Large Format Display

User's Manual

MultiSync V552-TM
MultiSync V801-TM

Please find your model name in the label on the backside of monitor.

Index

Declaration of conformity

FCC Information

1. Use the attached specified cables with this 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 a good quality shielded video signal cable.
   Use of other cables and adapters may cause interference with radio and television reception.
2. This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

If necessary, the user should contact the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet, prepared by the Federal Communications Commission, helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

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GPL/LGPL Software Licenses
The product includes software licensed under GNU General Public License (GPL), GNU Lesser General Public License (LGPL), and others.
For more information on each software, see "readme.pdf" inside the "about GPL&LGPL" folder on the supplied CD-ROM.

Important Information

CAUTION: Please use the power cord provided with this monitor 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.

Plug Type	North America	European Continental	U.K.	Chinese	Japanese
Plug Shape					
Region	U.S.A./Canada	EU (except U.K.)	U.K.	China	Japan
Voltage	120*	230	230	220	100

* When operating the monitor with its AC 125-240V power supply, use a power supply cord that matches the power supply voltage of the AC power outlet being used.

NOTE: This product can only be serviced in the country where it was purchased.

• The intended primary use of this product is as an Information Technical Equipment in an office or domestic environment.

• The product is intended to be connected to a computer and is not intended for the display of television broadcast signals.

Warning
This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

$$CE$$

Safety Precautions, Maintenance & Recommended Use

FOR OPTIMUM PERFORMANCE, PLEASE NOTE THE FOLLOWING WHEN SETTING UP AND USING THE MULTI-FUNCTION MONITOR:

- **DO NOT OPEN THE MONITOR**. There are no user serviceable parts inside and opening or removing covers may expose you to dangerous shock hazards or other risks. Refer all servicing to qualified service personnel.

- Do not spill any liquids into the cabinet or use your monitor near water.

- Do not insert objects of any kind into the cabinet slots, as they may touch dangerous voltage points, which can be harmful or fatal or may cause electric shock, fire or equipment failure.

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

- Do not place this product on a sloping or unstable cart, stand or table, as the monitor may fall, causing serious damage to the monitor.

- Do not mount this product face up, face down or upside down for an extended period of time as it may cause permanent damage to the screen.

- The power supply cord you use must have been approved by and comply with the safety standards of your country. (Type H05VV-F 3G 1mm^2 should be used in Europe).

- In UK, use a BS-approved power cord with molded plug having a black (13A) fuse installed for use with this monitor.

- Do not place any objects onto the monitor and do not use the monitor outdoors.

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

- If glass is broken, handle with care.

- Do not cover vent on monitor.

- Do not use monitor in high temperature, humid, dusty, or oily areas.

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

- Allow adequate ventilation around the monitor, so that heat can properly dissipate. Do not block ventilated openings or place the monitor near a radiator or other heat sources. Do not put anything on top of the monitor.

- The power cable connector is the primary means of detaching the system from the power supply. The monitor should be installed close to a power outlet, which is easily accessible.

- Do not move or mount this product by hanging a rope or wire to the backside handle.
  Do not mount or secure this product by using the backside handle. It may fall and cause personal injury.

- Handle with care when transporting. Save packaging for transporting.

- If using the cooling fan continuously, it is recommended to wipe holes clean a minimum of once a month.

- Please clean the holes of back cabinet to reject dirt and dust at least once a year because of set reliability.

- When using a LAN cable, do not connect to a peripheral device with wiring that might have excessive voltage.

- Do not use monitor under rapid temperature and humidity change condition or avoid cold air from air-conditioning outlet directly, as it may shorten the lifetime of the monitor or cause condensation. If condensation happens, let the monitor stand unplugged until there is no condensation.

- The touch panel glass is not safety glass and is not laminated. As with other glass, the touch panel glass may break into sharp pieces if misused, dropped, or otherwise subjected to a substantial shock. If touch panel glass happens to break, please use care to avoid injury.

- DO NOT tap the monitor with hard or pointed object, such as a pen, or pencil.

Connecting to a TV*

- Cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable.

- The screen of the coaxial cable is intended to be connected to earth in the building installation.

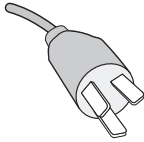Immediately unplug your monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.

- If liquid has been spilled, or objects have fallen into the monitor.

- If the monitor has been exposed to rain or water.

- If the monitor has been dropped or the cabinet damaged.

- If you notice any structural damage such as cracks or unnatural wobbling.

- If the monitor does not operate normally by following operating instructions.

Recommended Use

- For optimum performance, allow 20 minutes for warm-up.

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

- Position the monitor at a 90° angle to windows and other light sources to minimize glare and reflections.

- Clean the LCD monitor surface with a lint-free, non-abrasive cloth. Avoid using any cleaning solution or glass cleaner!

- Adjust the monitor's brightness, contrast and sharpness controls to enhance readability.

- Avoid displaying fixed patterns on the monitor for long periods of time to avoid image persistence (after image effects).

- Get regular eye checkups.

Ergonomics

To realize the maximum ergonomic benefits, we recommend the following:

- Use the preset Size and Position controls with standard signals.

- Use the preset Color Setting.

- Use non-interlaced signals.

- Do not use primary color blue on a dark background, as it is difficult to see and may produce eye fatigue due to insufficient contrast.

Cleaning the Panel

- When the panel is dusty, please gently wipe with a soft cloth.
- Please do not rub the panel with hard material.
- Please do not apply pressure to the surface.
- Please do not use OA cleaner as it will cause deterioration or discolor on the surface.

Cleaning the Cabinet

- Unplug the power supply
- Gently wipe the cabinet with a soft cloth
- To clean the cabinet, dampen the cloth with a neutral detergent and water, wipe the cabinet and follow with a dry cloth.

NOTE: DO NOT clean with benzene thinner, alkaline detergent, alcoholic system detergent, glass cleaner, wax, polish cleaner, soap powder, or insecticide. Rubber or vinyl should not be in contact with the cabinet for an extended period of time. These types of fluids and materials can cause the paint to deteriorate, crack or peel.

* The product you purchased may not have this feature.

Contents

Your new MultiSync monitor box* should contain the following:

- LCD monitor
- Power cord*¹
- Video Signal Cable
- Wireless Remote Control and AA Batteries
- Setup Manual

- CD-ROM
- Clamp x 3 (V552-TM)/x 1 (V801-TM)
- Screw with washer (M4 x 10) x 3 (V552-TM)/x 1 (V801-TM)
- Thumbscrew for optional stand x 2*²
- USB Cable x 1
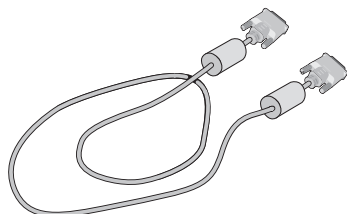
Video Signal Cable
(DVI-D to DVI-D cable)
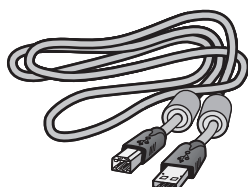
USB Cable
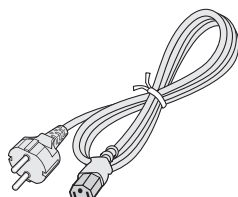
Power Cord*¹
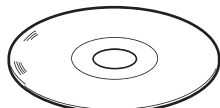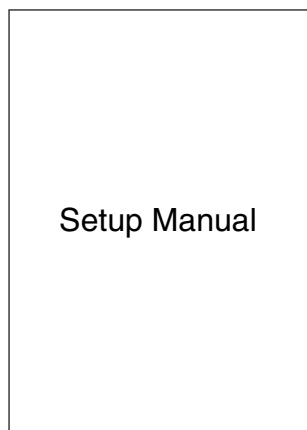
Setup Manual

CD-ROM   Setup Manual

Thumbscrew for
optional stand x 2*²

Screw with washer
(M4 x 10) x 3 (V552-TM)/
x 1 (V801-TM)

Wireless Remote Control
and AA Batteries

Clamp x 3 (V552-TM)/
x 1 (V801-TM)
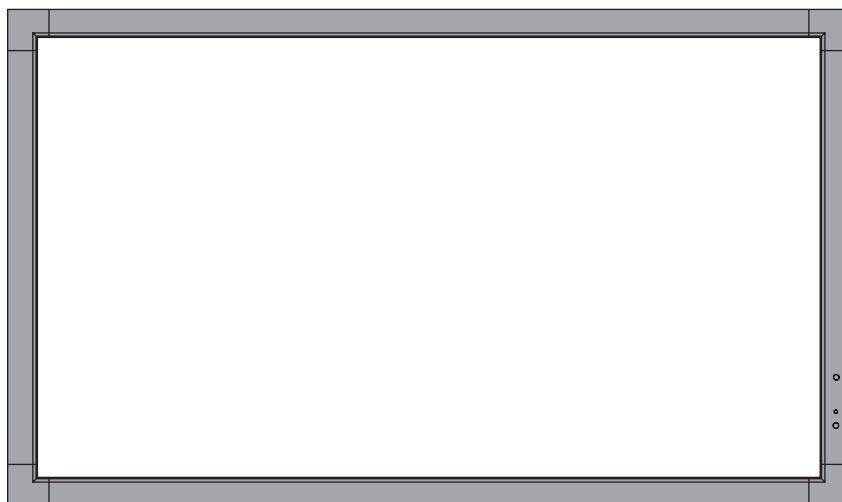
*   Remember to save your original box and packing material to transport or ship the monitor.

