

\Orchestrating a brighter world

**NEC**

47", 55" and 75" LED-backlit, high-brightness LCD displays  
ideal for high ambient light installations

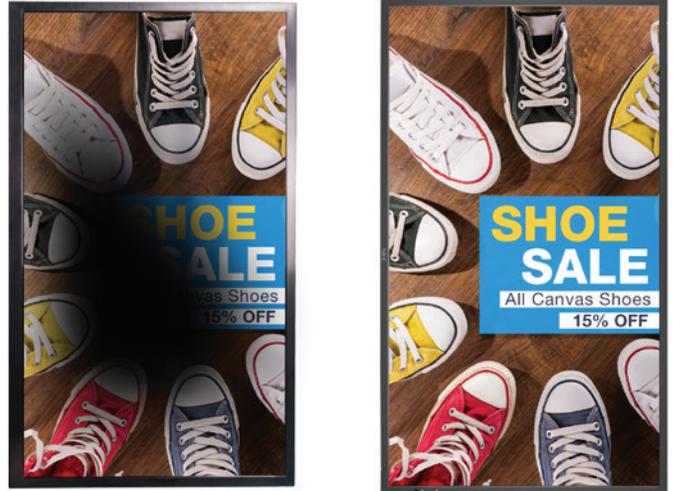
## NEC LCD High Brightness Displays



# High brightness panels, extended runtimes and superior engineering make these displays ideal for high ambient light installations such as quick serve restaurant menuboard or front window facing signage

## High Brightness, High Temperature Panel

The X754HB, X554HB and X474HB are designed with a brightness that can be seen in applications where the highest amount of ambient light is present. This includes areas where the sun will be a factor and could possibly tarnish the image on the display including indoor retail shop windows or outdoor types of applications when coupled with outdoor enclosures. While traditional televisions or even mainstream commercial displays range from 200 to 700 cd/m<sup>2</sup> of brightness, the NEC X-HB lineup ranges from 2000 to 2700 cd/m<sup>2</sup> which is more than enough for crystal clear visibility during all times of day. On top of this, these panels have a higher resistance to the "blackening effect" often produced by direct sunlight on a liquid crystal panel. This is due to a higher temperature transition necessary to make the liquid crystals change from nematic to isotropic.



The NEC X474HB and X754HB contain a high TNi panel to reduce the blackening affect when in direct sunlight.

## Quarter Lambda Polarizer Film

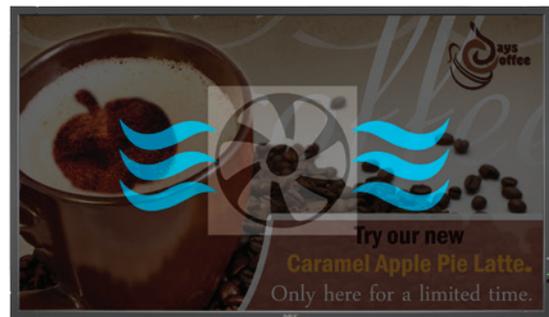
Conventional displays have panels that, when turned into portrait orientation, will have their light blocked by polarizing filters - such as certain sunglasses. The NEC X-HB series contains a special quarter lambda polarizer film that allows light to exit the panel in a way that the content will be clearly seen on the display regardless of orientation or polarized sunglasses.



Even when a customer is wearing polarized sunglasses, the X-HB series will maintain perfect visibility

## Advanced Heat Management

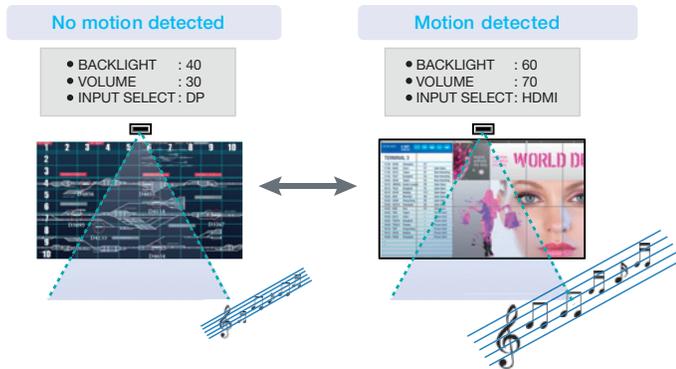
Monitoring and managing the temperature of each display is crucial to secure reliability and longevity. An industrial-strength, premium-grade panel with additional thermal protection, internal temperature sensors with self-diagnostics, and fan-based technology allows for 24/7 operation, and protects your display investment.



