

NEC MultiSync® ME431
LCD 43" Message Essential Large Format Display

Datasheet



Your pathway to signage digitisation

Offering a professional feature set and NEC's renowned high reliability, yet at a very attractive price point, the NEC ME series presents the perfect opportunity to digitise your signage. Only commercial-grade displays are capable of delivering reliable, long-life performance and the ME Series presents lower budget business operators the upgrade path to professional digital signage without requiring specialist expertise.

Primed with an integrated USB MediaPlayer, the ME series offers out-of-the-box playback which can be easily upgraded thanks to NEC's modular approach. Enjoy all the flexibility you need to create, schedule and broadcast expert signage content, meaning your messaging is always fresh and up to date. Capable of landscape or portrait orientation and up to 18/7 hours continuous operation, local retailers, restaurants and small business enterprises can deliver dynamic advertising and infotainment to their customers whilst benefiting from the efficiencies gleaned through digitisation.

Benefits

Modern and slim design - robust yet elegant allowing for an unobtrusive integration into any application and environment.

Secure remote management - control your devices remotely and securely using NEC NaviSet Administrator 2; proactively manage maintenance requirements saving time and resources

Ease of use and operation - smart installation, operation and maintenance functionality ensures accurate performance over the entire lifetime of the display saving time, effort and resources.

Future Ready Connectivity - featuring multiple industry standard digital and analogue signal inputs for flexible integration into AV infrastructures.

Effortless content playback - the integrated USB media player supports various image video file formats for effortless and standalone content playback.

Product Information

Product Name	NEC MultiSync® ME431
Product Group	LCD 43" Message Essential Large Format Display
Order Code	60005048

Display

Panel Technology	IPS with Direct LED backlights
Screen Size [inch/cm]	43 / 108
Aspect Ratio	16:9
Brightness [cd/m ²]	400
Contrast Ratio	≥ 8000:1 ¹
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Colour Depth [bn]	1.073 (8bit + FRC)
Response Time (typ.) [ms]	8
Panel Refresh Rate [Hz]	60
Haze Level [%]	Standard (1)
Supported Orientation	Landscape; Portrait

Resolution

Native Resolution	3840 x 2160			
Supported Resolutions	1024 x 768; 1280 x 1024; 1280 x 720; 1360 x 768;	1366 x 768; 1400 x 1050; 1440 x 900; 1600 x 1200;	1650 x 1050; 1920 x 1080; 1920 x 1200; 1920 x 2160;	2560 x 1440; 2560 x 1600; 3840 x 2160; 4096 x 2160

Synchronisation Rate

Horizontal Frequency [kHz]	26 - 135
Vertical Frequency [Hz]	23 - 86

Connectivity

Input Video Digital	1 x DisplayPort (with HDCP); 2 x HDMI (with HDCP)
Input Audio Digital	1 x DisplayPort; 2 x HDMI
Input Control	LAN 100Mbit; remote control wire (3,5mm jack); RS232
Input Data	1 x USB 2.0 (MediaPlayer)
Output Audio Analogue	1 x 3,5 mm jack
Input Detect	Custom; First; Last

Open Modular Intelligence

Intel® SDM	accepts Intel® Smart Display Modules Large and Small up to 45 W; compatible with Intel Celeron CPUs or CPUs with lower power consumption
Compute Module Slot	RPI Compute Module 4

Sensors

Temperature Sensor	Integrated, 3 sensors, triggered actions programmable
--------------------	---

Electrical

Power Consumption [W]	80 shipping
Power Savings Mode [W]	< 0.5; < 2 (Networked Standby)
Power Management	VESA DPMS

Power Supply	100-240 V AC; 50/60 Hz; internal
--------------	----------------------------------

Environmental Conditions

Operating Temperature [°C]	+0 to +40
Operating Humidity [%]	20 to 80
Storage Humidity [%]	10 to 90
Storage Temperature [°C]	-20 to 60

Mechanical

Dimensions (W x H x D) [mm]	973 x 561.2 x 62.6
Weight [kg]	13.9
Bezel Width [mm]	13.9
VESA Mounting [mm]	200 x 200 (FDMI); 4 holes; M6
Ingress Protection	IP5x (front); IP2x (back)
Packaging Dimensions (W x H x D) [mm]	1,120 x 700 x 203
Packaging Weight [kg]	19.6
Colour Bezel	Pantone 426M (black)
Material	Metal

MediaPlayer

Supported File Storage / File System	USB 2.0 / FAT16, FAT32
Supported Image Formats	JPG (baseline, progressive, RGB, CMYK); max. resolution 15360 x 8640
Supported Video Formats	MPG (MPEG1/2/4, max res 1080p@30Hz); MP4 (MPEG2/4, H.263, H.264, HEVC/H.265, max res 3840x2160@60Hz); TS (MPEG2, H.264, HEVC/H.265, max res 3840x2160@60Hz); audio: LPCM, MP3, AAC; WMV (video H.264, Windows Media Video 9, max res 1080p@30Hz, audio WMA 9, WMA 10 Pro)
Supported Audio Formats	MP3 (MP3); max. bit-rate 320 kBit/s

Available Options

Accessories	Feet (ST-43M); MPi4 NEC MediaPlayer Kit; Presence Sensor (KT-RC3); Soundbar (active: SP-ASCM-IQ2 / SP-ASCM-2); Speaker (SP-RM3a); Trolley (PD04-Tipster Trolley); Wall mount (PDW S 32-65 L, PDW S 32-65 P)
-------------	---

Green Features

Energy Efficiency	Energy consumption: 77 kWh/1000 h; Energy efficiency class: G; LED backlight
Ecological Standards	EnergyStar 8.0

Additional Features

Special Characteristics	DICOM Simulation; HDMI ARC; Powered USB Port (10 W); Removable Logo
Safety and Ergonomics	BSMI; CE; EAC; EMC Class B; Energy Star 8; FCC Class B; KC/KCC; PSB; RCM; RoHS; VCCI
Pixel Failure Class	ISO 9241-307, Class 1
Audio	Integrated Speakers (10 W + 10 W)
Shipping Content	2x AAA batteries; Display; HDMI Cable; Power Cable; Remote Control; Setup Manual
Warranty	3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension ²
Operating Hours	18/7
External Control	AMX NetLinx Support; ASCII Control Commands; Crestron Connected; 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

Resistance to Fire Metal backcover, plastic material certified acc. to UL94-5VB

¹ out of the box conditions, local dimming ON

² please refer to terms and conditions of warranty extensions



CE



RCM



FCC Class B



RoHS



VCCI

This document is © 2024 Sharp NEC Display Solutions Europe GmbH.

All rights reserved in favour of their respective owners. All hardware and software names are brand names and/or registered trademarks of the respective manufacturers. All specifications are subject to change without notice. Errors and omissions are excepted. 14.02.2024