*¹   Type and number of power cords included will depend on the where the LCD monitor 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.

*²   V552-TM only.

Installation

This device cannot be used or installed without the Tabletop Stand or other mounting accessory for support. For proper installation it is strongly recommended to use a trained, NEC authorized service person. Failure to follow NEC standard mounting procedures could result in damage to the equipment or injury to the user or installer. Product warranty does not cover damage caused by improper installation. Failure to follow these recommendations could result in voiding the warranty.

Mounting

DO NOT mount the monitor yourself. Please ask dealer. For proper installation it is strongly recommended to use a trained, qualified technician. Please inspect the location where the unit is to be mounted. Mounting on wall or ceiling is the customer's responsibility. Not all walls or ceilings are capable of supporting the weight of the unit. Product warranty does not cover damage caused by improper installation, remodelling, or natural disasters. Failure to comply with these recommendations could result in voiding the warranty.

DO NOT block ventilated openings with mounting accessories or other accessories.

For NEC Qualified Personnel:
To ensure safe installation, use two or more brackets to mount the unit. Mount the unit to at least two points on the installation location.

Please note the following when mounting on wall or ceiling

- When using mounting accessories other than those that are NEC approved, they must comply with the VESA-compatible (FDMlv1) mounting method.

- NEC recommends mounting interfaces that comply with UL1678 standard in North America.

- **V552-TM:** NEC strongly recommends using size M6 screws (10-12 mm + thickness of bracket and washers in length). If using screws longer than 10-12 mm, check the depth of the hole. (Recommended Fasten Force: 470 - 635N•cm) Bracket hole should be under 8.5 mm.

  Unit No gap Mounting Bracket
  No thread
  4.5 mm (V552-TM)
  5 mm (V801-TM)
  under φ 8.5 mm (V552-TM)
  under φ 10.0 mm (V801-TM)
  Washers
  Screw
  10-12 mm (V552-TM)
  15-17 mm (V801-TM)
  Thickness of bracket and washers

- **V801-TM:** NEC strongly recommends using size M8 screws (15-17 mm + thickness of bracket in length). If using screws longer than 15-17 mm, check the depth of the hole. (Recommended Fasten Force: 1125 - 1375N•cm) Bracket hole should be under φ10.0 mm.

- Prior to mounting, inspect the installation location to insure that it is strong enough to support the weight of the unit so that the unit will be safe from harm.

- Refer to the instructions included with the mounting equipment for detailed information.

- Make sure there is no gap between the monitor and the bracket.

- When used in a video wall configuration for a longer time, slight expansion of the displays may happen due to temperature changes. Due to this it is recommended that over one millimeter gap is kept between adjacent display edges.
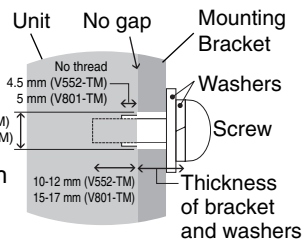
Orientation

- When using the display in the portrait position, the monitor should be rotated clockwise so that the left side is moved to the top and the LED indicator light is on the bottom. This will allow for proper ventilation and will extend the lifetime of the monitor. Improper ventilation may shorten the lifetime of the monitor.

LED Indicator
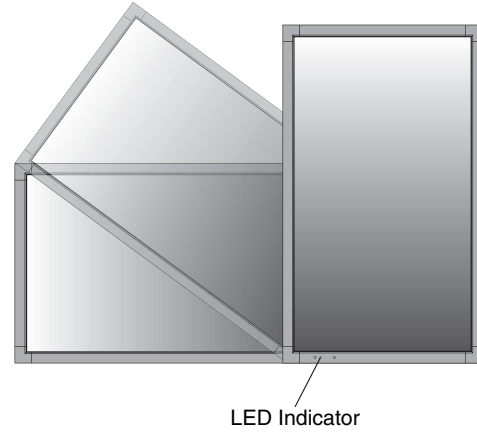
V801-TM only:
1. Changing handles position.

- When using the display in the portrait position, the handles' position could be changed.

  For landscape position:
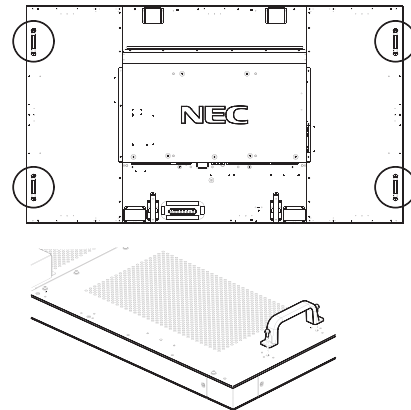
  For portrait position:
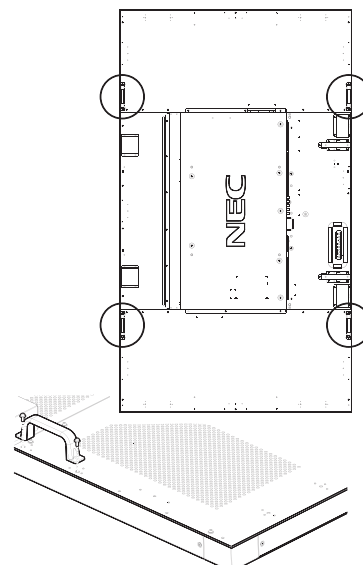
2. Changing NEC logo plate position.

Removing the logo plate: Insert a thin stick (less than 2 mm diameter) into the hole in the bottom of logo plate and remove the logo plate by pushing it up from the bottom.

Attaching the logo plate: Hook the part (1) of logo plate into the bezel and press in.
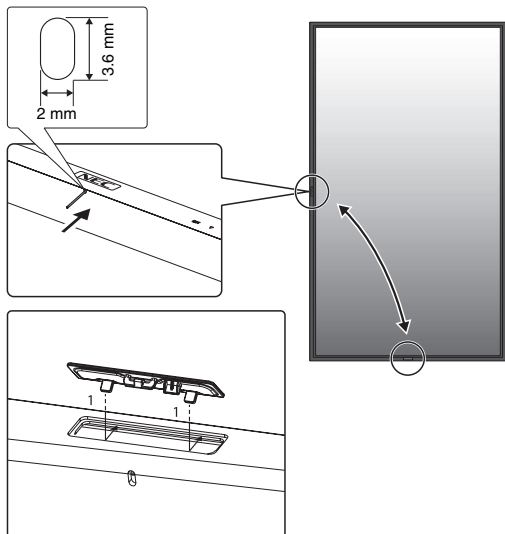
Mounting location
- The ceiling and wall must be strong enough to support the monitor and mounting accessories.
- DO NOT install in locations where a door or gate can hit the unit.
- DO NOT install in areas where the unit will be subjected to strong vibrations and dust.
- DO NOT install near where the main power supply enters the building.
- Do not install in where people can easily grab and hang onto the unit or the mounting apparatus.
- When mounting in a recessed area, as in a wall, leave at least 4 inches (100 mm) of space between the monitor and the wall for proper ventilation.
- Allow adequate ventilation or provide air conditioning around the monitor, so that heat can properly dissipate away from the unit and mounting apparatus.