Without heat management, the displays could retain harmful heat within the chassis and behind the panel. This damaging heat will lower the picture quality and life expectancy of the product. However, NEC's advanced heat management ensures active heat dissipation through a fan based technology. Integrated cooling fans automatically turn on and stay on when high internal temperatures are detected. These will stay on until the heat is properly dissipated and the display remains under proper temperature thresholds.

## Human Sensor and Ambient Light Sensor

This new optional human (motion) sensor accessory (KT-RC2) helps to deliver creative digital signage to end users by allowing for dynamic control of brightness, audio and source inputs while saving operating costs. Auto dimming adjusts the backlight of the LCD automatically depending on the amount of ambient light.



## Intelligent Wireless Data Function

The built-in near field communication (NFC) chip allows data to be read and written via a mobile phone or tablet PC. Users can significantly reduce installation costs as displays can be easily configured and serviced using the NEC NFC Android app. This is extremely useful for larger rollouts as it can be utilized even when the display is powered off.



## NaViSet Administrator 2

This software is an all-in-one remote support solution that runs from a central location and provides monitoring, asset management and control functionality of the majority of NEC display devices and Windows computers. It is ideal for multi-device installations over larger infrastructures.



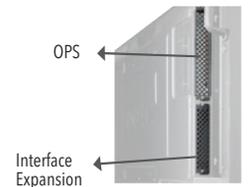
## Dedicated Color Calibration Software

As the brightness and color temperature of the LCD change with time, colors may not match across multiple screens. The NEC Display Wall Calibrator software ensures color uniformity and fidelity across multiple screens, creating a perfectly matched image in menuboard or tiled environments.

## NEC Display Wall Calibrator

## Expansion slots

The NEC HB displays support Intel's Open Pluggable Specification (OPS), and interface expansion slots to provide the flexibility customers need.



## Proof of Play

This function provides accurate proof that displays are working as established when checking from an external location. Information regarding video source, time on, audio source and more can be pulled through the display when coupled with NaViSet Administrator 2.

## Other Useful Features and Functions

- Landscape/portrait capable
- Scheduler with real-time clock
- Intelligent power management system
- Power on delay
- Screen saver function
- Aspect ratio control
- Memo function
- Carbon footprint meter
- PIP, PBP and Side by Side options
- Built in speakers
- Point zoom
- Control lock function

- 6-axis color adjustments and sRGB standard
- Advanced video settings (Noise reduction, adaptive contrast)
- Color temperature adjustment
- Programmable gamma setting (3 settings)
- DICOM simulation
- Plug and play (DDC/CI, DDC2B)
- HDCP (High-bandwidth Digital Content Protection) through certain inputs
- Ethernet and RS-232C control and communication

- CRESTRON ROOMVIEW™
- AMX Discovery HTTP server
- PJLink
- Self-diagnosis
- Status log function
- Firmware update over LAN
- Metal rear cabinet with VESA Standard Mounting Interface
- Carrying Handles for ease of installation

