NEC Display Solutions, Ltd.

Large-Screen LCD

Orchestrating a brighter world

NEC LCD Professional Large Format Displays

Multisync X981UHD-2 / X841UHD-2 / X651UHD-2 / X551UHD

Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>X981UHD-2</th>
<th>X841UHD-2</th>
<th>X651UHD-2</th>
<th>X551UHD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viewable Dia. Design</td>
<td>2,204.8 × 1,259.8</td>
<td>2,204.8 × 1,297.4</td>
<td>2,157 × 1,290</td>
<td>2,158.8 × 1,214.4</td>
</tr>
<tr>
<td>Panel Technology</td>
<td>ST-801</td>
<td>ST-701</td>
<td>ST-651</td>
<td>ST-601</td>
</tr>
<tr>
<td>Brightness (Typical / Min.)</td>
<td>3,840 / 500 cd/m²</td>
<td>3,840 / 500 cd/m²</td>
<td>400 / 500 cd/m²</td>
<td>400 / 500 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle (Horizontal / Vertical)</td>
<td>178 horizontal / 178 vertical</td>
<td>178 horizontal / 178 vertical</td>
<td>178 horizontal / 178 vertical</td>
<td>178 horizontal / 178 vertical</td>
</tr>
<tr>
<td>Typical Response Time (Gray to Gray)</td>
<td>6 ms</td>
<td>6 ms</td>
<td>6 ms</td>
<td>6 ms</td>
</tr>
<tr>
<td>Panel Technology</td>
<td>IPS</td>
<td>IPS</td>
<td>IPS</td>
<td>IPS</td>
</tr>
<tr>
<td>Active Screen Area (W × H)</td>
<td>2,355 × 1,454</td>
<td>2,355 × 1,454</td>
<td>2,355 × 1,454</td>
<td>2,355 × 1,454</td>
</tr>
<tr>
<td>Viewable Size (Diagonal)</td>
<td>64.5” (163.8 cm)</td>
<td>64.5” (163.8 cm)</td>
<td>54.6” (138.5 cm)</td>
<td>54.6” (138.5 cm)</td>
</tr>
<tr>
<td>Contrast Ratio (Typical)</td>
<td>3,840:1</td>
<td>3,840:1</td>
<td>4,000:1</td>
<td>4,000:1</td>
</tr>
<tr>
<td>Power Consumption (Typical)</td>
<td>420 W</td>
<td>420 W</td>
<td>150 W</td>
<td>150 W</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>100 – 240 V, 50 / 60 Hz</td>
<td>100 – 240 V, 50 / 60 Hz</td>
<td>100 – 240 V, 50 / 60 Hz</td>
<td>100 – 240 V, 50 / 60 Hz</td>
</tr>
<tr>
<td>Dimensions (W × H × D)</td>
<td>1,931.0 × 1,117.0 × 85.0 mm</td>
<td>1,931.0 × 1,117.0 × 85.0 mm</td>
<td>1,430 × 920 × 250 mm</td>
<td>1,430 × 920 × 250 mm</td>
</tr>
<tr>
<td>Net Weight (without stand)</td>
<td>117.0 kg</td>
<td>117.0 kg</td>
<td>70.5 kg</td>
<td>70.5 kg</td>
</tr>
<tr>
<td>Gross Weight (with box)</td>
<td>150 W</td>
<td>150 W</td>
<td>70.5 kg</td>
<td>70.5 kg</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>20 to 80 °C (without condensation)</td>
<td>20 to 80 °C (without condensation)</td>
<td>10 to 35 °C (without condensation)</td>
<td>10 to 35 °C (without condensation)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>20 to 80 % (without condensation)</td>
<td>20 to 80 % (without condensation)</td>
<td>20 to 80 % (without condensation)</td>
<td>20 to 80 % (without condensation)</td>
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</tbody>
</table>

Options

- OPS-Single Board Controller (Computer)
- OPS-Single Board Controller (Computer)
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NEC is ushering in a new era of visual experience with Ultra High Definition (UHD).

