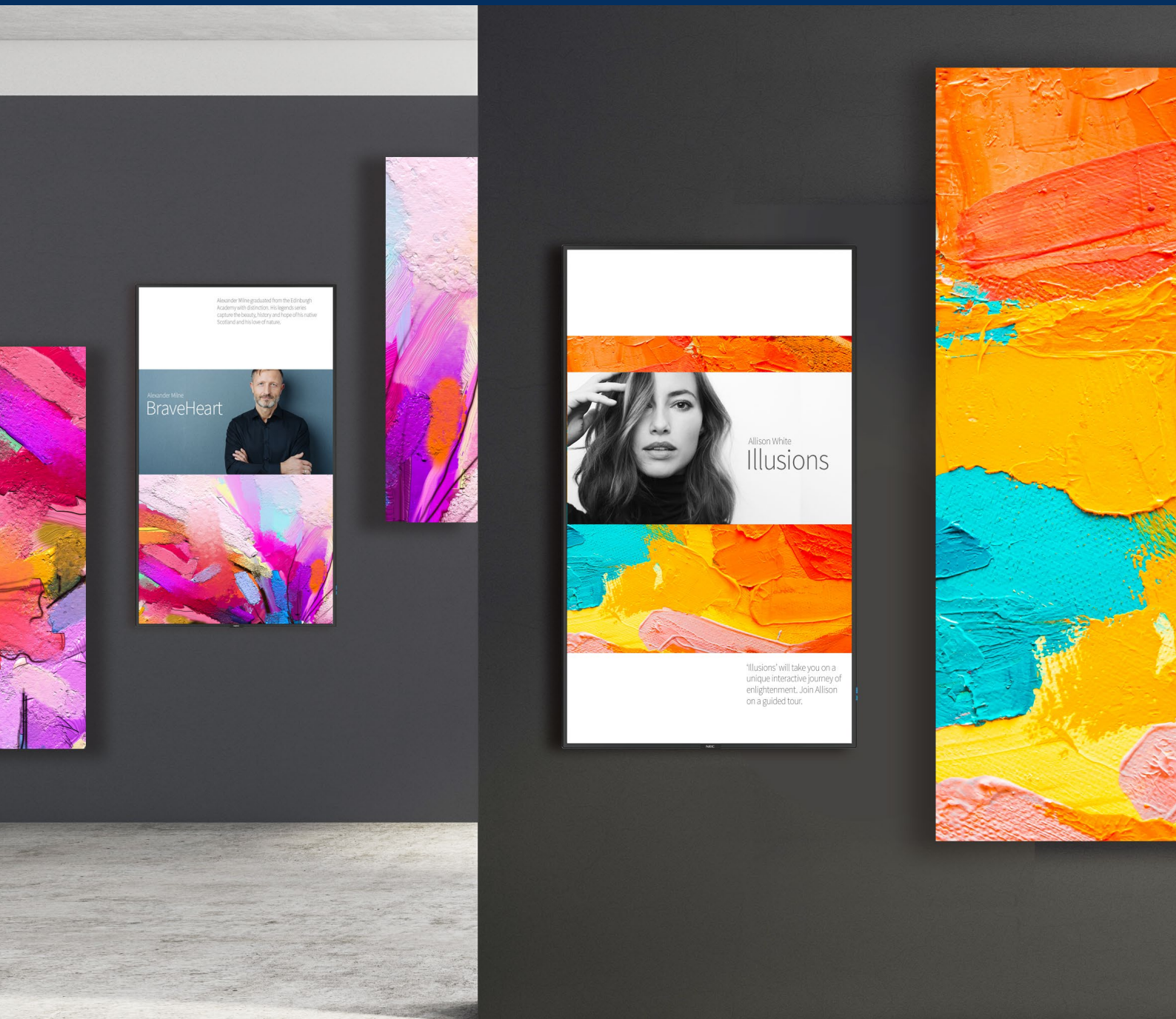# NEC MultiSync® MA Series
Large Format Displays

24 7
CERTIFIED
OPERATION

43", 49", and 55" Advanced Professional Displays, Ideal for High-End Applications

Feature-rich commercial design with full metal chassis allows for seamless integration into any digital signage environment while maintaining the commercial ruggedness necessary for corporate, leisure signage and command and control.

