

## NEC MultiSync® E868

LCD 86" Essential Large Format Display

# Datasheet



### Functionality you need for presentations and digital signage

Designed for the rigours of commercial usage, yet at an impressively low total cost of ownership, with 18/7 operating hours the 86-inch MultiSync® E868 Large Format Display delivers the functionality and reliability you need for large meeting rooms and digital signage. The robust metal chassis which naturally dissipates heat is safeguarding long life performance, fire safety and sustainable waste management.

A professional haze level (Pro 28) supports excellent visibility without distracting reflections; combined with brightness of up to 400 cd/m<sup>2</sup>, the E868 meets the demands of today's meeting room environments. Presenters can feel confident, benefiting from instant meeting start-up, thanks to auto input detection and easy switching between HDMI sources.

An integrated MediaPlayer supports native UHD resolution and High Dynamic Range (HDR) for deep contrasts and natural looking content playback with auto-play function. Requiring no additional cables, external devices or signage software, the USB MediaPlayer enables a simple seamless professional signage solution.

Facilities managers will welcome the ability to remotely control their digital estate via the network thanks to the integrated LAN and NEC NaViSet Administrator 2 functionality making this display the perfect choice for corporate meeting rooms and entry level digital signage.

## Benefits

**Reduced Installation and Operating Costs** – highly energy efficient LED backlit display ensures low power consumption, longer backlight lifetime and lighter design for easy transportation, mounting and integration.

**Slim Design and Integrated Speakers** – the aesthetic design is pleasing to the eye and enables easy, low cost installation.

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

**Standalone operation** – the display is designed for straightforward standalone operation due to integrated USB media player, speakers and scheduling functionality.

**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® E868                    |
| Product Group | LCD 86" Essential Large Format Display |
| Order Code    | 60005159                               |

## Display

|                                 |                                                             |  |  |  |
|---------------------------------|-------------------------------------------------------------|--|--|--|
| Panel Technology                | IPS with Direct LED backlights                              |  |  |  |
| Active Screen Area (W x H) [mm] | 1,895.04 x 1,065.96                                         |  |  |  |
| Screen Size [inch/cm]           | 85.6 / 217.43                                               |  |  |  |
| Aspect Ratio                    | 16:9                                                        |  |  |  |
| Pixel Pitch [mm]                | 0.494                                                       |  |  |  |
| Brightness [cd/m²]              | 400                                                         |  |  |  |
| Contrast Ratio                  | ≥ 8000:1 <sup>1</sup>                                       |  |  |  |
| Viewing Angle [°]               | 178 horizontal / 178 vertical (typ. at contrast ratio 10:1) |  |  |  |
| Colour Depth [bn]               | 1.073 (10bit)                                               |  |  |  |
| Response Time (typ.) [ms]       | 8                                                           |  |  |  |
| Panel Refresh Rate [Hz]         | 60                                                          |  |  |  |
| Haze Level [%]                  | Pro (25)                                                    |  |  |  |
| Supported Orientation           | Landscape; Portrait                                         |  |  |  |

## Resolution

|                       |                             |                              |                            |                         |
|-----------------------|-----------------------------|------------------------------|----------------------------|-------------------------|
| Native Resolution     | 3840 x 2160                 |                              |                            |                         |
| Supported Resolutions | 1280 x 720;<br>1920 x 1080; | 1920 x 1200;<br>3840 x 2160; | 4096 x 2160;<br>640 x 480; | 720 x 480;<br>720 x 576 |

**Synchronisation Rate**

|                            |          |
|----------------------------|----------|
| Horizontal Frequency [kHz] | 15 - 136 |
| Vertical Frequency [Hz]    | 24 - 75  |

**Connectivity**

|                       |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| Input Video Analogue  | 1 x VGA; Component (RCA); Composite (RCA)                                    |
| Input Video Digital   | 3 x HDMI                                                                     |
| Input Audio Analogue  | 1 x 3,5 mm jack                                                              |
| Input Audio Digital   | 3 x HDMI                                                                     |
| Input Control         | LAN 100Mbit; RS232                                                           |
| Input Data            | 1 x USB 2.0 (MediaPlayer); 1 x USB Typ-C (5V/3A, power for external devices) |
| Output Audio Analogue | 1 x 3,5 mm jack                                                              |
| Output Audio Digital  | 1 x SPDIF                                                                    |
| Remote Control        | Remote Control IR; RS-232C (9-pin D-sub) Input                               |

**Sensors**

|                      |                                            |
|----------------------|--------------------------------------------|
| Ambient Light Sensor | Integrated, triggered actions programmable |
|----------------------|--------------------------------------------|

**Electrical**

|                        |                                  |
|------------------------|----------------------------------|
| Power Consumption [W]  | 250 shipping                     |
| Power Savings Mode [W] | < 0.5; < 2 (Networked Standby)   |
| 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] | Without stand: 1,927.6 x 1,099.1 x 83.2   |
| Weight [kg]                 | Without stand: 46                         |
| Bezel Width [mm]            | 14.3 (left, right and top); 14.8 (bottom) |

|                    |                               |
|--------------------|-------------------------------|
| VESA Mounting [mm] | 4 holes; 600 x 400 (FDMI); M8 |
| 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-801); Trolley (L20PNSR780MEU); Wall mount (L20PNWALL90EU); Wall mount (SF680P) |
|-------------|-----------------------------------------------------------------------------------------|

## Regulatory

|                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Safety and Ergonomics | EMC Class B; Energy Star 8; FCC; PSB; RCM; TÜV S; UL/C-UL; VCCI |
|-----------------------|-----------------------------------------------------------------|

## Green Features

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| Energy Efficiency    | Energy consumption: 176 kWh/1000 h; Energy efficiency class: G; LED backlight |
| Ecological Standards | EnergyStar 8.0                                                                |

## 3rd Party Certifications

|          |                                           |
|----------|-------------------------------------------|
| Crestron | Certified for Crestron CCV2 and XiO Cloud |
|----------|-------------------------------------------|

## Additional Features

|                         |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special Characteristics | Ambient Light Sensor; Audio settings with equalizer; CEC Support; Colour temperature mode; Display Browser Control; Energy saving picture mode; HDMI with UHD at 60 Hz; HDR Gamma Support (HLG, PQ); Mac and Windows compatible; NaViSet Administrator 2 - free download; Powered USB-Port; Retail picture mode; Scheduler; SNMP Support; USB Media Player |
| Colour Versions         | Black Front Bezel, Black Back Cabinet                                                                                                                                                                                                                                                                                                                      |
| 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 |
| Operating Hours  | 18/7                             |
| External Control | Crestron Connected               |

<sup>1</sup> out of the box conditions, local dimming ON



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