Mounting on ceiling
- Ensure that the ceiling is sturdy enough to support the weight of the unit and the mounting apparatus over time, against earthquakes, unexpected vibrations, and other external forces.
- Be sure the unit is mounted to a solid structure within the ceiling, such as a support beam. Secure the monitor using bolts, spring lock washers, washer and nut.
- DO NOT mount to areas that have no supporting internal structure. DO NOT use wood screws or anchor screws for mounting. DO NOT mount the unit to trim or to hanging fixtures.

Maintenance
- Periodically check for loose screws, gaps, distortions, or other problems that may occur with the mounting apparatus. If a problem is detected, please refer to qualified personnel for service.
- Regularly check the mounting location for signs of damage or weakness that may occur over time.

Attaching Mounting Accessories

The monitor is designed for use with the VESA mounting system.

Attach eyebolts (not included) for mounting (V801-TM only)

This model is equipped with attachable eyebolts to aid in mounting.

- Screw the eyebolts into eyebolt holes as shown in the picture.
- Be sure eyebolts are secure.
- In order to move the monitor into position, use a lifting device attached to the eyebolts.

DO NOT mount the monitor using only the eyebolts.

Eyebolt (M10) (not included)

Eyebolt Hole
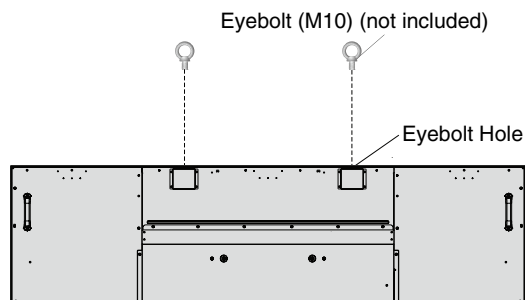
1. Attach Mounting Accessories

Be careful to avoid tipping monitor when attaching accessories.

V552-TM:

300 mm

300 mm

VESA Mounting Interface (M6)

V801-TM:

VESA Mounting Interface (M8)

400 mm
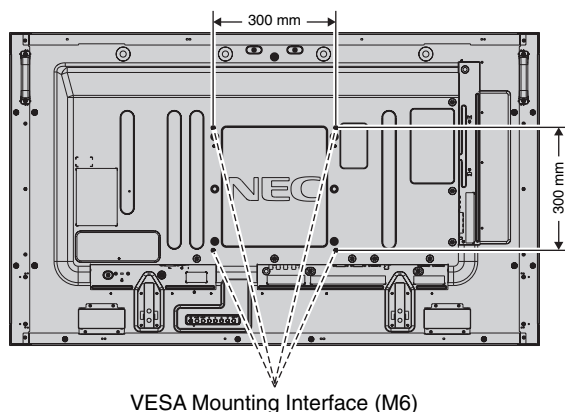
400 mm
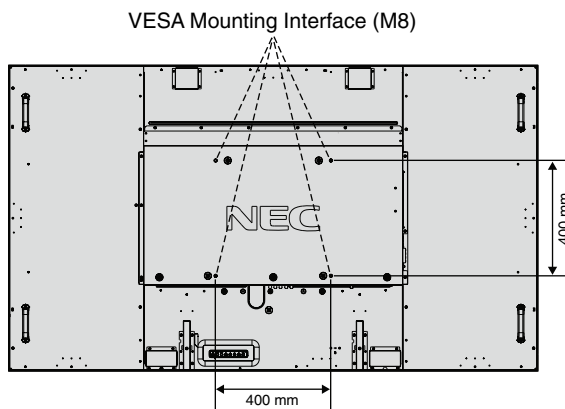
Mounting accessories can be attached with the monitor in the face down position. To avoid damaging the screen face, place the protective sheet on the table underneath the LCD. The protective sheet was wrapped around the LCD in the original packaging. Make sure there is nothing on the table that can damage the monitor.

When using mounting accessories other than NEC compliant and approved, they must comply with the VESA-compatible mounting method.

NOTE: • Do not leave the monitor in the face-up or face-down position for more than one hour as this may result in a negative effect on the screen's performance.
• Prior to installation, be sure to place the monitor on a flat area with adequate space.

2. Using Option Board

1. Turn off the main power switch.

2. Remove the attached slot cover by unscrewing the installed screws (**Figure 1**).

3. Insert option board in to the monitor.

NOTE: Please contact your supplier for available option boards.
Do not apply excessive force to manipulate the optional board before fixing it with screws.
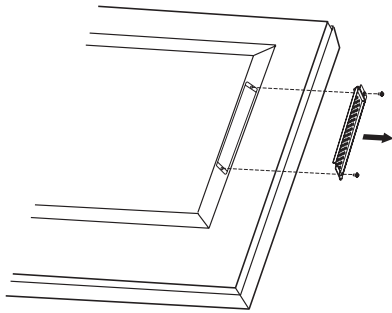
Figure 1

3. Installing and removing optional table top stand

CAUTION: Installing and removing the stand must be done by two or more people for V552-TM, by four or more people for V801-TM.

To install, follow those instructions included with the stand or mounting apparatus. Use only those devices recommended by the manufacturer.

NOTE: For V552-TM, use ONLY thumbscrews which are included in the monitor.
For V801-TM, use ONLY the thumbscrews which are included with the optional table top stand.

When installing the LCD monitor stand, handle the unit with care to avoid pinching your fingers.
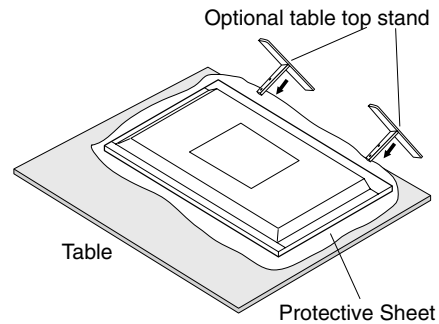
NOTE: Install the stand in the direction of the arrow which is imprinted on the surface of the stand.
Use the ST4620 for V552-TM, ST-801 for V801-TM.

NOTE: V552-TM only: DO NOT use this monitor on the floor with the table top stand. Please use this monitor on a table or with a mounting accessory for support.

4. Ventilation Requirements

When mounting in an enclosed space or recessed area, leave adequate room between the monitor and the enclosure to allow heat to disperse, as shown below.
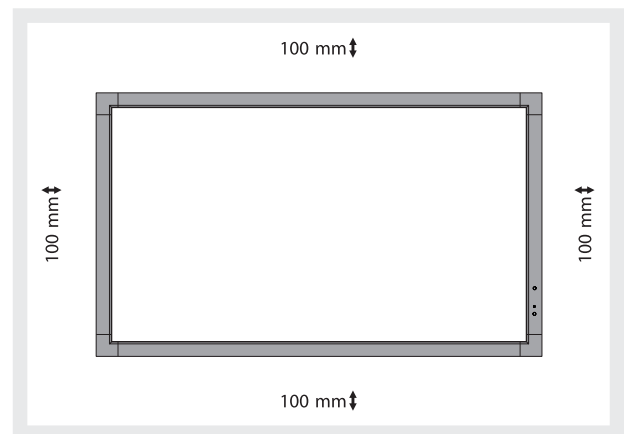
Allow adequate ventilation or provide air conditioning around the monitor, so that heat can properly dissipate away from the unit and mounting apparatus; especially when you use monitors in multiple screen.

NOTE: The sound quality of the internal speakers will differ according to the acoustics of the room.

5. Prevent Tipping

When using the display with the optional table top stand fasten the LCD to a wall using a cord or chain that can support the weight of the monitor in order to prevent the monitor from falling. Fasten the cord or chain to the monitor using the clamps and screws which are included with the optional table top stand.

