LCD 43" Message Essential Large Format Display

NEC MultiSync® ME431





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 digitisatition.

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.

Specifications

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/m²]
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;	1400 x 1050;	1920 x 1200;
1280 x 1024;	1440 x 900;	1920 x 2160;
1280 x 720;	1600 x 1200;	3840 x 2160;
1360 x 768;	1650 x 1050;	4096 x 2160
1366 x 768;	1920 x 1080;	

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 (symmetrical)

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)

Regulatory

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

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

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

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; NaViSet Administrator 2

Security
Disable HW Buttons; Disable IR Functionality; Emergency Notification

[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

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