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</table>

www.necdisplaysolutions.com
Precautions And Reminders

Do not place the display in confined spaces or in a box when in use. Maintain ample ventilation for the display when in use.

Do not open the display cabinet.

Call a NEC certified service personnel for any internal service needed for your display.

Keep the display away from direct sunlight, dust, humidity, smoke and oily areas.

Unplug immediately if the display falls.

Unplug immediately if there is a display malfunction such as a loss of audio/video, the presence of smoke, or a bad odor coming from the display.

Unplug the AC cord from the AC outlet before cleaning. Do not use liquid cleaners or aerosol cleaners to clean the display.

Do not place the display near water such as a bathtub, washbasin, sink, laundry tub, swimming pool, or a damp basement. Unplug immediately if the display has been exposed to rain or water.

Do not cover or block any vents or openings. Inadequate ventilation may shorten the life of the display and cause overheating.

Place the unit on a sturdy, even surface.

Do not insert any foreign objects into the display cabinet. Unplug immediately if objects have fallen into the display.

Unplug the power cord from the outlet when the display is not in use for long periods of time (days).

Notice for Remote Controller

Avoid Liquids

Avoid Aerosol Cleaners

Avoid Dropping
Important Safety Instructions

Read before operating equipment
Follow all warnings and instructions marked on this display.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. Unplug immediately if the display faces above condition.
15. The display complies with the recommended safety standards for stability. Do not put excessive force on the front or top of the cabinet. This could cause the product to tip over and cause damage and/or personal injury.

16. If display or glass is broken, do not come in contact with the liquid crystal and handle with care.

17. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.

18. Rest your eyes periodically by focusing on an object at least 5 feet away. Blink often.

19. Do not place any heavy objects on the power cord. Damage to the cord may cause shock or fire.

20. Do not use display in high temperature, humid, dusty, or oily areas.

21. Do not bend, crimp or otherwise damage the power cord.

22. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**WARNING:** To prevent the spread of fire, keep candles or other open flames away from this product at all times.

**IMPORTANT INFORMATION**

If a display is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the display.
- Only using furniture that can safely support the display.
- Ensuring the display is not overhanging the edge of the supporting furniture.
- Not placing the display on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the display to a suitable support.
- Not standing the displays on cloth or other materials placed between the display and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the display or its controls.
Important Information

**WARNING**

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO, DO NOT USE THIS UNIT’S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS UNLESS THE PRONGS CAN BE FULLY INSERTED.

REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH VOLTAGE COMPONENTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**CAUTION**

TO REDUCE THE RISK OF ELECTRIC SHOCK, MAKE SURE POWER CORD IS UNPLUGGED FROM WALL SOCKET. TO FULLY DISENGAGE THE POWER TO THE UNIT, PLEASE DISCONNECT THE POWER CORD FROM THE AC OUTLET. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol warns user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

**CAUTION:**

Please use the power cord provided with this display in accordance with the table below. If a power cord is not supplied with this equipment, please contact your supplier. For all other cases, please use a power cord that matches the AC voltage of the power outlet and has been approved by and complies with the safety standard of your particular country.

<table>
<thead>
<tr>
<th>Plug Type</th>
<th>European Continental</th>
<th>U.K.</th>
<th>Japanese</th>
<th>North America</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug Shape</td>
<td><img src="image" alt="Continental Icon" /></td>
<td><img src="image" alt="U.K. Icon" /></td>
<td><img src="image" alt="Japanese Icon" /></td>
<td><img src="image" alt="North America Icon" /></td>
</tr>
<tr>
<td>Region</td>
<td>EU (except U.K.)</td>
<td>U.K.</td>
<td>Japan</td>
<td>U.S.A./Canada</td>
</tr>
<tr>
<td>Voltage</td>
<td>230</td>
<td>230</td>
<td>100</td>
<td>120</td>
</tr>
</tbody>
</table>

This LCD display operates on 100-240 volts 50-60 Hz, AC current. Insert the power cord into a 100-240 volts 50-60 Hz outlet. The mains plug is used as the disconnect device and shall remain readily operable.
To prevent electric shock from the display, do not use with an extension cord, receptacle, or other outlet unless the blades and ground terminal can be fully inserted to prevent blade exposure.

Never connect the LCD display to other than the specified voltage.

CAUTION:
Never remove the back cover of the LCD display as this can expose you to very high voltages and other hazards. If the display does not operate properly, unplug the LCD display and call your authorized dealer or service center.
Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by NEC could void the user’s warranty.

Batteries installed warning
Incorrect usage of batteries can result in leaks or bursting.
NEC recommends the following battery use:
• Do not mix battery brands.
• Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
• Do not combine new and old batteries. This can shorten the battery life or cause liquid leakage of the batteries.
• Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
• Do not touch exposed battery acid as it may injure skin.
• Remove the batteries if you do not intend to use the remote control for a long period of time.
• The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

Image persistence
Please be aware that LCD Technology may experience a phenomenon known as Image Persistence. Image Persistence occurs when a residual or "ghost" image of a previous image remains visible on the screen. Unlike CRT monitors, LCD monitors' image persistence is not permanent, but constant images being displayed for a long period of time should be avoided. To alleviate image persistence, turn off the display for as long as the previous image was displayed. For example, if an image was on the display for one hour and a residual image remains, the display should be turned off for one hour to erase the image.

NOTE:
As with all personal display devices, NEC DISPLAY SOLUTIONS recommends displaying moving images and using a moving screen saver at regular intervals whenever the screen is idle or turning off the display when not in use.
CAUTION:
These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Ventilation
The slots and openings in the display are provided for necessary ventilation. To ensure reliable operation of the display and to protect it from overheating, these slots and openings must never be blocked or covered.

Unless proper ventilation is provided, the display may gather dust and get dirty. For proper ventilation, observe the following:

• Do not install the display face up, down or sideways.
• Do not install the display turned over or upside down.
• Never cover the slots and openings with a cloth or other materials.
• Never block the slots and openings by placing the display on a bed, sofa, rug or other similar surface.
• Never place the display in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.