V552-TM:
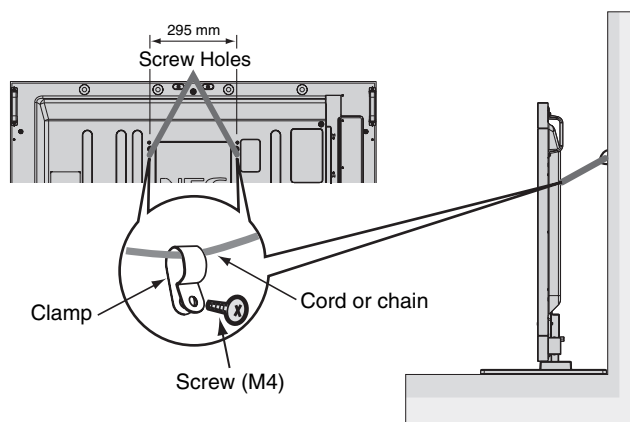
V801-TM:
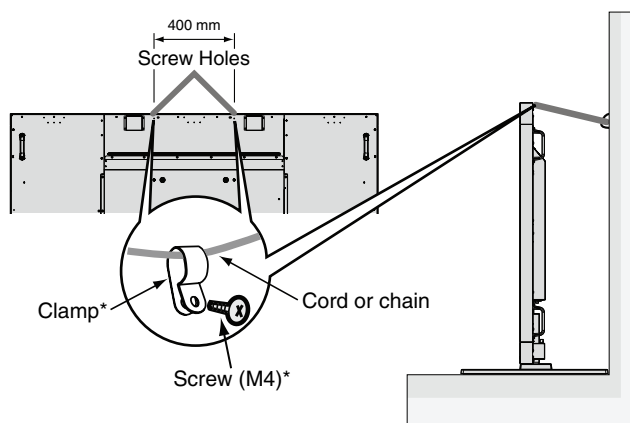
*: included in option stand.

Before attaching the LCD monitor to the wall, make sure that the wall can support the weight of the monitor.

Be sure to remove the cord or chain from the wall before moving the LCD.

When the monitor is moved after the stands are attached, do not drag the monitor with the stands in contact with the floor. It may cause damage to the touch panel function.

Parts Name and Functions

Control Panel
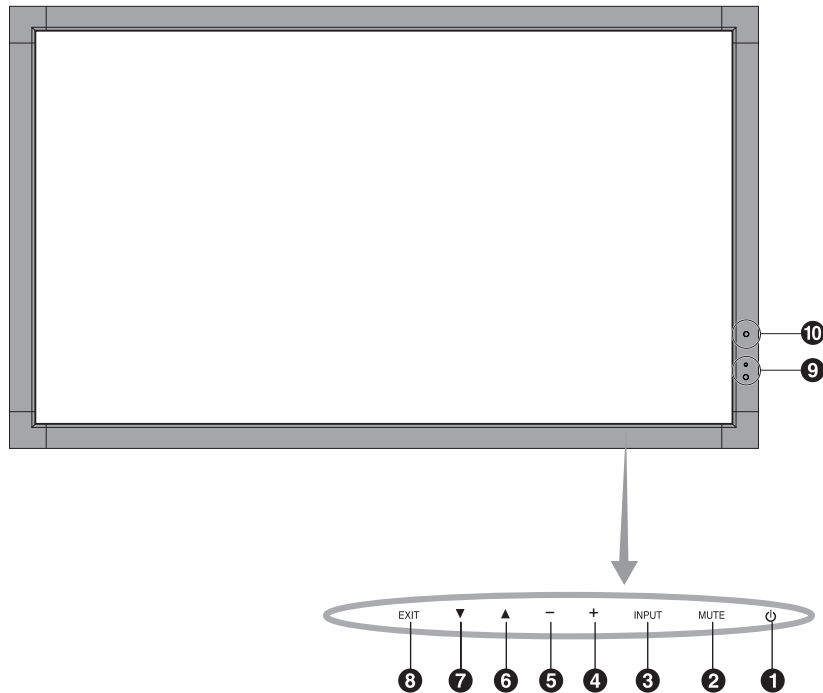
① POWER button

Switches the power ON/OFF. See also page 19.

② MUTE button

Switches the audio mute ON/OFF.

③ INPUT button

Acts as SET button within OSD menu. (Toggle switches between [DVI], [DPORT], [VGA], [RGB/HV], [HDMI], [DVD/HD], [SCART], [VIDEO1], [VIDEO2] or [S-VIDEO]). These are available input only, shown as their factory preset name.

④ PLUS button

Acts as (+) button to increase the adjustment with OSD menu. Increases the audio output level when the OSD menu is turned off.

⑤ MINUS button

Acts as (-) button to decrease the adjustment with OSD menu. Decreases the audio output level when the OSD menu is turned off.

⑥ UP button

Activates the OSD menu when the OSD menu is turned-off. Acts as ▲ button to move the highlighted area up to select adjustment items within OSD menu.

⑦ DOWN button

Activates the OSD menu when the OSD menu is turned-off. Acts as ▼ button to move the highlighted area down to select adjustment items within OSD menu.

⑧ EXIT button

Activates the OSD menu when the OSD menu is turned-off. Acts as EXIT button within the OSD to move to previous menu.

⑨ Remote control sensor and Power Indicator

Receives the signal from the remote control (when using the wireless remote control). See also page 14.
Glows green when the LCD monitor is in active mode*.
Glows red when the LCD is in POWER OFF mode.
Glows amber when the monitor is in Power Save Mode.
Green and Amber blink alternately while in Power Standby mode with the "SCHEDULE SETTINGS" function enabled.
When a component failure is detected within the monitor, the indicator will blink red.
* If "OFF" is selected in "POWER INDICATOR" (see page 27), LED will not light when the LCD monitor is in active mode.

⑩ AMBIENT LIGHT SENSOR

Detects the level of ambient light, allowing the monitor to make automatic adjustments to the backlight setting, resulting in a more comfortable viewing experience. Do not cover this sensor. See page 21.

Control Key Lock Mode

This control completely locks out access to all Control Key functions. To activate the control key lock function, press both ▼ and ▲ and hold down simultaneously for more than 3 seconds. To resume user mode, press both ▼ and ▲ and hold simultaneously for more than 3 seconds.

Terminal Panel
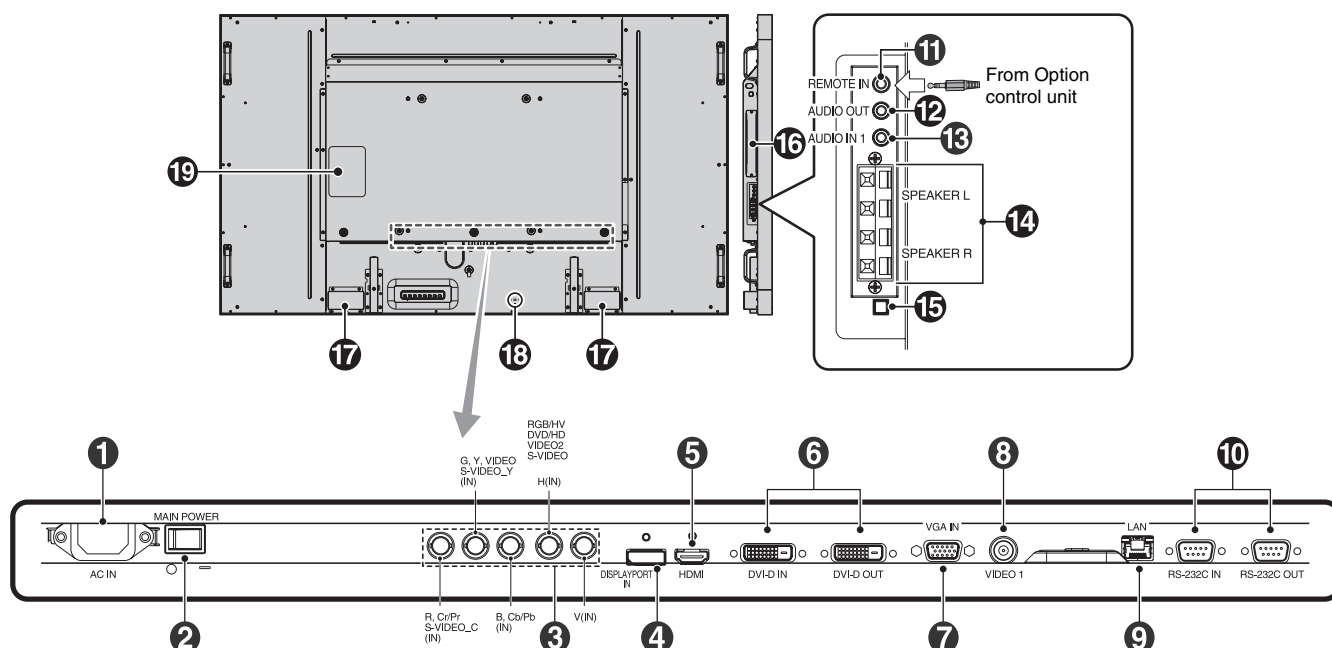
❶ AC IN connector

Connects with the supplied power cord.

❷ Main Power Switch

On/Off switch to turn main power ON/OFF.

