

SHARP

PN-LM551
PN-LM431
INTELLIGENT TOUCH BOARD



PN-LM Series Multipurpose Interactive Display

ideal for use as touch signage or a meeting tool.

Multi-Purpose Brilliance – The Sharp PN-LM Series Intelligent Touch Board



The Sharp PN-LM Series Intelligent Touch Boards are engineered to deliver exceptional touch performance and professional-grade functionality, making them an ideal solution for small meeting rooms, classrooms, and interactive signage environments.

Powered by a System on Chip (SoC) and running the Android 14 CTS-compliant OS, the PN-LM Series ensures secure, up-to-date, and seamless out-of-the-box collaboration—no external PC required.

Designed to inspire creativity and enhance teamwork, the display features intuitive Pen-on-Paper writing, a built-in whiteboard, annotation overlay mode, and full Windows Ink support. With the integrated EShare app, users can

wirelessly mirror content from personal devices—no apps or dongles needed. A single USB-C connection handles video, audio, data, and power, streamlining BYOD (Bring Your Own Device) setups.

The modern, 4-sided slim bezel design supports flexible installation options including landscape, portrait, and tilted desk (low-angle) modes. Additional features such as hideable sidebars, application lock, and a built-in web browser make the PN-LM Series a smart and budget-friendly choice for interactive signage and collaborative spaces.

Streamlined Home Screen with Pre-Installed Applications



Whiteboard

Integrated whiteboard app designed for seamless note-taking and collaborative brainstorming in meetings.



Wireless Screen Sharing (EShare*)

Seamlessly share and collaborate by casting content to and from the display with multiple connected devices.



Office & PDF Viewer (OfficeSuite**)

View Office and PDF documents directly from a USB drive—no PC required—using the built-in OfficeSuite app.



File Manager

Easily access, manage, and save files from internal storage, USB drives, or OneDrive. View images, listen to music, and play videos—all from one place.



Web Browser

Built-in browser enables quick and easy internet access right from the display, eliminating the need for additional hardware.

*EShare is a trademark of EShare Technology Co., Ltd.
**OfficeSuite is a trademark of MobiSystems



Smart Features. Seamless Experience.

Intuitive UI

easy access to apps and settings from the home screen launcher

Pen-on-Paper

natural writing including Windows Ink

Superior Image

high brightness panel & anti-glare coating

Symmetrical bezel

4-sided uniform bezel supporting portrait & tilted desk installations

Pre-installed apps

whiteboard, wireless screen sharing, Office & PDF viewer and browser

EShare*

mirror from your device to the display and back from the display to multiple devices

Latest Android 14 SoC

offering a secure operating system

App side-loading

install your own apps thanks to Google CTS certification

Save & secure

supports IEEE 802.1X for both Wi-Fi and LAN

USB-C

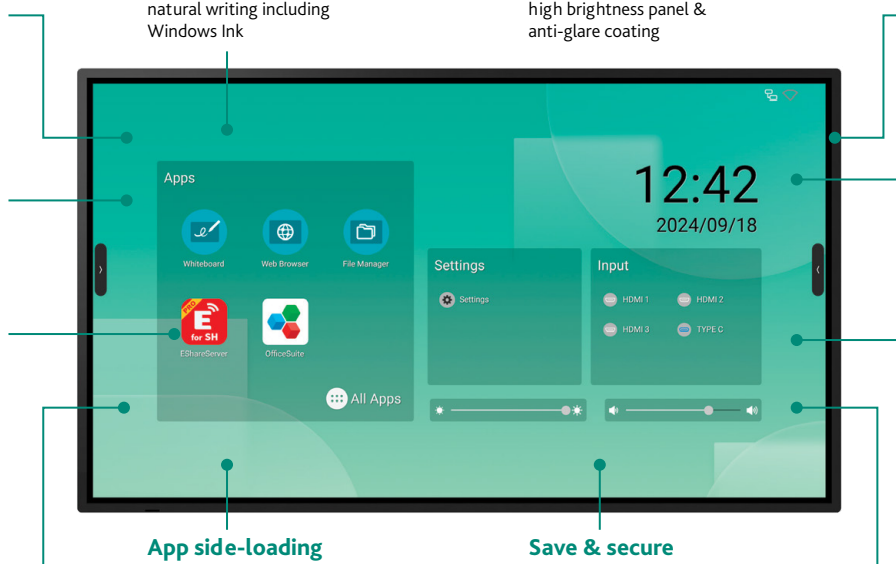
BYOM with up to 65W charging

Intel® OPS slot

for enhanced computing power (55inch only)

HDMI-out

to mirror content to a larger canvas



Key Advantages

Clear in Any Light – Bright panel with anti-glare coating ensures visibility and reduces reflections.

Pen-On-Paper User Experience – Advanced infrared touch and zero-bonded glass deliver precise, responsive writing and drawing with support for up to 20 touch points.

Natural Writing Feel – Responsive, precise touch with support for up to 20 points.

Instant Collaboration – Built-in Android launcher for quick access to essential apps.

Flexible Setup – Easily tailored for meetings, signage, or wayfinding.