Leave some space around the display set as shown below. Otherwise, air-circulation may be inadequate and will cause overheating, which may cause a fire or damage to the display set.

Install on the wall
For use only with UL Listed Wall Mount Bracket with minimum weight/load: Please refer to the Specification on page 31.

Unit without base weight: The equipment and its associated mounting means still remain secure during the test.

Used wall mounting kit, VESA-compatible wall bracket distance, diameter of Screw dimension: Please refer to the Specification on page 31.

**Installed with stand**

Never install the display set where air-circulation is blocked.

**Objects and ventilation holes**

Never push objects of any kind into the display through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or an electric shock. Do not place any objects on the display.
License Notice and Trademark
Acknowledgement

Windows is a registered trademark of Microsoft Corporation.
NEC is a registered trademark of NEC Corporation.
All other brands and product names are trademarks or registered trademarks of their respective owners.

HDMI®

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
Declaration Of Conformity

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions. (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

<table>
<thead>
<tr>
<th>U.S. Responsible Party:</th>
<th>NEC Display Solutions of America, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>500 Park Boulevard, Suite 1100</td>
</tr>
<tr>
<td></td>
<td>Itasca, Illinois 60143</td>
</tr>
<tr>
<td>Tel. No.:</td>
<td>(630) 467-3000</td>
</tr>
</tbody>
</table>

Type of Product: Display
Equipment Classification: Class B Peripheral
Model: E585, E425, E505, E325

We hereby declare that the equipment specified above conforms to the technical standards as specified in the FCC Rules.

Canadian Department of Communications Compliance Statement

DOC: This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

C-UL: Bears the C-UL Mark and is in compliance with Canadian Safety Regulations according to CAN/CSA C22.2 No. 60065-03.

FCC information

1. Use the attached specified cables with the E585/E505/E425/E325 color display so as not to interfere with radio and television reception.
   (1) Please use the supplied power cord or equivalent to ensure FCC compliance.
   (2) Please use the supplied shielded video signal cable, Mini D-SUB 15pin to Mini D-SUB 15 pin.

2. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
   • Reorient or relocate the receiving antenna.
   • Increase the separation between the equipment and receiver.
   • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
   • Consult the dealer or an experienced radio/TV technician for help.

Canadian notice

CAN ICES-3 (B) / NMB-3(B)
Contents

Your new NEC display box*¹ should contain the following:

- Display
- Power cord*²
- D-sub Cable
- Remote Control
- 1.5V AAA Size Batteries x2
- Setup Manual x1
- CD ROM

E585 / E505 / E425 / E325

NOTE:

*1: Remember to save your original box and packing material to transport or ship the display.

*2: Type and number of power cords included will depend on the where the display is to be shipped. When more than one power cord is included, please use a power cord that matches the AC voltage of the power outlet and has been approved by and complies with the safety standard of your particular country.

*3: The following stand base and screw are option parts.

(E585) Stand Base
(E505/E425/E325) Stand Screw

(EU) Power Cord*²
Video Signal Cable (Mini D-SUB 15 pin to Mini D-SUB 15 pin)

Wireless Remote Control and AAA Batteries
Setup Manual
CD-ROM

E585: M4 (14mm) x 6
E505: M6 (20mm) x 4
E425/E325: M4 (20mm) x 4
Preparation

**IMPORTANT:** Do not apply pressure to the screen display area which may compromise the integrity of the display. The manufacturer’s warranty does not cover user abuse or improper installations.

**Attaching the Base**

**E585**

![E585 Diagram]

- Stand Screw x 6
  - E585:M4 (14mm)

**E505 / E425 / E325**

![E505 Diagram]

- Stand Screw x 4
  - E505:M6 (20mm)
  - E425/E325:M4 (20mm)

1. Place the display face down on a soft and flat surface to prevent scratching and damage.
2. Carefully align the base to the button of the display and fasten the screws with a cross-head screwdriver.

**CAUTION:**
The base of the stand is very heavy. Install with care to avoid injury such as dropping the base onto one's foot.
Using Cable Clamper

Tie the cables together using the cable clamper.

Preparing Your LCD Display For Wall Mounting (optional)

We suggest that you keep your display at least 2.36 inches (60 mm) from the wall to prevent cable interference. Before mounting your display on the wall, you need to remove the base. For your safety, only mount with a UL listed wall mount bracket that supports the weight of the display. (Please see page 31.) To attach a wall mount bracket to your display:

1. Loosen the screws on the button of the base, and remove the base.
2. Secure the wall mount bracket to the back of your display using four M4 screws (for 32" only) or M6 screws (for 42"/50"/58" only).

<table>
<thead>
<tr>
<th>screen size (inches)</th>
<th>required pitch (mm)</th>
<th>VESA hole depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>58</td>
<td>400 x 400</td>
<td>4 x M6 (22 mm)</td>
</tr>
<tr>
<td>50</td>
<td>200 x 400</td>
<td>4 x M6 (15 mm)</td>
</tr>
<tr>
<td>42</td>
<td>200 x 200</td>
<td>4 x M6 (15 mm)</td>
</tr>
<tr>
<td>32</td>
<td>100 x 100</td>
<td>4 x M4 (12.5 mm)</td>
</tr>
</tbody>
</table>
NOTE:
Wall mounting solution is not included with the unit and is sold separately. Contact your NEC representative for details.
It is necessary to provide screw of appropriate length (Wall mount bracket thickness + VESA hole depth).

Prohibit portrait condition use

CAUTION:
Do not rotate the display from landscape to portrait.
Place The Display On A Solid Surface

Ensure that the LCD display is placed in a position to allow free flow of air. Do not cover the ventilation openings on the back cover. Do not place the display near any open flames. Do not allow the display to be placed in an environment where it can be exposed to heat, direct sunlight, or rain and water. Do not expose the equipment to any liquid.