❸ RGB/HV IN [R, G, B, H, V] (BNC)*

To input analog RGB signals or signals from other RGB equipment.
This is also to connect equipment such as a DVD player, HDTV device and Set-Top-Box. Sync-on-Green signal can be connected to the G connector.
This input can be used with an RGB, DVD/HD or Video source. Please select signal type in TERMINAL SETTING.

❹ DISPLAYPORT connector

To input DisplayPort signals.

❺ HDMI connector

To input digital HDMI signals.

❻ DVI connector (DVI-D)

IN connector: To input digital RGB signals from a computer or HDTV device having a digital RGB output.
* This connector does not support analog input.
OUT connector: To output the DVI signal from DVI IN or HDMI with DVI signal input. (DVI signal only, HDMI signal is not thorough out).

❼ VGA IN (mini D-Sub 15 pin)

To input analog RGB signals from a personal computer or from other RGB equipment.

❽ VIDEO1 IN connector (BNC)

To input a composite video signal.

❾ LAN port (RJ-45)

LAN connection. See page 36.

❿ RS-232C (D-Sub 9 pin)

IN connector: Connect RS-232C input from external equipment such as a PC in order to control RS-232C functions.
OUT connector: Connect RS-232C output. To connect multiple MultiSync monitors via RS-232C daisy Chain.

⓫ REMOTE IN (Black)

Use the optional wired remote control by connecting it to your monitor.

NOTE: Do not use this connector unless specified.
When you use Remote IN, IR CONTROL in OSD menu should be NORMAL.

⓬ AUDIO OUT (Blue)

To output the audio signal from the AUDIO IN 1, DPORT and HDMI to an external device (stereo receiver, amplifier, etc.).
This connector does not support headphone terminal.

⓭ AUDIO IN 1 (Blue)

To input audio signal from external equipment such as a computer, VCR or DVD player.

⓮ EXTERNAL SPEAKER TERMINAL

To output the audio signal from AUDIO 1, DPORT and HDMI.
Red terminal is plus (+).
Black terminal is minus (-).
Note: This speaker terminal is for 15W + 15W (8 ohm) speaker.

⓯ Internal/External speaker switch

Switch to turn internal speaker/external speaker.

⌷ : Internal speaker   ⌷ : External speaker.
NOTE: Please power off the monitor when you use Internal/External speaker switch.

⓰ Option board slot

Slot 2 type accessories are available. Please contact your supplier for detailed information.

NOTE: Please contact your supplier for available option board.

⓱ Internal speaker

⓲ Kensington Lock

For security and theft prevention.

* BNC input signal
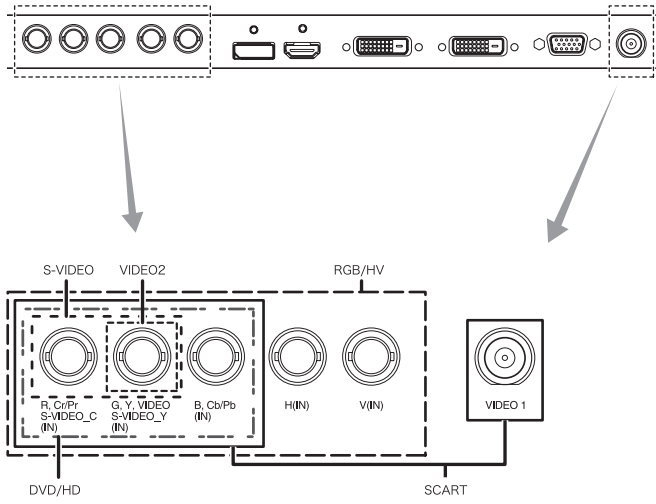
⓳ Rating Label

Wireless Remote Control

REMOTE CONTROLLER RU-M117
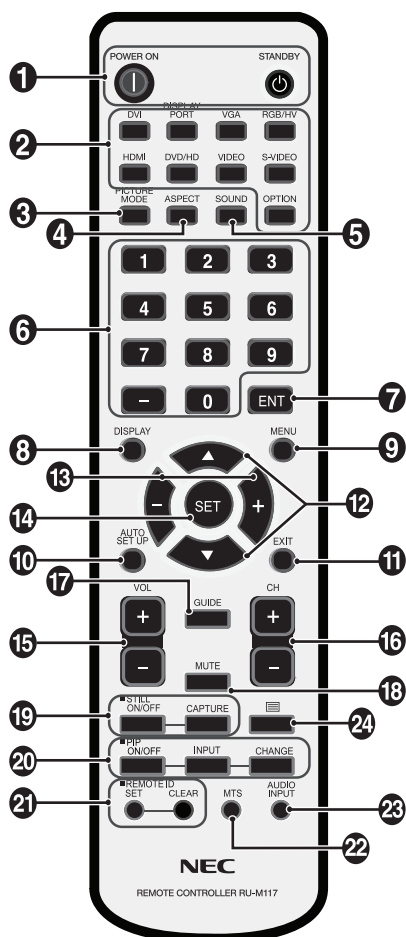
❶ POWER button

Switches the power on/standby.

❷ INPUT button

Selects input signal.
    DVI: DVI
    DISPLAYPORT: DPORT
    VGA: VGA
    RGB/HV: RGB/HV
    HDMI: HDMI
    DVD/HD: DVD/HD, SCART
    VIDEO: VIDEO1, VIDEO2
    S-VIDEO: S-VIDEO
    OPTION: Depends on your connection

❸ PICTURE MODE button

Selects picture mode, [HIGHBRIGHT], [STANDARD],
[sRGB], [CINEMA], [AMBIENT1], [AMBIENT2]. See page 21.

    HIGHBRIGHT: for moving images such as DVD.
    STANDARD: for images.
    sRGB: for text based images.
    CINEMA: for movies.
    AMBIENT1 and AMBIENT2: activate auto dimming
    function. See page 21.

❹ ASPECT button

Selects picture aspect, [FULL], [WIDE], [DYNAMIC], [1:1],
[ZOOM] and [NORMAL]. See page 20.

❺ SOUND button

Artificial surround sound for internal/external speakers.
Audio out is disabled when surround is set to ON.

❻ KEYPAD

Press buttons to set and change passwords, change channel
and set REMOTE ID.

❼ ENT button*²

❽ DISPLAY button

Turns on/off the information OSD. See page 21.

❾ MENU button

Turns on/off the menu mode.

❿ AUTO SETUP button

Enters auto setup menu. See page 23.

⓫ EXIT button

Returns to previous menu within OSD menu.

⓬ UP/DOWN button

Acts as ▲ ▼ button to move the highlighted area up or down
to select adjustment items within OSD menu.
Small screen which adjusted "PIP" mode moves up or down.

⓭ MINUS/PLUS (-/+) button

Increases or decreases the adjustment level within OSD
menu settings.
Small screen which adjusted "PIP" mode moves left or right.

⓮ SET button

Makes selection.

⓯ VOLUME UP/DOWN button

Increases or decreases audio output level.

⓰ CH UP/DOWN button*²

⓱ GUIDE button*²

⓲ MUTE button

Turns on/off mute function.

⓳ STILL button

ON/OFF button: Activates/deactivates still picture mode.
STILL CAPTURE button: Captures still picture.

⑳ PIP (Picture In Picture) button

ON/OFF button: Toggle switches between PIP, POP, PICTURE BY PICTURE-ASPECT and PICTURE BY PICTURE-FULL. See page 25.
INPUT button: Selects the "picture in picture" input signal.
CHANGE button: Replaces to the main picture and sub picture.

		Sub picture										
		DVI	DPORT	VGA	RGB/HV	HDMI	DVD/HD	SCART	VIDEO1	VIDEO2	S-VIDEO	OPTION
Main picture	DVI	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No
	DPORT	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	VGA	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	RGB/HV	Yes	Yes	No	No	Yes	No	No	Yes	No	No	Yes
	HDMI	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No
	DVD/HD	Yes	Yes	Yes	No	Yes	No	No	Yes	No	No	Yes
	SCART	Yes	Yes	Yes	No	Yes	No	No	No	No	No	Yes
	VIDEO1	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes
	VIDEO2	Yes	Yes	Yes	No	Yes	No	No	No	No	No	Yes
	S-VIDEO	Yes	Yes	Yes	No	Yes	No	No	No	No	No	Yes
	OPTION	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No

㉑ REMOTE ID button

Activates REMOTE ID function.

