Datasheet

Reliable touch performance for budget-driven usage

Offering a professional feature set and Sharp/NEC's renowned high reliability, yet at a very attractive price point, the NEC ME series with infrared touch delivers a satisfying user experience with a fast and precise touch response. Only commercial-grade displays are capable of delivering reliable, longlife performance and the ME series presents lower budget business operators the upgrade path to professional interactive digital signage without requiring specialist expertise

Thanks to Sharp/NEC's modular computing approach and compatibility with all major operating systems, the ME series infrared touch provides all the flexibility you need to address all kinds of different use cases. Capable of landscape or portrait orientation and up to 18/7 hours continuous operation, the M series with infrared touch is designed for local retailers, restaurants and small business enterprises to assist shoppers, take orders and facilitate interaction in small meeting spaces.

Benefits

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

Inspiring touch performance boosts user experience – the fast, stable and robust touch performance supports up to 20 touch points.

Resilient and durable – thermal tempered glass with anti-glare coating withstands vandalism and ensures perfect readability with reduced reflection and minimal visibility of finger prints.

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

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

Product Information

Product Name	NEC MultiSync® ME501 IR
Product Group	LCD 50" Infrared Touch Display
Order Code	60005081

Display

Panel Technology	VA with Direct LED backlights
Screen Size [inch/cm]	50 / 125.7
Aspect Ratio	16:9
Brightness [cd/m²]	400
Contrast Ratio (default)	> 8000:1
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
Supported Orientation	Landscape; Portrait

Touch

Touch Technology	Infrared
Number of Touches	Real multi-touch up to 20 touches
Frame Rate [Hz]	125
Touch Method	Finger; Gloves; Stylus (≥ 2 mm)
Supported Operating System	Android; Linux; Mac OS; Raspberry Pi; Windows
Data Interface	USB-HID
Accuracy [mm]	+/- 2
Windows Ink	no
Palm Rejection	no

Glass

Type	Thermal-tempered, anti-glare coating
Thickness [mm]	3
Light Transmission [%]	92 (+/- 2 %)
Haze Level [%]	4
Hardness [H]	7

Resolution

Native Resolution	3840 x 2160			
Supported Resolutions	1024 x 768;	1366 x 768;	1650 x 1050;	2560 x 1440;
	1280 x 1024;	1400 x 1050;	1920 x 1080;	2560 x 1600;
	1280 x 720;	1440 x 900;	1920 x 1200;	3840 x 2160;
	1360 x 768;	1600 x 1200;	1920 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 66 W
Compute Module Slot	RPi Compute Module 4

Sensors

Temperature Sensor	Integrated, 3 sensors, triggered actions programmable

Electrical

Power Consumption [W]	85 shipping
Power Savings Mode [W]	< 0.5; < 2 (Networked Standby)
Power Management	VESA DPMS
Power Supply	100-240 V AC; 50/60 Hz

Environmental Conditions

Operating Temperature [°C]	+0 to +35
Operating Humidity [%]	20 to 80
Storage Humidity [%]	10 to 90
Storage Temperature [°C]	-20 to 60

Mechanical

Dimensions (W x H x D) [mm]	1,143 x 661.5 x 80
Weight [kg]	27.8
Bezel Width [mm]	18.95 (left and right); 20 (top and bottom)
VESA Mounting [mm]	4 holes; 400 x 400 (FDMI); M6
Ingress Protection	IP5x (front); IP2x (back)
Packaging Dimensions (W x H x D) [mm]	Box 1: 1,298 x 860 x 224
Packaging Weight [kg]	Box 1: 34.6

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-401; ST-43M); Passive Pens (CB-PENS-3); Presence Sensor (KT-RC3); Soundbar (SP-ASCM-IQ2; SP-ASCM-2; SP-AS2); Speaker (SP-RM3a); Trolley (PD04Tipster); Wall mount (PDW S 32-55 L/P)

Green Features

Energy Efficiency	Energy consumption: 85 kWh/1000 h; LED backlight
Ecological Standards	EnergyStar 8.0

Additional Features

Special Characteristics	HDMI ARC; Powered USB Port (10 W)
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; USB cable
Warranty	3 years warranty incl. backlight; additional services available
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; Disable IR Functionality; Emergency Notification; Emergency Notification

FCC Class B	CE	RCM	VCCI	RoHS