Battery Installation and Replacement

The remote control is powered by two 1.5V AAA batteries. To install or replace batteries:

1. Open the battery cover of the remote control by pushing and pulling it in the direction of the arrow.
2. Insert two new “AAA” size batteries for the remote control. When replacing old batteries, push them towards the springs and lift them out.
3. Match the batteries to the (+) and (-) marks in the battery compartment.
4. Insert the bottom of the battery, the (-) side, into the battery compartment first, push towards the springs and insert the top of the battery, the (+) side, into place. Do not force the battery into the battery compartment.
5. Close the battery cover making sure the tabs rest in the corresponding holes and push down the cover until it clicks shut.
Connect To The Power Source

The display should be installed close to an easily accessible power outlet. Fully insert the prongs into the power outlet socket. A loose connection may cause image degradation.

If there is power to the display, the front LED at the bottom of the display will be either none or red. A red LED means the display is in standby mode.

Power On/Off Your New LCD Display

Press the power button on the remote control or press the power button located on the side of the display. The display will power on.

Power Mode Status

<table>
<thead>
<tr>
<th>Mode</th>
<th>On</th>
<th>Standby</th>
<th>Warming up</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Status</td>
<td>None</td>
<td>Red</td>
<td>Blinking Red</td>
</tr>
</tbody>
</table>

When in on mode, the Display operates as follows if no external signal is input.

1. When the external device is connected to the VGA terminal, the NO SIGNAL menu is displayed and 15 seconds later the Display switches to
warming up mode.

2. In warming up mode, when the Display receives a signal from an external VGA device, it switches automatically to on mode.

**NOTE:**
Note that in warming up mode, the Display does not switch automatically to on mode even if a signal is input from an external device using HDMI, component video or composite video.
If the power cord is unplugged during warming up mode, the Display will starts in standby mode the next time it is turned on.

3. When the external device is connected to another terminal (HDMI, component video, composite video), the NO SIGNAL menu is displayed and 15 minutes later the Display switches to standby mode.

4. In standby mode, press the power button on the remote control or on the side panel to switch the Display to on mode.

**NOTE:**
Note that in standby mode, the Display does not switch automatically to on mode even if a signal is input from an external device using VGA, HDMI, component video or composite video.
If the power cord is unplugged during standby mode, the Display will starts in the same standby mode the next time it is turned on.

**TIP:**
When Home mode is set under Energy Options in the on-screen display menu, the Display switches to power saving mode if no external signal is input.
When Retail mode is set under Energy Options in the on-screen display menu, the Display does not switch to power saving mode when no external signal is input.
When On is set under Auto Power Off in the on-screen display menu, the Display automatically turns off if the user does not operate the Display for more than 4 hours.
When the sleep timer has been set in the on-screen display menu, the Display automatically turns off after the set time has elapsed.
1. **RS-232C** – Connect to your PC, and receive the control commands from the PC.

2. **HDMI (HDMI1, HDMI2, HDMI3)** – Connect to your HDMI devices.

3. **USB port** – Used for accessing photo, music, and movie files.

4. **PC IN (VGA / AUDIO)** – Connect to your PC video and audio.

5. **COMPONENT / AV IN** –
   - Component: Connect to digital video equipment to the Video Green (Y), Blue (Pb), Red (Pr) jacks, and matching Audio White (L) and Red (R) jacks.
   - Composite: Connect to digital video equipment to the Video Green (AV), jacks, and matching Audio White (L) and Red (R) jacks.

6. **SPDIF OUT** – Use a digital audio cable to connect to stereo home theater system.
1. **RS-232C** – Connect to your PC, and receive the control commands from the PC.

2. **HDMI (HDMI1, HDMI2, HDMI3)** – Connect to your HDMI devices.

3. **USB port** – Used for accessing photo, music, and movie files.

4. **PC IN (VGA / AUDIO)** – Connect to your PC video and audio.

5. **COMPONENT / AV IN** –
   - Component: Connect to digital video equipment to the Video Green (Y), Blue (Pb), Red (Pr) jacks, and matching Audio White (L) and Red (R) jacks.
   - Composite: Connect to digital video equipment to the Video Green (AV), jacks, and matching Audio White (L) and Red (R) jacks.

6. **SPDIF OUT** - Use a digital audio cable to connect to stereo home theater system.

Once your AV device is connected, press the **Source** button on the remote control to select the relevant source to view. (ex: Press COMP button to select “Component” if you have connected a source to the Component input.)
### Operating Instructions

#### Using The Side Panel Controls

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>
| 1. | VOL + | Press to increase the volume.  
|   |     | Press this button to shift Right in the OSD menu.  |
| 2. | VOL - | Press to decrease the volume.  
|   |     | Press this button to shift Left in the OSD menu.  |
| 3. | CH ‡ | Press this button to shift up in the OSD menu.  |
| 4. | CH ∨ | Press this button to shift down in the OSD menu.  |
| 5. | MENU | Press to open or exit the OSD (On-Screen Display) menu.  |
| 6. | INPUT | Press to select the input source.  |
| 7. | POWER | Press to turn on / off (standby) the display.  |
Using The Remote Control

**Power**
Press to turn On/Off (standby) the power. (NOTE: To completely turn off the power, unplug the power cord from the power outlet.)

**TV**
No function.

**AV**
Press to choose Composite source mode.

**COMP**
Press to choose Component source mode.

**HDMI/PC**
Press repeatedly to choose PC IN or HDMI source mode.

**0 – 9 / -**
Only available on Input List menu.

**PRE CH**
No function.

**Source**
Press repeatedly to choose the various input sources.

**Mute**
Switch the sound On/Off.

**VOL + / VOL –**
Press + or – to adjust the volume.

**CH + / CH –**
No function.

**Exit**
Press to exit the OSD menu.

**Display**
Press to show the information.

**FAV**
No function.

**Menu**
Press to open the OSD menu.

**△, ▽, ◀, ▶, OK**
Press to select or confirm the various function items on the menu.

Use in the USB menu and HDMI CEC function.