㉒ MTS button*²

㉓ AUDIO INPUT button

Selects audio input source [IN1], [DPORT], [HDMI], [OPTION]*¹.

㉔ ▤ button

Activates closed captioning.
Note: VIDEO1, VIDEO2, S-VIDEO inputs only.

*1: The product you purchased may not have this feature.

*2: This button's action depends on which option board you use. Refer to the option board's manual for further information.

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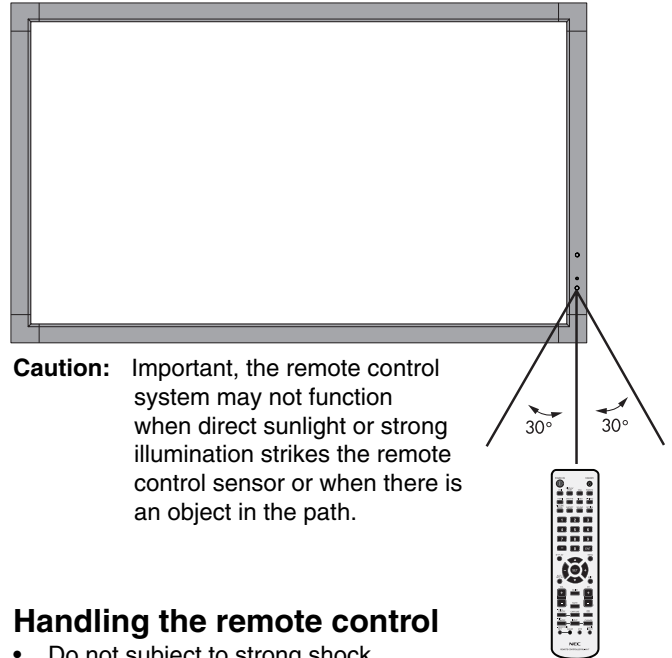
Caution: Important, the remote control system may not function when direct sunlight or strong illumination strikes the remote control sensor or when there is an object in the path.

Handling the remote control
• Do not subject to strong shock.
• Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately.
• Avoid exposure to heat and steam.
• Other than to install the batteries, do not open the remote control.

Setup

1. Determine the installation location

CAUTION: Installing your LCD monitor must be done by a qualified technician. Contact your dealer for more information.

CAUTION: MOVING OR INSTALLING THE LCD MONITOR MUST BE DONE BY TWO OR MORE PEOPLE FOR V552-TM, BY FOUR OR MORE PEOPLE FOR V801-TM. Failure to follow this caution may result in injury if the LCD monitor falls.

CAUTION: Do not mount or operate the monitor upside down, face up or face down.

CAUTION: This LCD has a temperature sensor and cooling fans, including a fan for option board.
If the LCD becomes too hot, the cooling fans will turn on automatically.
The fan of option board is active although the temperature is lower than normal operating temperature for cooling option board. If the LCD becomes overheated while the cooling fan is running, a "Caution" warning will appear. If the "Caution" warning appears, discontinue use and allow the unit to cool. Using the cooling fan will reduce the likelihood of early circuit failure and may help reduce image degradation and "Image Persistance".
If the LCD is used in an enclosed area or if the LCD panel is covered with a protective screen, please check the inside temperature of the monitor by using the "HEAT STATUS" control in the OSD (see page 28). If the temperature is higher than the normal operating temperature, please turn the cooling fan to ON within the FAN CONTROL menu within the OSD (see page 28).

IMPORTANT: Lay the protective sheet, which was wrapped around the LCD monitor when it was packaged, beneath the LCD monitor so as not to scratch the panel.

2. Install the remote control batteries

The remote control is powered by two 1.5V AA batteries.
To install or replace batteries:
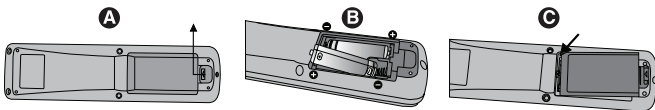
A. Press and slide to open the cover.

B. Align the batteries according to the (+) and (–) indications inside the case.

C. Replace the cover.

CAUTION: Incorrect usage of batteries can result in leaks or bursting.

NEC recommends the following battery use:

- Place "AA" size batteries matching the (+) and (-) signs on each battery to the (+) and (-) signs of the battery compartment.
- Do not mix battery brands.
- Do not combine new and old batteries. This can shorten battery life or cause liquid leakage of batteries.
- Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
- Do not touch exposed battery acid, it may injure skin.

NOTE: If you do not intend to use the Remote Control for a long period of time, remove the batteries.

3. Connect external equipment (See pages 17 and 18)

- To protect the external equipment; turn off the main power before making connections.
- Refer to your equipment user manual for further information.

NOTE: Do not connect/disconnect cables when turning on the monitor or other external equipment as this may result in a loss of the monitor image.

4. Connect the supplied power cord

- The equipment should be installed close to an easily accessible power outlet.
- Please fasten power cord to the LCD monitor by attaching the screw and clamp.
- Fully insert the prongs into the power outlet socket. A loose connection may cause image degradation.

NOTE: Please refer to the "Safety Precautions and Maintenance" section of this manual for proper selection of AC power cord.

V552-TM:
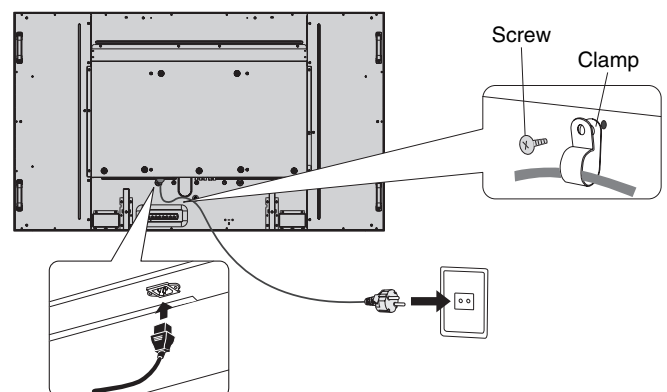
V801-TM:
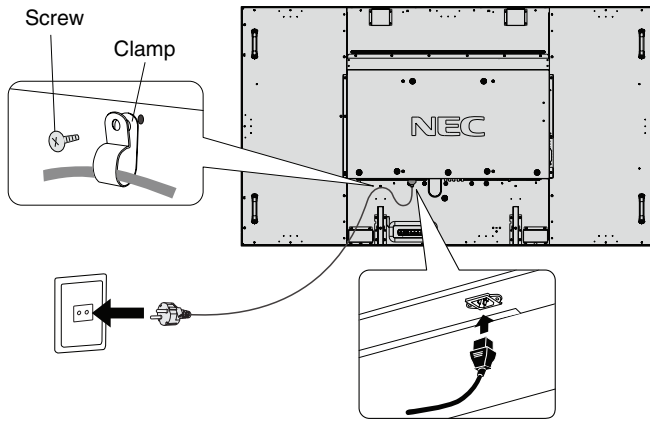
5. Switch on the power of all the attached external equipment

When connected with a computer, switch on the power of the computer first.

6. Operate the attached external equipment

Display the signal from the desired input source.

7. Adjust the sound

Make volume adjustments when required.

8. Adjust the screen (See pages 23 and 24)

Make adjustments of the screen display position when necessary.

9. Adjust the image (See page 23)

Make adjustments such as backlight or contrast when required.

10. Recommended Adjustments

To reduce the risk of the "Image Persistence", please adjust the following items based on the application being used:
"SCREEN SAVER", "SIDE BORDER COLOR" (see page 28)
"DATE & TIME" (see page 25), "SCHEDULE SETTINGS"
(see page 24).
It is recommended that the "FAN CONTROL" setting
(see page 28) be turned to ON also.

Connections

NOTE: Do not connect/disconnect cables when turning on the monitor or other external equipment as this may result in a loss of the monitor image.

NOTE: Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor turns down the sound.

Before making connections:
* First turn off the power of all the attached equipment and make connections.
* Refer to the user manual included with each separate piece of equipment.

