NEC MultiSync® M431 PG-2

LCD 43” Protective Glass Large Format Display

Datasheet

Meticously Powerful Signage with Professional Protection

The NEC MultiSync® M431 PG-2 combines professional protection of your investment with unparalleled display performance. Deliver your message with impact and seamless simplicity for the most convincing results.

Guaranteed reliability even under the toughest conditions is achieved with the super robust 4mm thick protective glass designed to withstanding external impacts. The anti-reflective glass surface combined with brightness levels of 500 cd/m² provides crisp and clear images and readability from different viewing angles and distances.

The MultiSync® M431 PG-2 is the perfect choice for creating a big and durable impression in public spaces with high volumes of people such as for applications in transportation, retail, hospitality and digital out of home as well as for tough environments in industrial applications.

Benefits

Maximum investment security – assured as the display is protected against damage from external impacts such as knocks and blows.

Protects the public – the thermally toughened protective glass will disintegrate into small fragments reducing the risk of injury should it suffer extreme damage.

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.

Superb readability – supported through the use of anti-reflective and high light-transmission GroGlass® protective glass.

Product Information

Product Name	NEC MultiSync® M431 PG-2
Product Group	LCD 43" Protective Glass Large Format Display
Order Code	60005850

Display

Panel Technology	IPS with Edge LED backlights
Screen Size [inch/cm]	43 / 108
Aspect Ratio	16:9
Brightness [cd/m²]	500
Contrast Ratio	≥ 8000:1 [1]
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Colour Depth [bn]	1.076 (10bit)
Response Time (typ.) [ms]	8
Panel Refresh Rate [Hz]	60
Haze Level [%]	Pro (28)
Supported Orientation	Landscape; Portrait

Glass

Type	GroGlass® Protective Glass; Premium toughened glass, anti-glare coating
Thickness [mm]	4
Light Transmission [%]	≥ 97
Reflection Rate [%]	1

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 - 91.1
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
Compute Module Slot	RPi Compute Module 4

Sensors

Ambient Light Sensor	Integrated, triggered actions programmable

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]	987.4 x 569 x 75.9
Weight [kg]	25.6
Bezel Width [mm]	15 (top); 19.6 (bottom); 20.6 (left and right)
VESA Mounting [mm]	300 x 300 (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]	31.1
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); 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: 68 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	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
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

VCCI

FCC Class B

RCM

RoHS

CE

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