**MTS**
No function.

**Wide**
Press to choose the display aspect ratio: Normal / Zoom / Wide / Cinema.
Picture
Press to choose the picture mode:
Dynamic / Standard / Energy Savings
/ Theater / Custom.

Audio
Press to choose sound mode:
Standard / Movie / Music / News /
Custom.

Operating Range for the Remote Control
Point the top of the remote control toward the LCD monitor’s remote sensor
during button operation.
Use the remote control within a distance of about 7 m (23 ft.) from remote
control sensor or at a horizontal and vertical angle of within 30° within a
distance of about 3.5 m (10 ft.).

E585 / E505 / E425 / E325

CAUTION:
Important, the remote control system may not function when direct sunlight or strong
illumination strikes the remote control sensor or when there is an object in the path.
### Timing Table

<table>
<thead>
<tr>
<th>Resolution</th>
<th>WXGA (E325)</th>
<th>FHD (E585/E505/E425)</th>
<th>Horizontal</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VGA</td>
<td>DVI</td>
<td>VGA</td>
<td>DVI</td>
</tr>
<tr>
<td>640 × 480@60Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>720 × 400@70Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>800 × 600@60Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1024 × 768@60Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1280 × 720@60Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1280 × 800@60Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1366 × 768@60Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1920 × 1080@60Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Resolution

<table>
<thead>
<tr>
<th>Resolution</th>
<th>WXGA (E325)</th>
<th>FHD (E585/E505/E425)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HDMI</td>
<td>Component</td>
</tr>
<tr>
<td>480i 60Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>480p 60Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>720p 60Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1080i 60Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1080p 24Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1080p 30Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1080p 60Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>720p 50Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>576p 50Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>576i 50Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1080i 50Hz</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>1080p 50Hz</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

**NOTE:**

- Use Down-scaling function. Image quality is limited.
Navigating The On-Screen Menu

Press the Menu button to display and Exit to close the main menu.

Use the Navigation Ring to navigate, select, adjust or confirm an item on the OSD (On Screen Display) menu.

NOTE: Some features may only be available in a particular source mode.

Video Menu
This menu adjusts video items.

1. **Picture Mode**
Enter this menu to select from preset picture settings to optimize your display’s performance:

2. **Brightness**
Adjust picture brightness from 0 — 100.

3. **Contrast**
Adjust picture contrast from 0 — 100.

4. **Color**
Adjust picture color from 0 — 100.

5. **Advanced Video**
Select advanced video settings.
   **[Dynamic Backlight (DCR)]**
   Enhance the contrasts between darkness and brightness to optimization the picture.
   **[Color Temperature]**
   Select a choice from Cool, Normal, or Warm.

6. **Reset Video Settings**
Reset Video settings to factory default settings.

[Noise Reduction]
Set to reduce the video noise.

[Tint]
Adjust the hue (Red, Green, Blue) of the picture from R50 — G50.

[Sharpness]
Adjust object edges to optimize picture detail from 0 — 100.

[Adaptive Contrast]
Set to automatically adjust the picture detail and brightness.

[Aspect Ratio]
Adjust how the picture fills the screen. Normal / Zoom / Wide / Cinema

[Overscan (On/Off)]
Some video formats may require different scanning modes in order to best display the image.
On: Image size is larger than what can be displayed. The image edge will appear cropped. Approximately 95% of the image will be shown on the screen.
Off: Image size stays within the display area. The whole image is displayed on the screen.

NOTE: When you use a computer with HDMI out, please set “OFF”.

[Backlight]
Set the backlight brightness from 0 — 50.
Audio Menu
The Audio menu provides an audio adjustment for user to modify the audio setting.

1. **Sound Mode**
   Select preset audio modes. **Standard / Movie / Music / News / Custom.**

2. **Balance**
   Adjust the audio balance for the display’s internal left and right speakers from L50 – R50.

3. **Advanced Audio**
   Select advanced audio settings.
   - **[Bass]**
     Enhance the low frequencies.
   - **[Treble]**
     Enhance the high frequencies.
   - **[Internal Speakers]**
     Select **Off** to turn off the internal speakers.
   - **[Digital Output]**
     Select optical output options: **RAW** or **PCM** *(Only available for HDMI input source).*

4. **Reset Audio Settings**
   Reset Audio settings to factory default settings.

Setup Menu
According to various requirements in different source modes, certain features could be hidden (disabled) on the menu.

1. **Menu Language**
   Select the menu display language.

2. **Sleep Timer**
   Select how long the display will take to automatically turn itself off. **Off / 5 / 10 / 15 / 30 / 60 / 90 / 120 / 180 / 240** (minutes)

3. **Energy Options**
   **Home** mode is intended for home use, and will save much energy. In this mode, the Display automatically switches to power saving mode when no external signal is input.
   **Retail** mode is a relatively more energy consuming mode. In this mode, the Display does not switch to power saving mode when no external signal is input.

4. **Auto Power Down**
   Select **On** to enable your display to turn off automatically when you do not press any buttons in 4 hours.

5. **RGB Options**
   *(Only available for VGA input, and when there is VGA signal input)*
   - **[Auto Adjust]**
     Automatically adjust the image settings such as position.
[H-Position]
Adjust horizontal position.

[V-Position]
Adjust vertical position.

[Clock]
Set to the minimum level if noise occurs.

[Phase]
Eliminate flicker and distortion.

[Reset RGB Options]
Reset RGB Options to factory default settings.

6. **Monitor ID**
Set the monitor ID number from 1-100, All, or Group A─J.

7. **Time Schedule**
This function enables your display to turn on and off automatically.

   [Schedule Status]
Select On to enable Time Schedule.

   [Current Time]
Set the current time before using this function.

   [Power On]
Set the time for your display to turn on.

   [Power Off]
Set the time for your display to turn off.

8. **HDMI CEC**
This function enables you to control the HDMI CEC compliant device connected via the HDMI connector.

   [Enable CEC]
Select On to enable HDMI CEC.

   [Audio Receiver]
Select On to enable to return the audio signal to other speakers.

   [Device List]
Show the device list.