Wiring Diagram

Solid lines = video signal
Dotted lines = audio signal
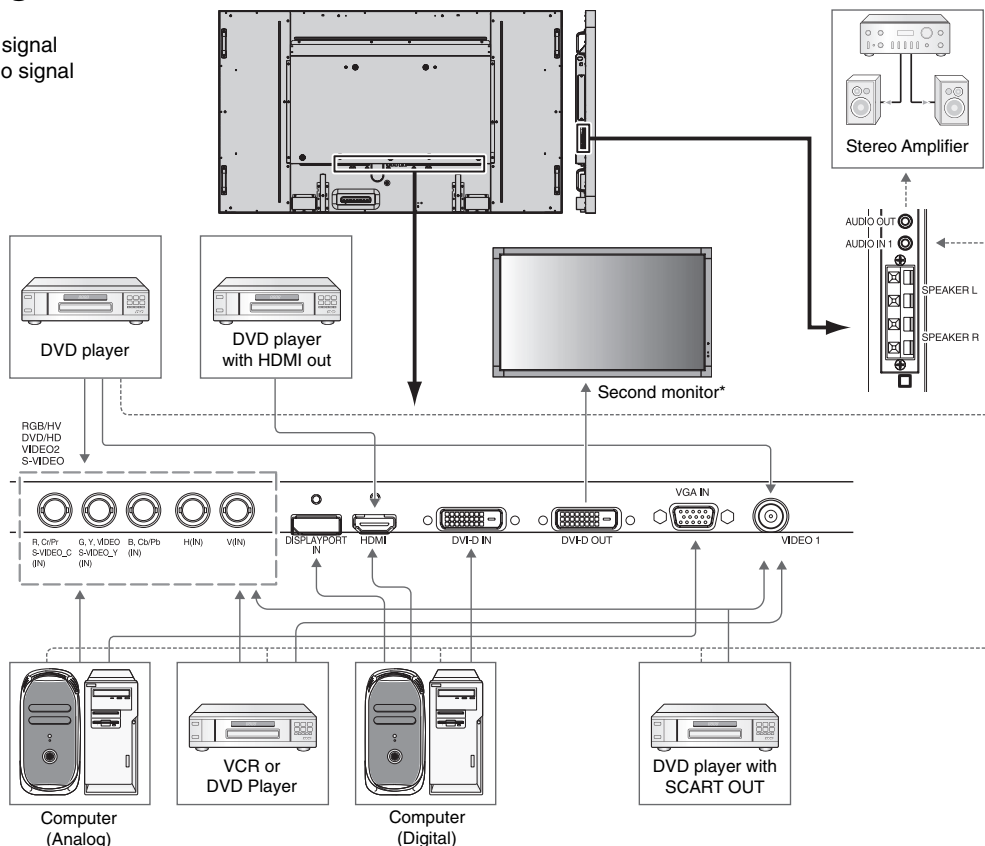
*: Multiple monitors that are daisy-chained have a limit to the connectable monitors.

Connected equipment	Connecting terminal	Setting in Terminal Mode	Input signal name	Connecting Audio terminal	Input button in remote control
AV	DVI (DVI-D)	DVI MODE: DVI-HD	DVI	AUDIO IN1	DVI
	HDMI	RAW/EXPAND*1	HDMI	HDMI	HDMI
	5BNC+VIDEO 1	BNC MODE: SCART	SCART	AUDIO IN1	DVD/HD
	VIDEO1 (BNC)	-	VIDEO1	AUDIO IN1	VIDEO
	S-VIDEO (5BNC)	BNC MODE: S-VIDEO	S-VIDEO	AUDIO IN1	S-VIDEO
	VIDEO2 (5BNC)	BNC MODE: VIDEO	VIDEO2	AUDIO IN1	VIDEO
	DVD/HD (5BNC)	BNC MODE: COMPONENT	DVD/HD	AUDIO IN1	DVD/HD
PC	VGA (D-Sub)	-	VGA	AUDIO IN1	VGA
	DVI (DVI-D)	DVI MODE: DVI-PC	DVI	AUDIO IN1	DVI
	RGB/HV (5BNC)	BNC MODE: RGB	RGB/HV	AUDIO IN1	RGB/HV
	DisplayPort	-	DPORT	DPORT	DISPLAYPORT
	HDMI	RAW/EXPAND*1	HDMI	HDMI	HDMI

*1: depend on signal type.

Connecting a Personal Computer

Connecting your computer to your LCD monitor will enable you to display your computer's screen image.
Some display cards with a pixel clock over 162MHz may not display an image correctly.
Your LCD monitor displays proper image by adjusting the factory preset timing signal automatically.

<Typical factory preset signal timing>

Resolution	Scanning frequency		Remarks
	Horizontal	Vertical	
640 x 480	31.5 kHz	60 Hz	
800 x 600	37.9 kHz	60 Hz	
1024 x 768	48.4 kHz	60 Hz	
1280 x 768	48 kHz	60 Hz	
1360 x 768	48 kHz	60 Hz	
1280 x 1024	64 kHz	60 Hz	
1600 x 1200	75 kHz	60 Hz	Compressed image
1920 x 1080	67.5 kHz	60 Hz	Recommended resolution

- If you use with a Macintosh PowerBook, set "Mirroring" to Off on your PowerBook.

  Refer to your Macintosh's owner's manual for more information about your computer's video output requirements and any special identification or configuration your monitor's image and monitor may require.

- Input TMDS signals conforming to DVI standards.

- To maintain display quality, use a cable that conforms to DVI standards.

Connecting a DVD Player or Computer with HDMI out

- Please use an HDMI cable with HDMI logo.

- It may take a moment for the signal to appear.

- Some display cards or drivers may not display an image correctly.

Connecting a Computer with DisplayPort

- Please use DisplayPort cable with DisplayPort compliance logo.

- It may take a moment for the signal to appear.

- Please note that DisplayPort connector does not supply power to the connected component.

- Please note that when connecting a DisplayPort cable to a component with a signal conversion adapter, an image may not appear.

- Select DisplayPort cables feature a locking function. When removing this cable, hold down the top button to release the lock.

For using Touch Panel

1. Turn off the monitor.
2. Install the equipment.*1
   - Using slot 2 type PC:
     Connect the slot 2 type PC into the option board slot.
     NOTE: Please refer to the slot 2 type PC's manual for connection.
     NOTE: When you set option board accessory other than slot 2 type PC, touch function may not work.

   - Using external computer:
     Connect the B type connector to the USB upstream port on the left back side of the monitor and the A type connector to the downstream port on the external computer (Figure 1).
3. Turn on the monitor.

*1: Please contact your NEC customer support for more detailed information.
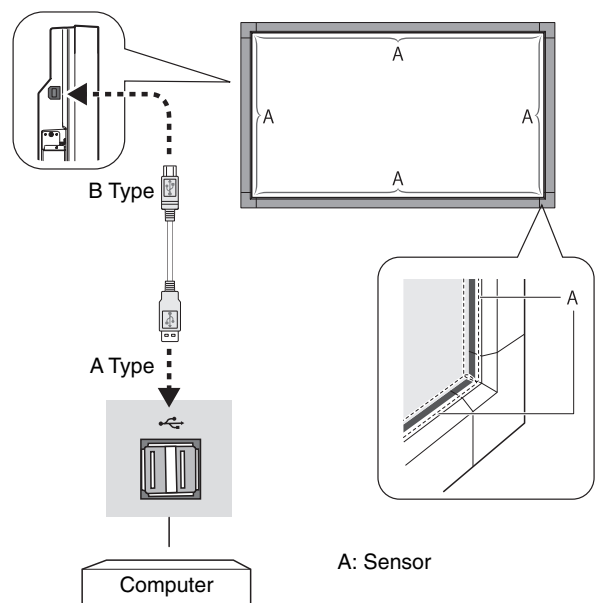
Monitor Setting

Select the input signal.
   - Using slot 2 type PC: Select [OPTION]
   - Using external computer: Select the input signal which is supplied by the PC connected to USB connector.

NOTE: Touch function does not work in PIP mode.

B Type

A Type

Computer

A: Sensor

Figure 1

Basic Operation

Power ON and OFF Modes

The LCD monitor power indicator will turn green while powered on and will turn red or amber while powered off.

NOTE: The Main Power Switch must be in the ON position in order to power up the monitor using the remote control or the Power Button.

