP (2.2)
DisplayPort Out	Loop Through: DisplayPort IN, USB-C 2, HDCP (2.2), Video Output, Audio Output, UHD (60 Hz) DP 1.2
HDMI In 1	UHD (60 Hz) HDCP (2.2), ARC, Video Input, CEC, Audio Input
HDMI In 2	CEC, UHD (60 Hz) HDCP (2.2), Audio Input, Video Input
HDMI Out	Video Output, Audio Output, UHD (60 Hz) HDCP (2.2), Loop Through: HDMI IN 2, Option, Compute module
Input Detect	Last, Custom, First
LAN 1	100 MBit/s
LAN 2	100 MBit/s
LAN 2 Loop Through	LAN 1, RS-232C, IR
PiP / PbP	2-Split, Scalable picture size
Remote In (3.5mm)	Eco Sensor (IR-Extender, Ambient and Presence)
RS-232C (bps)	9600
USB-A Service	2.5 W, Service
USB-A 1	USB Storage, [45-w], Peripherals, [usb-20-32]
USB-C 1	UHD (60 Hz), DP alt. 1.2, HDCP (2.2), Video Input, USB 2.0 / 3.2, 65 W, Audio Input
USB-C 2	Storage, Peripherals, USB 2.0 / 3.2, 7.5 W

Open Modular Intelligence

Compute Module Slot	[accepts-intel-smart-display-modules-large-and-small-up-to-66], MPI4 and MPI5 Kit (powered by Raspberry Pi)
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Calibration

Calibration Software	Display Wall Calibrator
Calibration With Software	White Point, Gamma, Intensity, RGB, Corner Uniformity, Update Factory Calibration
Factory Calibration	Intensity, White Point, RGB, Gamma, Uniformity

Sensors

Ambient Light Sensor	Integrated, triggered actions programmable
Human Sensor	optional via Eco Sensor (KTES1)
Temperature Sensor	Integrated, 3 sensors, triggered actions programmable

Electrical

Power Consumption typ. (W)	80
Power Supply	internal, 100-240 V AC, 50/60 Hz
Power Savings Mode (W)	< 2.0 (Networked Standby), < 0.5

Mechanical

Bezel Width Bottom (mm)	13.9
Bezel Width Right (mm)	9.9
Bezel Width Left (mm)	9.9
Bezel Width Top (mm)	9.9
Dimensions Width (mm)	965
Dimensions Height (mm)	557.2
Dimensions Depth (mm)	66.5
Ingress Protection	IP5X (front); IP2X (back)
Packaging Dimensions Width (mm)	1070
Packaging Dimensions Height (mm)	675
Packaging Dimensions Depth (mm)	161
Packaging Weight (kg)	18
VESA Mounting Holes	4
VESA Mounting Screw	M6
VESA Mounting FDMI	300 x 300
Weight (kg)	13.5
Material	Metal

Environmental Conditions

Operating Temperature (°C)	+0 to +40
Storage Humidity (%)	10 to 80
Storage Temperature (°C)	-20 to 60

Regulatory

Pixel Failure Class	ISO 9241-307, Class 1
Resistance to Fire	Metal backcover, plastic material certified acc. to UL94-5VB
Safety and Ergonomics	RoHS, REACH, UKCA, EMC Class B, CE

Green Features

Ecological Standards	EnergyStar 8.0
Energy Efficiency Class	G
Energy Consumption (kWh/1000h)	67

3rd Party Certifications

3rd Party Certificate	Certified for Crestron CCV2 and XiO Cloud, Q-Sys Plug-in
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Additional Features

External Control	PJLink, SNMP
Operating Hours	24/7
Remote Management	NaViSet Administrator 2
Security	Disable HW Buttons, Disable IR Functionality, IEEE802.1X (LAN)
Shipping Content	Setup Manual, Display, HDMI Cable, Power Cable, Remote Control, 2 x AAA batteries
Special Characteristics	DICOM Simulation, Clone Settings, Scheduler
Warranty	optional 4. + 5. year warranty extension, 3 years warranty incl. backlight, additional services available