9. **IR Lock Setting**
Select On to lock your remote control, and the remote control will disable to control the display. Press Display button for 5 seconds can unlock it.

10. **System Info**
Indicate the display information.

11. **Reset AV & Setup**
Reset all Audio, Video, and Setup settings to factory default settings.
USB Menu

You could browse images, listen to musics, or play videos from USB device.

If no USB device is detected, the message displayed: “Please Insert USB flash drive.”

• Change input source to exit the USB mode.

To control while in folder:
• Press ▲, ▼, ◄, ► button to browse the files.
• Press OK button to open a folder or play the selected file.
• Press EXIT button to return to previous folder.

To control the operation bar:
• Press OK / Menu button to display operation bar on the bottom of screen.
• Press Display button to show operation bar and information window.
• Press ◄, ► button to select the item on operation bar.
• Press EXIT to hide operation bar.

To control while viewing photos:
• Select PLAY or press ► button to play image slideshow.
• Select pause button to pause the playing image.
• Select ◄ button to go to previous image.
• Select ► button to go to next image.
• Select ■ button to stop the playing image slideshow.
• Select Display button to show the playing image’s information.
• Select to switch image size between the 4 styles by cycle. Full / X1 / X2 / X4
• Select to rotate the image clockwise.
• Select to repeat images in the folder. R_None / R_One / R_All
• Select to play background music. (The music file should be in the same folder.)

To control while enjoying musics or videos:
• Select PLAY or press ► button to play the file.
• Select pause button to pause the playing file.
• Select ◄ button to play fast backward. FB2X / FB4X / FB8X / FB16X / FB32 (Only for video)
• Select button to play fast forward. FF2X / FF4X / FF8X / FF16X / FF32 (Only for video)
• Select ◄ button to go to previous file. For playing musics, press ◄ button also can go to previous song.
• Select ► button to go to next file. For playing musics, press ► button also can go to next song.
• Select or press ■ button to
stop the playing file.

- Select  
  or press Display  button to show the playing file’s information.
- Select  
  to repeat files in the folder.  
  **R_None / R_One / R_All**
- Select  
  to mute while playing the music file.
- Press Wide  button to choose the display aspect ratio while playing the video file.  
  **4:3 / 16:9 / Auto**

### Data Format for USB

<table>
<thead>
<tr>
<th>Supported file system</th>
<th>FAT16/32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. folder layer</td>
<td>9</td>
</tr>
</tbody>
</table>

**PHOTO mode**

<table>
<thead>
<tr>
<th>Data format</th>
<th>JPEG, JPG, JPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. number of photos</td>
<td>1200</td>
</tr>
<tr>
<td>Min. image resolution</td>
<td>128 × 128 pixels</td>
</tr>
<tr>
<td>Max. image resolution (Progressive DCT)</td>
<td>1,024 × 768 pixels</td>
</tr>
<tr>
<td>Max. image resolution (Baseline Sequential DCT)</td>
<td>15,360 × 8,640 pixels</td>
</tr>
</tbody>
</table>

**MUSIC mode**

<table>
<thead>
<tr>
<th>Data format</th>
<th>MP3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bit rate</td>
<td>32Kbps ~ 448Kbps</td>
</tr>
</tbody>
</table>

**MOVIE mode**

| Data format | MPG, MPEG, MPEG2-TS, MPEG2-PS, MP4, MKV, AVI, Motion JPEG |

### CAUTION:

- Only supports USB Mass storage class devices.
- A JPEG image modified with PC may not be displayed.
- Partly degraded files might be displayed at a reduced resolution.
- Not guaranteed to support all USB devices.
- Do not use a USB Hub.
- Do not support multi-partition USB.

### NOTES:

- The folder and file names may be different depending on the digital camera used.
- Support USB 2.0 Type A connector (DC5V, max. 500mA). For USB device over 500mA, we suggest to use adaptor or external power.
Maintenance and Recycling

Care Of The Screen
Do not rub or strike the screen with anything hard as this may scratch, mar, or even damage the screen permanently. Unplug the power cord before cleaning the screen. Dust the display by wiping the screen and the cabinet with a soft, clean cloth. If the screen requires additional cleaning, use a clean, damp cloth. Do not use liquid cleaners, aerosol cleaners, or solvents of any kind.

Mobile Telephone Warning
Keep your mobile telephone away from your display to avoid disturbances in the picture or sound, possibly causing permanent damage to your display.

End Of Life Directives
In an effort to produce environmentally friendly products, your new display contains materials that can be recycled and reused. At the end of your displays life, specialized companies can minimize display waste by separating the reusable materials from non-reusable materials. Please ensure you dispose of your display according to local regulations.

Italian Homologation declaration
Questo apparecchio è fabbricato nella Comunità Economica Europea nel rispetto delle disposizioni di cui al D. M. 26/03/92 ed in particolare è conforme alle prescrizioni dell’art. 1 dello stesso D.M. Si dichiara che l’apparecchi.
Manufacturer’s Recycling and Energy Information

NEC DISPLAY SOLUTIONS is strongly committed to environmental protection and sees recycling as one of the company’s top priorities in trying to minimize the burden placed on the environment. We are engaged in developing environmentally-friendly products, and always strive to help define and comply with the latest independent standards from agencies such as ISO (International Organisation for Standardization) and TCO (Swedish Trades Union).

Disposing of your old NEC product

The aim of recycling is to gain an environmental benefit by means of re-use, upgrading, reconditioning or reclamation of material. Dedicated recycling sites ensure that environmentally harmful components are properly handled and securely disposed. To ensure the best recycling of our products, NEC DISPLAY SOLUTIONS offers a variety of recycling procedures and gives advice on how to handle the product in an environmentally sensitive way, once it has reached the end of its life.

All required information concerning the disposal of the product and country-specific information on recycling facilities can be found on our following websites:

http://www.nec-display-solutions.com/greencompany/ (in Europe),
http://www.nec-display.com (in Japan) or
http://www.necdisplay.com (in USA).