Share your message, your way!

Masterfully Crafted for Impactful Messaging

Create pixel perfect imagery with the high-end panel quality of the new fully commercial NEC MA Series large format displays. By implementing premium features and focusing on creating impressionable digital signage experiences, the MA Series gives customers and elite display option. With it's one-of-a-kind wide color gamut commercial panel coupled with the proprietary SpectraView Engine capabilities, these displays offer more color capabilities than ever before. On top of that, these products allow customers the modular capabilities to customize their product based on their needs and applications. The new series contain a full metal mechanical chassis, allowing for a more robust design necessary for commercial applications while maintaining the attractive aesthetics that allow the focus of onlookers to be on what matters - the message. Robust connectivity options allow customers to have up-to-date connectivity options while also allowing for enhanced daisy chain capabilities when tying displays together for video or control signal distribution. The NEC MA Series boasts 500 cd/m² brightness which is ideal for a majority of high end digital signage applications in corporate, leisure, collaboration, retail, museum and command and control environments when high-end feature rich displays are necessary to convey important messaging.
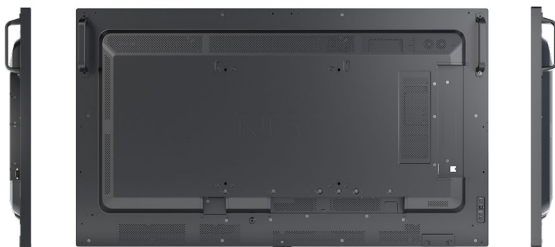
High-End UHD Picture Quality

4K UHD

By supporting native 3840 x 2160 resolution with HDR compatibility across the entire MA series lineup, imagery and messaging are more vivid and lifelike than ever before!

Full Commercial Build

Full metal chassis allows for the ruggedness needed for true commercial environments while integrated carrying handles reduces the likelihood of damage while installation. On top of that, integrated temperature sensors and active cooling fans insure that the display remains cool and at a constant brightness output in order to maintain professional level image output.
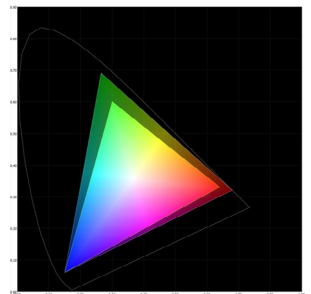

Cisco Compatible Partner

Full compatibility with Cisco WebEx Kit products. The Cisco WebEx Kit is a professional video conferencing tool that has everything integrated into a single soundbar including microphone(s), camera(s), the speaker and the Video Conferencing Codec. This, combined with the large format NEC displays provide the ultimate conferencing solution.
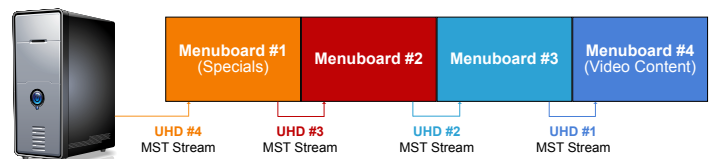

Wide Color Gamut Panel

The new MA Series products contain fully commercial Wide Color Gamut panels allowing for a broader range of viewable colors when compared to a traditional commercial grade panel. This, coupled with NEC's proprietary SpectraView Engine technology allows customers to have complete color control over their panel for industry-leading customization and control.