Loaded with innovative features and high end components, this series delivers a complete package for all kinds of demanding professional applications. These displays are ideal for any heavy duty application: from control rooms to CAD/CAM, from medical review to professional conferencing, and from creative multimedia design to life size digital signage.

Highlights

4K Quality and Large Screens Offer Overwhelming Appeal

The impressive large screens offer 4K (3,840 x 2,160) display, which is four times the resolution of Full HD. They precisely reproduce photos and video down to their fine details and bring overwhelming presence, realism, and depth to public spaces.

UHD Upscaling Function

The UHD upscaling function can display Full HD video signals at a quality-level equivalent to 4K, so many conventional content types can be displayed at high quality.

Multi-Screen Display of Up to Four Screens Enables Display of Large Volumes of Information

The multi-screen function lets you divide the display and show separate input signals at the same time. Even when the display is divided into two, three, or four screens, there are various multi-screen functions using 4K ultra-high resolution. In addition, the display provides a seamless 4K multi-screen environment by displaying four Full HD (1,920 x 1,080) screens at the same time.

Display differences with Full HD (FHD)

Visibility differences by screen size (display range in Excel)

Examples of multi-screen display

SpectraView® Engine Precisely Recreates Colours with High Precision

The display can reproduce colours more accurately because it is equipped with a 3D lookup table and unique colour conversion algorithm through its dedicated imageprocessing IC. Various colour gamuts can be expressed precisely according to sRGB and other industry standards without calibration of each image-quality setting. In addition, display settings designed for different applications are preset at the factory as “Picture Mode” settings, so you can use a setting quickly by selecting it from the menu.

Support for MultiProfiler® Software to Easily Realize Various Emulation Functions

The display supports MultiProfiler®, NEC’s unique application software. Applying an ICC profile* to the display easily enables advanced colour reproduction, and you can also create and save ICC profiles for displays that require colour management.

ICC Profile Emulation Function

Using the newly developed MultiProfiler® application to apply various ICC profiles to the display has enabled highly accurate colour reproduction, even without software that supports colour management. By using simple operations, you can configure colour gamut such as sRGB and AdobeRGB, and colour matching for displays of other companies is also supported.

Human Sensor and Advanced Auto Dimming

This new optional human (motion) sensor accessory (KT-RC2) helps to deliver creative digital signage to end users by allowing for dynamic control of brightness, audio and source inputs while saving on operating costs. Auto dimming adjusts the backlight of the LCD automatically depending on the amount of ambient light.

Practical example

Dedicated Colour Calibration Software*.

As the brightness and colour temperature of the LCD change with time, colours may not match across multiple screens. Our dedicated colour calibration software ensures colour uniformity and fidelity across multiple screens, creating a perfectly matched image in tiled environments.

MultiScreen Display

4-screen display

3-screen display

2-screen display

SpectraView® engine 3D lookup table

NaViSet Administrator 2

This software is an all-in-one remote support solution that runs from a central location and provides monitoring, asset management and control functionality of the majority of NEC display devices and Windows computers. It is ideal for multi-device installations over larger infrastructures.

Other Useful Features and Functions

- Remote control ID
- Intelligent power management system
- Screen saver function
- Aspect ratio control
- Memo function
- Carbon footprint metric
- Image and on-screen display flip
- Zoom
- 6-axis colour adjustments and sRGB standard
- Advanced video settings (Noise reduction, adaptive contrast)
- Colour temperature adjustment
- Programmable gamma setting (3 settings)
- DICOM SM
- Plug and pay (DDC/CI, DDC2B)
- HDCP (high-bandwidth Digital Content Protection)
- USB hub
- Crestron RoomView
- AMX Discovery HTTP server
- PJLink
- Self-diagnosis
- Proof of play
- Status log function firmware
- Upgrade over LAN
- Control lock function
- Handles