Energy Saving

This display features an advanced energy saving capability. When a VESA Display Power Management Signalling (DPMS) Standard signal is sent to the display, the Energy Saving mode is activated. The display enters a single Energy Saving mode.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power consumption</th>
<th>LED color</th>
</tr>
</thead>
<tbody>
<tr>
<td>On mode (with USB, with Audio)</td>
<td>Approx. 171 W (E585)&lt;br&gt;Approx. 124 W (E505)&lt;br&gt;Approx. 100 W (E425)&lt;br&gt;Approx. 53 W (E325)</td>
<td>None</td>
</tr>
<tr>
<td>Standby Mode</td>
<td>Less than 0.5 W</td>
<td>Red</td>
</tr>
</tbody>
</table>
WEEE Mark (European Directive 2012/19/EU)

Within the European Union
EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your NEC display products, please follow the guidance of your local authority, or ask the shop where you purchased the product, or if applicable, follow any agreements made between yourself and NEC.

The mark on electrical and electronic products only applies to the current European Union Member States.

Outside the European Union
If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority so as to comply with the correct disposal method.

Restriction on Hazardous Substances statement (India)
This product complies with the “India E-waste Rule 2011” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.
### Specification

#### Product Specifications

**E585**

<table>
<thead>
<tr>
<th>LCD Module</th>
<th>Resolution: 58&quot; / 1,473 mm diagonal</th>
<th>Over 16 million colors (depending on video card used)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Color: 1,920 x 1,080</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Horizontal: 31 – 83KHz (Analog input)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Vertical: 15.625/15.734KHz, 31 – 83KHz (HDMI input)</td>
</tr>
<tr>
<td></td>
<td>60Hz – 75Hz (Analog input)</td>
</tr>
<tr>
<td></td>
<td>24Hz, 30Hz, 50Hz, 60Hz – 75Hz (HDMI input)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pixel Clock</th>
<th>25 – 156 MHz</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Viewable Size</th>
<th>1270.08 (H) x 721.44 (V) mm</th>
</tr>
</thead>
</table>

#### Input Signal

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>Component</th>
<th>RCA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y: 1.0 V p-p / 75ohm, Pb/Pr (Cb/Cr): 0.7 V p-p / 75 ohm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AV IN</th>
<th>Composite</th>
<th>RCA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.0 V p-p / 75 ohm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VGA</th>
<th>Analog RGB</th>
<th>D-sub 15 pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI</td>
<td>Type A Connectors</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AUDIO</th>
<th>Audio Input</th>
<th>Analog Audio</th>
<th>Stereo mini jack</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Audio Input</td>
<td>AUDIO L / R</td>
<td>RCA</td>
</tr>
<tr>
<td></td>
<td>Audio Output</td>
<td>SPDIF OUT</td>
<td>PCM, Fibre optic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Speaker Output</th>
<th>Internal Speaker: 10 W + 10 W (8 ohm)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Control</th>
<th>RS-232C: 9 Pin D-sub</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>Standby: 1.8 A – 0.8 A @ AC 100 – 240V, 50/60Hz</td>
</tr>
<tr>
<td></td>
<td>Power consumption: &lt; 0.5 W</td>
</tr>
<tr>
<td></td>
<td>171 W</td>
</tr>
</tbody>
</table>

| Operational Environment | Temperature: 0°C – 40°C / 32°F – 104°F |
|                        | Humidity: 10% – 80% |
|                        | Altitude: 0 – 2,000 m |

| Storage Environment | Temperature: -10°C – 60°C / 14°F – 140°F |
|                     | Humidity: 5% – 85% |

<table>
<thead>
<tr>
<th>Dimension</th>
<th>with Stand and Base: 1300.9 (W) x 798.8 (H) x 349.2(D) mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>without Stand and Base: 1300.9 (W) x 758.8 (H) x 108.8(D) mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th>with Stand and Base: 21.90 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>without Stand and Base: 21.07 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VESA compatible mounting interface</th>
<th>400 mm x 400 mm (M6, VESA hole depth 22 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Management</td>
<td>VESA DPM</td>
</tr>
<tr>
<td>Plug &amp; Play</td>
<td>VESA DDC2B</td>
</tr>
</tbody>
</table>

#### Accessories

- Remote control (1), 1.5 V AAA batteries (2)
- Power cord (1), D-sub cable (1), Setup Manual (1)
- CD ROM (1)

**NOTE:**

- All specifications, weights, and dimensions are subject to change without prior notice. Please access [www.necdisplay.com](http://www.necdisplay.com) for detailed specifications and dimensions for custom installations.
- This model may not be compatible with features and/or specifications that may be added in the future.
### E505

**LCD Module**
- **Resolution:** 50” 1,270 mm diagonal
- **Color:** 1,920 x 1,080
- **Color:** Over 16 million colors (depending on video card used)

**Frequency**
- **Horizontal:** 31 – 83KHz (Analog input)
- **Vertical:** 15.625/15.734KHz, 31 – 83KHz (HDMI input)
- **Horizontal:** 60Hz – 75Hz (Analog input)
- **Vertical:** 24Hz, 30Hz, 50Hz, 60Hz – 75Hz (HDMI input)

**Pixel Clock**
- 25 – 156 MHz

**Viewable Size**
- 1095.84 (H) x 616.41 (V) mm

**Input Signal**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>Component</th>
<th>RCA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Y: 1.0 V p-p / 75ohm,</td>
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<tr>
<td></td>
<td></td>
<td>Pb/Pr (Cb/Cr): 0.7 V p-p / 75 ohm</td>
</tr>
<tr>
<td>AV IN</td>
<td>Composite</td>
<td>RCA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.0 V p-p / 75 ohm</td>
</tr>
<tr>
<td>VGA</td>
<td>Analog RGB</td>
<td>D-sub 15 pin</td>
</tr>
<tr>
<td>HDMI</td>
<td></td>
<td>Type A Connectors</td>
</tr>
</tbody>
</table>