SpectraView™ engine

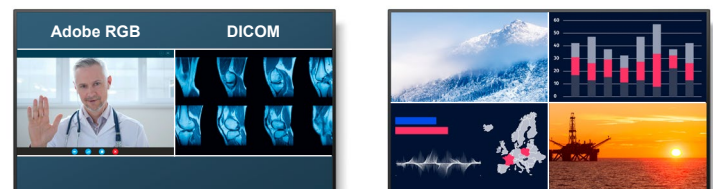## Enhanced Daisy Chain Capabilities

All MA Series displays contain the ability to directly daisy chain both the HDMI and DisplayPort input signals. The DisplayPort daisy chain is enhanced due to DisplayPort 1.4 connectivity and HBR3 capabilities. This allows for Multi-Stream Transport capabilities that can drive up to 4 independent displays from a single DisplayPort source by multiplexing several video streams into a single stream and sending it to the display that then acts as a branch device to demultiplex the signals into the original streams. This allows for up to 4 independent content pieces to be driven off of a single source – ideal for menuboard and retail applications*

| Menuboard #1 (Specials) | Menuboard #2 | Menuboard #3 | Menuboard #4 (Video Content) |
| UHD #4 MST Stream | UHD #3 MST Stream | UHD #2 MST Stream | UHD #1 MST Stream |

*MST capabilities depends on the video card driving the system.
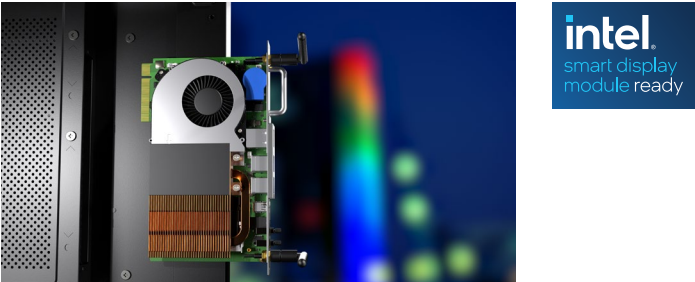
Multi Picture Mode

NEC MultiSync MA Series displays can support multiple simultaneous images at the same time through Multi Picture Mode. This, in conjunction with SpectraView Engine Technology, can allow for each separate image to even have different defined color settings if necessary. This means that each part of the display can be optimized for the type of content that's being displayed.
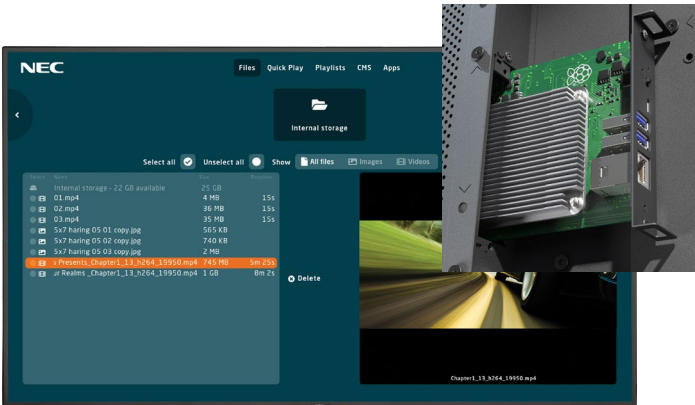

Adobe RGB   DICOM

Advanced Viewing with Professional Features

Professional Modularity

The MA Series gives customers everything they need for their digital signage application while also offering the ability to enhance their screen through multiple integrated professional technologies. The MA Series accepts Intel® Smart Display Modules Large or Small through clever mechanical and electrical design allowing for sleek all-in-one intelligence and interoperability in a small form factor setting. This allows for the flexible implementation of Intel® processor-based products directly into the NEC MA Series products without having to deal with the hassles of mounting external devices and running video or audio cabling. Audio, video, control and power signals are all internal from the Intel® SDM through to the display, simplifying installations and allowing for clean and easy set-up.

