NEC MultiSync® M321
LCD 32" Message Large Format Display

Datasheet

Intuitive professional content delivery

For economical signage in 24/7 commercial environments, the 32" MultiSync® M321 delivers all the professional performance and features you need, whilst minimising the cost of ownership. With a 450 cd/m2 brightness output and anti-glare panel, the viewer enjoys excellent visual quality unhindered by reflections, with a slim, aesthetic design for unobtrusive integration.

Featuring multiple industry standard digital and analogue signal inputs, the M321 is future-proof for flexible integration. It also features full external control support through both RS-232 or LAN connectivity enabling operators to achieve time and cost savings when managing an estate of displays.

The full metal chassis, high end componentry and integrated schedule function affords peace of mind for extended runtimes, ideal for retail and transportation applications.

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

Unhindered readability – no reflections from windows or other light sources means no disruption to the visibility of signage content or meeting room presentation

Mission-critical 24/7 ready operation – the meticulous selection of industrial-grade components and careful design focused on demanding usage scenarios accompany an impressive and continuous viewer experience.

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

Product Information

Product Name	NEC MultiSync® M321
Product Group	LCD 32" Message Large Format Display
Order Code	60005288

Display

Panel Technology	IPS with Direct LED backlights
Screen Size [inch/cm]	32 / 80
Aspect Ratio	16:9
Brightness [cd/m²]	450
Contrast Ratio (typ.)	1100:1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Colour Depth [bn]	16.7 (8bit)
Response Time (typ.) [ms]	8
Panel Refresh Rate [Hz]	60
Haze Level [%]	Pro (28)
Supported Orientation	Face Up [1]; Landscape; Portrait

Resolution

Native Resolution	1920 x 1080			
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 - 91.1
Vertical Frequency [Hz]	23 - 86

Connectivity

Input Video Analogue	1 x VGA
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

Sensors

Temperature Sensor	Integrated, 3 sensors, triggered actions programmable

Electrical

Power Consumption [W]	40 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]	726.5 x 425.4 x 66.5
Weight [kg]	6.3
Bezel Width [mm]	11.8 (top); 11.9 (left and right); 17.2 (bottom)
VESA Mounting [mm]	100 x 100 (FDMI); 200 x 200 (FDMI); 4 holes; M4
Ingress Protection	IP5x (front); IP2x (back)
Packaging Dimensions (W x H x D) [mm]	870 x 527 x 160
Packaging Weight [kg]	9.8
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-32M); Presence Sensor (KT-RC3); Wall mount (PDW T XS)
External Computing	MPi4 Box; OPS/SDM standalone adapter to integrate any OPS/SDM computing or interface module

Regulatory

Safety and Ergonomics	CE; EAC; RoHS
Pixel Failure Class	ISO 9241-307, Class 2
Resistance to Fire	Metal backcover, plastic material certified acc. to UL94-5VB

Green Features

Energy Efficiency	Energy consumption: 41 kWh/1000 h; Energy efficiency class: G; LED backlight
Ecological Standards	EnergyStar 8.0

3rd Party Certifications

Crestron	Certified for Crestron Connected

Additional Features

Special Characteristics	DICOM Simulation; HDMI ARC; Powered USB Port (10 W); Removable Logo
Audio	Integrated Speakers (5 W + 5 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	24/7
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

[1] adjusted usage conditions for face up/down installations, please refer to operational guidelines or contact our support

[2] please refer to terms and conditions of warranty extensions

RoHS

CE