**AUDIO**

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<td>Audio Input</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>0.5 Vrms / 75 ohm</td>
</tr>
<tr>
<td>Audio Output</td>
<td>SPDIF OUT</td>
<td>PCM, Fibre optic</td>
</tr>
</tbody>
</table>

**Speaker Output**
- Internal Speaker: 10 W + 10 W (8 ohm)

**Control**
- RS-232C: 9 Pin D-sub

**Power Supply**
- Standby: 1.3 A – 0.6 A @ AC 100 – 240V, 50/60Hz
- Power consumption: < 0.5 W
- Power consumption: 124 W

**Operational Environment**
- **Temperature:** 0°C – 40°C / 32°F – 104°F
- **Humidity:** 10% – 80%
- **Altitude:** 0 – 2,000 m

**Storage Environment**
- **Temperature:** -10°C – 60°C / 14°F – 140°F
- **Humidity:** 5% – 85%

**Dimension**
- **with Stand and Base:** 1123.6 (W) x 683.7 (H) x 255 (D) mm
- **without Stand and Base:** 1123.6 (W) x 646.7 (H) x 77 (D) mm

**Weight**
- **with Stand and Base:** 13.12 kg
- **without Stand and Base:** 12.62 kg

**VESA compatible mounting interface**
- 400 mm x 200 mm (M6, VESA hole depth 15 mm)

**Power Management**
- VESA DPM

**Plug & Play**
- VESA DDC2B

**Accessories**
- Remote control (1), 1.5 V AAA batteries (2)
- Power cord (1), D-sub cable (1), Setup Manual (1)
- CD ROM (1)

**NOTE:**
- All specifications, weights, and dimensions are subject to change without prior notice. Please access www.necdisplay.com for detailed specifications and dimensions for custom installations.
- This model may not be compatible with features and/or specifications that may be added in the future.
E425

LCD Module
Resolution: 42” 1,067 mm diagonal 1,920 x 1,080 Over 16 million colors (depending on video card used)
Color: 31 ~ 83KHz (Analog input) 15.625/15.734KHz, 31 ~ 83KHz (HDMI input) 60Hz ~ 75Hz (Analog input) 24Hz, 30Hz, 50Hz, 60Hz ~ 75Hz (HDMI input)
Frequency
Horizontal: Vertical: 25 ~ 156 MHz
Pixel Clock
Viewable Size 930.24 (H) x 523.26 (V) mm
Input Signal
Component Component RCA
Y: 1.0 V p-p / 75ohm, Pb/Pr (Cb/Cr): 0.7 V p-p / 75 ohm
AV IN Composite RCA 1.0 V p-p / 75 ohm
VGA Analog RGB D-sub 15 pin
HDMI Type A Connectors

Audio Input
Analog Audio Stereo mini jack
Audio Input AUDIO L / R RCA 0.5 Vrms / 75 ohm
Audio Output SPDIF OUT PCM, fibre optic

Speaker Output
Internal Speaker: 10 W + 10 W (8 ohm)
Control RS-232C: 9 Pin D-sub
Power Supply Standby: 1.0 A – 0.5 A @ AC 100 ~ 240V, 50/60Hz
< 0.5 W
Power consumption: 100 W
Operational Environment Temperature: 0°C ~ 40°C / 32°F ~ 104°F
Humidity: 10% ~ 80%
Altitude: 0 ~ 2,000 m
Storage Environment Temperature: -10°C ~ 60°C / 14°F ~ 140°F
Humidity: 5% ~ 85%
Dimension with Stand and Base: 959.7 (W) x 591.7 (H) x 255 (D) mm
without Stand and Base: 959.7 (W) x 555.2 (H) x 76.8 (D) mm
Weight with Stand and Base: 8.83 kg
without Stand and Base: 8.33 kg
VESA compatible mounting interface 200 mm x 200 mm (M6, VESA hole depth 15 mm)
Power Management VESA DPM
Plug & Play VESA DDC2B
Accessories Remote control (1), 1.5 V AAA batteries (2)
Power cord (1), D-sub cable (1), Setup Manual (1)
CD ROM (1)

NOTE:
• All specifications, weights, and dimensions are subject to change without prior notice. Please access www.necdisplay.com for detailed specifications and dimensions for custom installations.
• This model may not be compatible with features and/or specifications that may be added in the future.
### LCD Module
- **Resolution:** 32" / 813 mm diagonal, 1,366 x 7,68
- **Color:** Over 16 million colors (depending on video card used)

### Frequency
- **Horizontal:** 31 – 83KHz (Analog input), 15.625/15.734KHz, 31 – 83KHz (HDMI input)
- **Vertical:** 60Hz – 75Hz (Analog input), 24Hz, 30Hz, 50Hz, 60Hz – 75Hz (HDMI input)

### Pixel Clock
- **31 – 83KHz (Analog input)**
- **24Hz, 30Hz, 50Hz, 60Hz – 75Hz (HDMI input)**

### Viewable Size
- 697.685 (H) × 392.256(V) mm

### Input Signal

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>Component</th>
<th>Y: 1.0 V p-p / 75ohm, Pb/Pr (Cb/Cr): 0.7 V p-p / 75 ohm</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPONENT</td>
<td>RCA</td>
<td>Y: 1.0 V p-p / 75ohm, Pb/Pr (Cb/Cr): 0.7 V p-p / 75 ohm</td>
</tr>
<tr>
<td>AV IN</td>
<td>RCA</td>
<td>1.0 V p-p / 75 ohm</td>
</tr>
<tr>
<td>VGA</td>
<td>Analog RGB</td>
<td>D-sub 15 pin</td>
</tr>
<tr>
<td>HDMI</td>
<td>Type A Connectors</td>
<td></td>
</tr>
</tbody>
</table>