intel®
smart display
module ready

The MA Series also expands on the success of earlier display line-ups by allowing for the optional implementation of a Raspberry Pi Compute Module 4 directly into each display. The Raspberry Pi Compute Module 4 greatly outperforms previous versions by offering gigabyte network speeds, faster CPU processing and true 4K support. The new version also comes imaged with the new and user-friendly NEC MediaPlayer. Through an intuitive user-interface, the NEC MediaPlayer allows you to load, schedule and edit playlists, access internal storage, access online media through an internal browser or even image the RPi to qualified CMS partner platforms – all through the supplied NEC remote control or remotely through a web-interface!
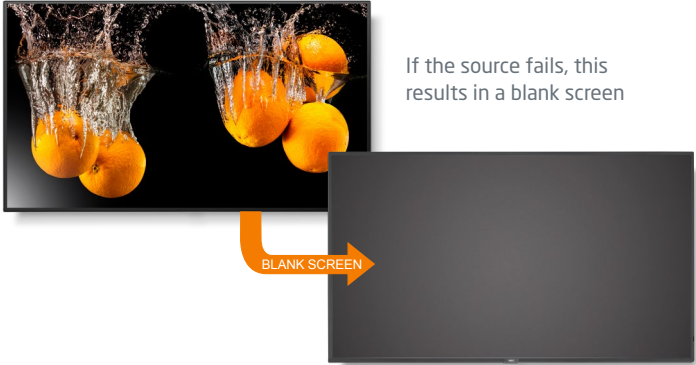

NaViSet Administrator 2

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 NEC display devices and Windows computers. It is ideal for multi-device installations over arrays as it allows for task management, reporting and on-demand control options. Control your entire NEC ecosystem through this free optional asset management software!

NaViSet
Administrator 2

Input Detect Functionality

This feature allows for the customer to prioritize up to 3 inputs so that if a primary source goes down, the display will automatically switch to whatever the customer has prioritized next. The first detect option also allows for the display to automatically turn onto any source that plugs into it, allowing the display to wake on any synced signal.
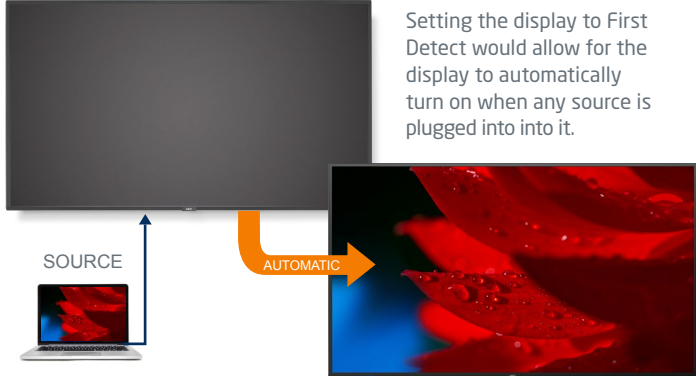
Typical Display

If the source fails, this results in a blank screen

MA Series

If the source fails, the display auto-switches to the next prioritized source, meaning zero down time on the display

First Detect

Setting the display to First Detect would allow for the display to automatically turn on when any source is plugged into into it.
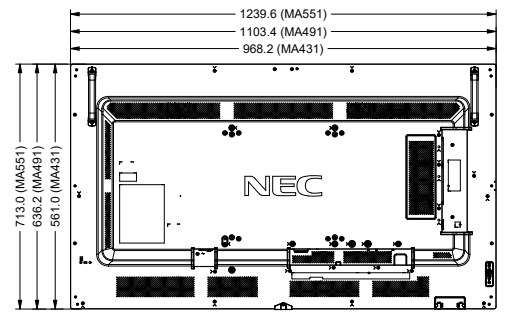
SOURCE

MA431
43" | UHD | 500 cd/m² | WCG
RPi 4 Slot | Intel® SDM Slot
NEC MediaPlayer
Pro Haze Reduction

MA491
49" | UHD | 500 cd/m² | WCG
RPi 4 Slot | Intel® SDM Slot
NEC MediaPlayer
Pro Haze Reduction

MA551
55" | UHD | 500 cd/m² | WCG
RPi 4 Slot | Intel® SDM Slot
NEC MediaPlayer
Pro Haze Reduction