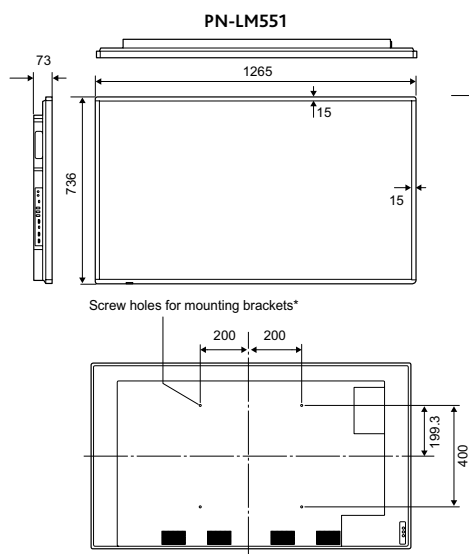
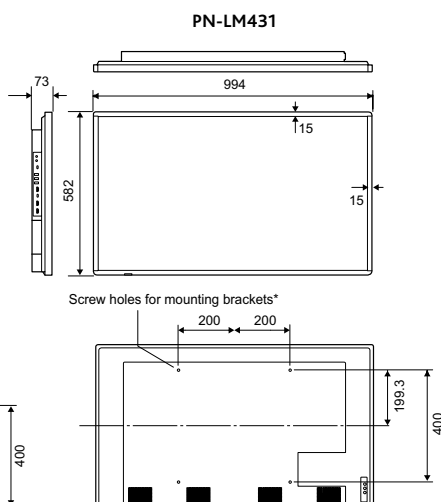
Enterprise-Grade Security – Android 14 SoC delivers strong built-in protection.

Specifications

Model		PN-LM551	PN-LM431
Installation		Landscape/Portrait/Tilt (Backward 0-45°)	
LCD panel	LCD component	55" Class (138.78 cm) diagonal TFT LCD	43" Class (107.99 cm) diagonal TFT LCD
	Max. resolution (pixels)	3840 x 2160	
	Max. colors	Approx. 1.07 billion colors	
	Brightness (typical)	500 cd/m2 ^{*1}	
	Pixel pitch	0.315 mm (H) x 0.315 mm (V)	0.245 mm (H) x 0.245 mm (V)
	Contrast ratio (typical)	5000 : 1	4000 : 1
	Screen active area inch	47-5/8 (W) x 26-13/16 (H) (1209.6 x 680.4mm)	37-1/16 (W) x 20-13/16 (H) (941.184 x 529.416mm)
	Viewing angle	178° right/left/up/down (contrast ratio ≥ 10)	
	Response speed (standard value)	6.5ms (Gray to Gray, Ave.)	
Input terminals	Plug and play	VESA DDC2B	
	Video / Audio	HDMI x 3 / USB Type-C x 1	
	Serial (RS-232C)	D-sub 9 pin x 1	
Output terminals	For control kit	3.5 mm mini stereo jack x 1	
	Video / Audio	HDMI x 1 ^{*5}	
Audio		3.5 mm mini stereo jack x 1	
USB port		USB 3.0 Type-A x 3 / USB 3.0 Type-C x 1 / USB 2.0 Type-A x 1	
LAN terminal		10 BASE-T/100 BASE-TX/1000 BASE-T	
System	OS	Android 14	
	CPU	Arm Cortex-A73 processor x 4, A53 processor x 4(Octo-Core)	
	Memory	4GB	
	Storage	32GB	
Wireless LAN		IEEE802.11a/b/g/n/ac/ax compliant Encryption mode: WPA/WPA2/WPA3 enterprise, WPS2.0, WAPI	
Bluetooth		5.3 compliant Supported protocols: A2DP, AVRCP, GATT, HID	
Expansion slot		OPS Slot available only for 55"	-
Speaker output		10 W + 10 W	
Touch Panel	Detection method	IR Touch with Zero Bonding	
	Computer connector	USB 3.0 Type-B x 1 / USB Type-C x 1	
Power requirement		AC 100 - 240 V, 50/60 Hz	AC 100 - 240 V, 50/60 Hz
Operating temperature ^{*2} ^{*3}		5°C to 35°C	
Operating humidity ^{*3}		20% to 80% (no condensation)	
Storage temperature		-20°C to 60°C	
Storage humidity		10% to 80% (no condensation)	
Power consumption ^{*4} (Max)		145W	110W
Dimensions inch (excluding protrusions)		1265 (W) x 73 (D) x 736 (H) mm	994 (W) x 73 (D) x 582 (H) mm
Weight		33 kg	21kg

^{*1} Brightness will depend on input mode and other picture settings. Brightness level will decrease over time. Due to the nature of the equipment, it is not possible to precisely maintain a constant level of brightness. This is the brightness of the LCD panel. Brightness of product: 450 cd/m2 ^{*2} Temperature condition may change when using the monitor together with the optional equipments recommended by SHARP. In such cases, please check the temperature condition specified by the optional equipments. ^{*3} In addition, check the requirements of the computer and other devices to be connected, and make sure that all requirements are satisfied. ^{*4} Factory setting. (When no optional part is attached.) ^{*5} If the input video is encrypted with copyright protection, the video cannot be output.

Dimension (mm)



Input/Output Panels