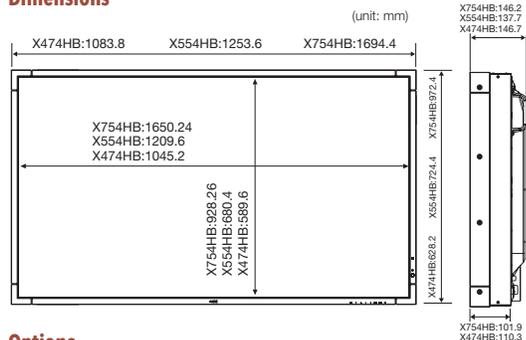
MODEL	X474HB	X554HB	X754HB
<b>LCD MODULE</b>			
Panel Technology	S-IPS	SPVA	SPVA
Viewable Image Size	47"	55"	75"
Native Resolution	1920 x 1080		
Brightness (Typical/Max)	1600 cd/m <sup>2</sup> / 2000 cd/m <sup>2</sup>	2000 cd/m <sup>2</sup> / 2700 cd/m <sup>2</sup>	2000 cd/m <sup>2</sup> / 2500 cd/m <sup>2</sup>
Contrast Ratio (Typical)	1300:1	5000:1	3000:1
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10		
Aspect Ratio	16:9		
Displayable Colors	More than 1.07 billion (10-bit)		More than 16.7 million (8-bit)
Orientation	Landscape/Portrait		
<b>CONNECTIVITY</b>			
PC/Mac Signal Compatibility	Yes		
Input Terminals	DisplayPort, HDMI, DVI-D		
Digital	DisplayPort, HDMI, DVI-D		
Analog	VGA 15-pin D-sub		
Audio	Audio Mini-Jack, DisplayPort Audio, HDMI Audio		
External Control	RS-232C, LAN, DDC/CI		
Output Terminals	DisplayPort (DisplayPort, HDMI, DVI-D or Option Signals out of this port)		
Digital	DisplayPort (DisplayPort, HDMI, DVI-D or Option Signals out of this port)		
Analog	n/a		
Audio	Audio Mini-Jack, External Speaker Jack (2), HDMI Audio (through DisplayPort Out), DisplayPort Audio		
External Control	LAN		
<b>POWER CONSUMPTION</b>			
On (Typical)	190W	310W	540W
Power Management	<2W	<2.5W	<2.5W
Current Rating	4.2A @ 100 - 120V, 1.7A @ 220 - 240V	6.3A @ 100-120V; 2.4A @ 220-240V	9.7A @ 100 - 120V, 3.4A @ 220 - 240V
<b>PHYSICAL SPECIFICATIONS</b>			
Bezel Width (L/R, T/B)	19.3mm/19.3mm, 19.3mm/19.3mm		19.5mm/19.5mm, 19.5mm/19.5mm
Net Dimensions (without stand; WxHxD)	42.7 x 24.7 x 5.8 in.; 1083.8 x 628.2 x 146.7mm	49.4 x 28.5 x 5.4 in.; 1253.6 x 724.4 x 137.7mm	66.7 x 38.3 x 5.8 in.; 1694.4 x 972.4 x 146.2mm
Net Weight (without stand)	58.4lbs. / 26.5kg	71.9lbs / 32.6kg	127.7lbs / 57.9kg
VESA Hole Configuration	300 x 300mm (M6 x 4)	400mm x 400mm (M6 x 4)	400mm x 400mm (M8 x 4)
<b>ENVIRONMENTAL CONDITIONS</b>			
Operating Temperature	41-104°F / 5-40°C		
Operating Humidity	20 - 80%		
Operating Altitude	13,780 ft. / 4200m		
<b>LIMITED WARRANTY</b>			
	3 year parts and labor including backlight		
<b>ADDITIONAL FEATURES</b>			
	Localized Dimming (X474HB), Direct LED Backlighting, Quarter Lambda Polarizer Film, High TNi Panel, Integrated Temperature Sensors and Dual Thermodynamic Cooling Fans, Ethernet Control and Communication, LAN Daisy Chain, RS-232 Control and Communication, Landscape/Portrait Capable, Full 24/7 Scheduler Function, Optional Human Sensor, NFC Capable with Intelligent Wireless Data App, Interface Expansion Slot, DisplayPort 1.2 Daisy Chain for UHD Loophrough Capabilities, Metal Rear Chassis, Carrying Handles, Programmable Gamma Correction, OPS Expansion Slot		
<b>SHIPS WITH</b>			
	Power Cable, 1.8m DVI Cable, Setup Manual, CD-ROM, Thumbscrew for Optional Stand, Wireless Remote Control, Batteries		
<b>Optional Accessories</b>			
	Stand (ST-4620 for X474HB, ST-5220 for X554HB, ST-801 for X754HB), Front-Firing 15W x 2 Speakers (SP-TF1), Side-Firing 15W x 2 Speakers (SP-RM1), IR Remote Control/Human Sensor Kit (KT-RC2), All OPS Option Cards, All Interface Expansion Boards (SB3-AB1, SB3-AB2, SB3-DB1), Display Wall Calibrator Kit (KT-LFD-CC)		

**Input Panel**

- |                              |                        |
|------------------------------|------------------------|
| 1. Vacation Switch           | 7. RS-232C In          |
| 2. External Speaker Terminal | 8. Remote In           |
| 3. Audio Mini Jack Out       | 9. VGA D-Sub In        |
| 4. USB Service Port          | 10. DisplayPort In/Out |
| 5. LAN Ports                 | 11. HDMI In            |
| 6. Audio Mini Jack In        | 12. DVI-D In           |



**Dimensions**



**Options**

**OPS PC's**

- OPS-DRD
- OPS-PCAEQ-PS/PH
- OPS-PCIB-PS



**SDI**

- HD-SDI **SB-01HC**
- 3G-SDI **SB-04HC**



**HDBaseT SB-07BC**



**Interface Extension Board**

- Digital Video **SB3-DB1**
- Analog Video **SB3-AB1**
- Analog Video **SB3-AB2**



**Sensor Kit**

Human (Motion) / Ambient Light / IR Remote

**KT-RC2**



**Stand**

- X474HB **ST-4620**
- X554HB **ST-5220**
- X754HB **ST-801**



**Speaker**

- SP-RM1
- SP-TF1



**Wall Mount**

- X474HB **WMK-3257**
- X554HB **WMK-3257**
- X754HB **WMK-6598**



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