SPECIFICATIONS		MA431	MA491	MA551
LCD MODULE	Panel Technology	IPS		
	Viewable Image Size	43"	49"	55"
	Native Resolution	3840 x 2160		
	Brightness (Typical/Minimum)	500 cd/m²		
	Contrast Ratio¹	≥8000:1		
	Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10		
	Aspect Ratio	16:9		
	Color Gamut	86% DCI		
	Displayable Colors	Over 1.07 Billion (10 bit)		
	Orientation	Landscape and Portrait (CCW Rotation)		
	Panel Haze (%)	Pro (28)		
CONNECTIVITY	Input Terminals — Digital	HDMI 2.0 x2, DP 1.4 x2		
	Input Terminals — External Control	LAN (100Mbit), 3.5mm Mini Jack IR Remote, RS-232C		
	Input Terminals — Data	USB Ax2 (Hub/0.5A-Downstream Port, Service/2A), USB B (Upstream Port)		
	Output Terminals — Digital	HDMI x1, DisplayPort x1		
	Output Terminals — Audio	3.5mm Mini Jack, External Speaker Jack (15W x 2)		
	Output Terminals — External Control	LAN (100Mbit)		
POWER CONSUMPTION	On (Typ/Max Brightness/All Max)	70W/85W/235W	85W/100W/245W	90W/110W/255W
	Network Standby	2W		
	Normal Standby	<0.5W		
	Current Rating	2.6A - 1.1A @ 100V - 240V	2.7 - 1.1A @ 100V - 240V	2.8 - 1.2A @ 100V - 240V
	Speaker Rating	Optional through SP-RM3		
PHYSICAL SPECIFICATIONS	Bezel Width (L/R/T/B)	11.0mm/11.0mm/ 11.0mm/15.6mm	12.5mm/12.5mm/ 12.0mm/15.6mm	
	Net Dimensions (Without stand; W x H x D)	968.2 x 561.0 x 67.1mm	1103.4 x 636.2 x 61.1mm	1239.6 x 713.0 x 61.1mm
	Net Weight (Without Stand)	18.5kg	22.9kg	27.6kg
	VESA Hole Configuration	4x M6 x 12mm (300 x 300)		
SENSORS	Ambient Light Sensor	Integrated		
	Human Sensor	Optional (KT-RC3)		
	Temperature Sensor	Integrated and Programmable; linked to cooling fans		
ENVIRONMENTAL CONDITIONS	Operating Temperature	0 to 40°C		
	Operating Humidity	20-80%		
	Operating Altitude	3000m		
ADDITIONAL FEATURES		**Pixel Failure Class** ISO 9241-307, Class 1 **Shipping Content** Display; HDMI Cable; Power Cable; Remote Control; User Manual **Operating Hours** 24/7 **External Control** AMX NetLinx Support; ASCII Control Commands; HDMI CEC; HTTP Browser; PJLink; Scheduled Timer; SNMP **Remote Management** Automated Email Alerts; NEC NaViSet Administrator 2 **Security** Disable HW Buttons; Disable IR Functionality; Emergency Notification		
SHIPS WITH		3m AC Power Cord, 2.0m HDMI Cable, IR Remote Control, Batteries (AAA batteries)		
Optional Speakers		SP-RM3		
Optional Stand		ST-43M or ST-401		
Other Accessories		Intel® Smart Display Module computing devices, Raspberry Pi Compute Module 4 with NEC MediaPlayer pre-installed, Human Sensor (KT-RC3)		

¹ Out of the box conditions, local dimming ON

Input Panels

1. External Speaker Terminal
2. Audio Mini Jack Out
3. LAN1 (Control)
4. LAN2 (Control)
5. IR In
6. DisplayPort IN1
7. DisplayPort IN2
8. DisplayPort Out
9. HDMI IN1 (ARC)
10. HDMI IN2
11. HDMI Out
12. USB-A (Hub/0.5A – Downstream Port)
13. USB-B (Control/Software – Upstream Port)
14. USB-A (Service/2A)
15. RS232C IN

Tabletop Stands
ST-43M (MA431/MA491/MA551)
ST-401 (MA431/MA491/MA551)

Wall Mount
PDW T XL-2 (55"-65") and
PD02W T M L (43"-49")

A. Bottom Panel

B. Side Panel