### AUDIO

<table>
<thead>
<tr>
<th>Audio Input</th>
<th>Component</th>
<th>Component</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Input</td>
<td>ANALOG</td>
<td>RCA</td>
<td>RCA</td>
</tr>
<tr>
<td>Audio Input</td>
<td>AUDIO L / R</td>
<td>RCA</td>
<td>RCA</td>
</tr>
<tr>
<td>Audio Output</td>
<td>SPdifout</td>
<td>PCM, Fibre optic</td>
<td>PCM, Fibre optic</td>
</tr>
</tbody>
</table>

### Power Supply
- **9 Pin D-sub**
- **0.9 A – 0.5 A @ 100 – 240V AC, 50/60Hz**
- **< 0.5 W**
- **53 W**

### Operational Environment
- **Temperature:** 0°C – 40°C / 32°F – 104°F
- **Humidity:** 10% – 80%
- **Altitude:** 0 – 2,000 m

### Storage Environment
- **Temperature:** -10°C – 60°C / 14°F – 140°F
- **Humidity:** 5% – 85%

### Dimension
- **with Stand and Base:** 726.7 (W) x 461.1 (H) x 255 (D) mm
- **without Stand and Base:** 726.7 (W) x 424.3 (H) x 76.8 (D) mm

### Weight
- **with Stand and Base:** 5.33 kg
- **without Stand and Base:** 4.83 kg

### VESA compatible mounting interface
- 100 mm x 100 mm (M4, VESA hole depth 12.5 mm)

### Power Management
- **VESA DPM**

### Accessories
- Remote control (1), 1.5 V AAA batteries (2)
- Power cord (1), D-sub cable (1), Setup Manual (1)
- CD ROM (1)

### NOTE:
- All specifications, weights, and dimensions are subject to change without prior notice. Please access www.necdisplay.com for detailed specifications and dimensions for custom installations.
- This model may not be compatible with features and/or specifications that may be added in the future.
**RS-232C Port Specifications**

**PC control of the Display**
Attach an RS-232C cable cross-type (commercially available) to the supplied RS-232C for the connections.

**NOTE:**
This operation system should be used by a person who is accustomed to using computers.

**Communication procedure**
Send the control commands from the PC via the RS-232C connector. The display operates according to the received command and sends a response message to the PC.
Do not send multiple commands at the same time. Wait until the PC receives the response before sending the next command.

**Interface**

<table>
<thead>
<tr>
<th>Protocol</th>
<th>RS-232C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baud rate</td>
<td>9,600 bps</td>
</tr>
<tr>
<td>Data length</td>
<td>8 bits</td>
</tr>
<tr>
<td>Parity bit</td>
<td>None</td>
</tr>
<tr>
<td>Stop bit</td>
<td>1 bit</td>
</tr>
<tr>
<td>Communication code</td>
<td>ASCII</td>
</tr>
</tbody>
</table>

This LCD display uses RXD, TXD and GND lines for RS-232C control. The reverse type cable (null modem cable) (not include) should be used for RS-232C control.

**Control command diagram**

<table>
<thead>
<tr>
<th>Function (Monitor ID = 1)</th>
<th>Code Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power ON</td>
<td>01 30 41 30 41 30 43 02 43 32 30 33 44 36 30 30 30 31 03 73 0d</td>
</tr>
<tr>
<td>Power OFF</td>
<td>01 30 41 30 41 30 43 02 43 32 30 33 44 36 30 30 30 30 30 34 03 76 0d</td>
</tr>
<tr>
<td>Input Source Select VGA</td>
<td>01 30 41 30 45 30 41 02 30 30 36 30 30 30 31 03 73 0d</td>
</tr>
<tr>
<td>Input Source Select HDMI</td>
<td>01 30 41 30 45 30 41 02 30 30 36 30 30 30 31 03 72 0d</td>
</tr>
<tr>
<td>Input Source Select Component</td>
<td>01 30 41 30 45 30 41 02 30 30 36 30 30 30 30 30 43 03 01 0d</td>
</tr>
<tr>
<td>Input Source Select Composite</td>
<td>01 30 41 30 45 30 41 02 30 30 36 30 30 30 30 30 35 03 77 0d</td>
</tr>
<tr>
<td>Sound Mute ON</td>
<td>01 30 41 30 45 30 41 02 30 30 38 44 30 30 30 30 30 31 03 09 0d</td>
</tr>
<tr>
<td>Sound Mute OFF</td>
<td>01 30 41 30 45 30 41 02 30 30 38 44 30 30 30 30 30 32 03 0a 0d</td>
</tr>
</tbody>
</table>
Before Calling Service

Please make these simple checks before calling service. These tips may save you time and money as charges for receiver installation and adjustments of customer controls are not covered under your warranty.

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>Items To Check And Actions To Follow</th>
</tr>
</thead>
</table>
| No power                               | • Check to see if the display's AC power cord is plugged into the outlet.  
• Unplug the display and after 60 seconds reinsert the plug into the outlet and power on the display.                                                  |
| No picture                             | • Adjust the contrast and brightness settings.                                                                                                                      |
| Good picture but no sound              | • Increase the volume.  
• Confirm that the display is not muted by pressing the Mute button on the remote control.                                                                        |
| Good sound but poor color              | • Adjust the contrast, color and brightness settings.                                                                                                              |
| Poor picture                           | • Poor picture quality may occur when an activated S-VHS camera or camcorder is connected to your display and another peripheral at the same time. Switch off one of the peripherals. |
| Presence of a horizontal dotted line   | • This may be caused by electrical interference (e.g. hair-dryer, nearby neon lights, etc.).  
• Power cycle the equipment by turning off and then turning back on.                                                                                              |
| Display not responding via the remote control | • Determine if the batteries are working and replace batteries if necessary.  
• Clean the remote control sensor lens on the display.  
• If necessary, utilize the buttons located on the side of the display.                                                                                          |
Glossary

HDMI Inputs
High-Definition Multimedia Interface Audio / Video Inputs are located on the receiver. These connectors are used for the input of audio and video signals. Designed to receive higher picture resolution and offer sound connection options.

Menu
An on-screen listing of features shown on the display screen is made available for user adjustments.

Sleep Timer
You can set a time period for which the display will automatically turn off.