OFF ON Main Power Switch

Power Button

Using the remote control

30°   30°

POWER ON Button

English-19
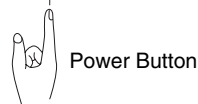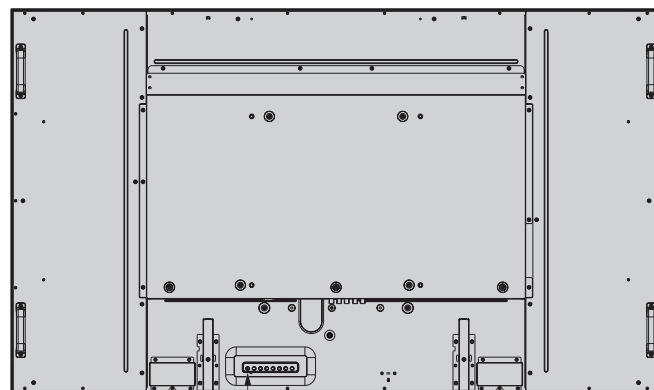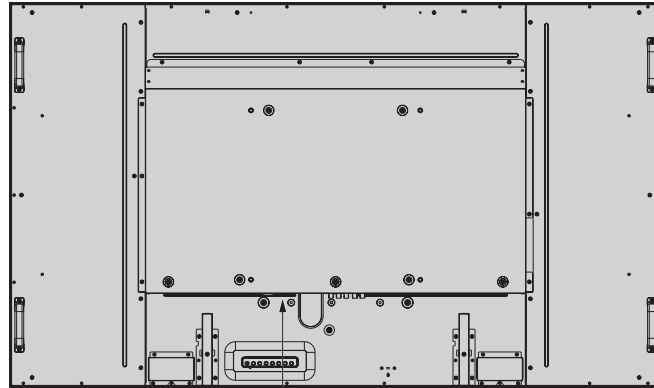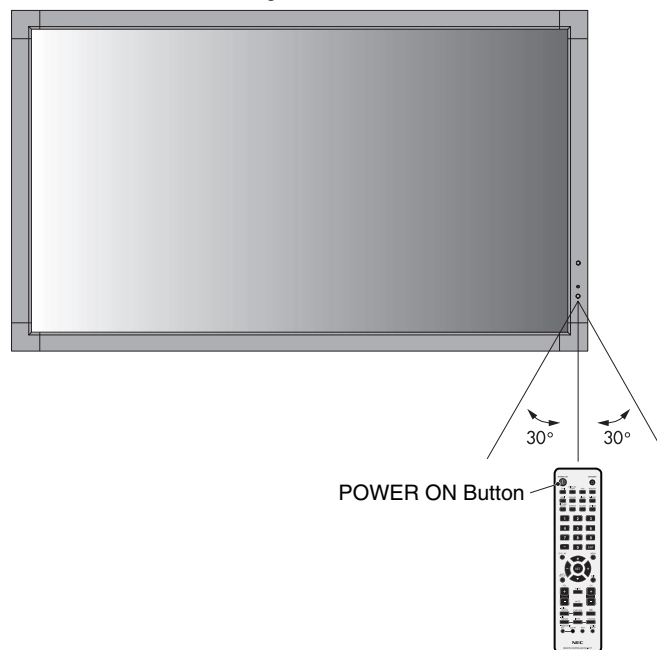
Power Indicator

Mode	Status Indicator Light
Power ON	Green*1
Power OFF and Power Save "AUTO STANDBY" Power consumption under 0.5 W*2	Red
Power Save "POWER SAVE" Power consumption under 2 W	Amber
Power Standby when "SCHEDULE SETTINGS" enabled	Green and Amber blink alternately
Diagnosis (Detecting failure)	Red Blinking (See **Troubleshooting** page 42)

*1 If "OFF" is selected in POWER INDICATOR (page 27), the LED will not light when the LCD monitor is in active mode.
*2 Without any option, with factory settings, VGA input only.

Using Power Management

The LCD monitor follows the VESA approved DPM Display Power Management function.
The power management function is an energy saving function that automatically reduces the power consumption of the display when the keyboard or the mouse has not been used for a fixed period.
The power management feature on your new display has been set to the "AUTO STANDBY" mode. This allows your display to enter a Power Saving Mode when no signal is applied. This could potentially increase the life and decrease the power consumption of the display.

NOTE: Depending on the PC and display card used, this function may not operate.

NOTE: When POWER SAVE is ON (see page 28), the monitor goes into power management mode, it takes about several seconds for HDMI and about 10 minutes for DVD/HD, SCART, VIDEO1, VIDEO2 and S-VIDEO.

Selecting a video source

To view a video source:

Use the input button to set [VIDEO1], [VIDEO2], [S-VIDEO].

Use the COLOR SYSTEM menu to set [AUTO], [NTSC], [PAL], [SECAM], [PAL60], [4.43NTSC], according to your video format.

Picture Aspect

DVI, VGA, RGB/HV, DPORT
FULL → 1:1 → ZOOM → NORMAL

HDMI, DVD/HD, SCART, VIDEO1, VIDEO2, S-VIDEO
FULL → WIDE → DYNAMIC → 1:1 → ZOOM → NORMAL

Aspect ratio of image	Unchanged view*3	Recommended selection for picture aspect*3
4:3		NORMAL
		DYNAMIC
Squeeze		FULL
Letterbox		WIDE

*3 Grey areas indicate unused portions of the screen.

NORMAL: Displays the aspect ratio the same as it is sent from the source.

FULL: Fills entire screen.

WIDE: Expands a 16:9 letter box signal to fill entire screen.

DYNAMIC: Expands a 4:3 pictures to fill the entire screen with non-linearity. Some of the outside image area will be cut off due to expansion.

1:1: Displays the image in a 1 by 1 pixel format.

ZOOM
The image can be expanded/reduced beyond the active display area.
The image which is outside of active display area is not shown.

ZOOM

ZOOM
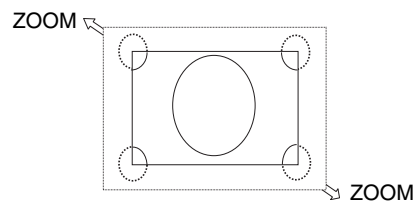
Information OSD

The Information OSD provides information such as: Monitor ID, Input Source, Picture Size, etc.
Press the DISPLAY button on the remote to bring up the Information OSD.

❶ Monitor ID:1
❷ Target ID:5

DVI ❸
AUDIO:IN1 ❹
ASPECT:FULL ❺
1024 X 768 ❻
48KHz/60Hz

SUB:VIDEO
NTSC ❼

❶ ID number assigned to current monitor*¹

❷ ID number assigned monitor to be controlled via RS-232C*²

❸ Input Name

❹ Audio input mode

❺ Picture aspect

❻ Input Signal Information

❼ Sub picture information

*1: "IR CONTROL" should be set "Primary" or "Secondary".

*2: "IR CONTROL" should be set "Primary".

Picture Mode

DVI, VGA, RGB/HV, DPORT
STANDARD → sRGB → AMBIENT1 → AMBIENT2 → HIGHBRIGHT

HDMI, DVD/HD, SCART, VIDEO1, VIDEO2, S-VIDEO
STANDARD → CINEMA → AMBIENT1 → AMBIENT2 → HIGHBRIGHT
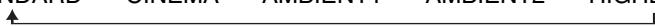
AMBIENT Mode

The backlight of the LCD screen can be set to increase or decrease depending on the amount of ambient light within the room. If the room is bright, the monitor becomes correspondingly bright. If the room is dim, then the monitor will dim accordingly. The purpose of this function is to make the viewing experience more comfortable to the eye in a variety of lighting conditions.

NOTE: When picture mode is set to AMBIENT1 or AMBIENT2, BACKLIGHT, AUTO BRIGHTNESS and BACKLIGHT in SCREEN SAVER function are disabled.
Do not cover Ambient light sensor when you use AMBIENT1 or AMBIENT2 in PICTURE MODE.

AMBIENT parameter setting

PICTURE MODE in OSD, select AMBIENT1 or AMBIENT2 and set IN BRIGHT and IN DARK in each mode.

IN BRIGHT: This is the backlight level that the monitor will go up to when the ambient light level is highest.

IN DARK: This is the level of backlight that the monitor will go down to when the ambient light level is low.

When the AMBIENT function is enabled the Backlight level of the screen changes automatically according to the lighting conditions of the room (**Figure 1**).

Factory Setting

100%

BACKLIGHT range

BACKLIGHT level set
for the monitor to use
when ambient lighting
level is low.

BACKLIGHT level set for the
monitor to use when ambient
lighting level is high.

IN DARK   IN BRIGHT   0%

room bright condition

dark   bright

············· Screen Backlight value by AMBIENT1 mode
—————— Screen Backlight value by AMBIENT2 mode
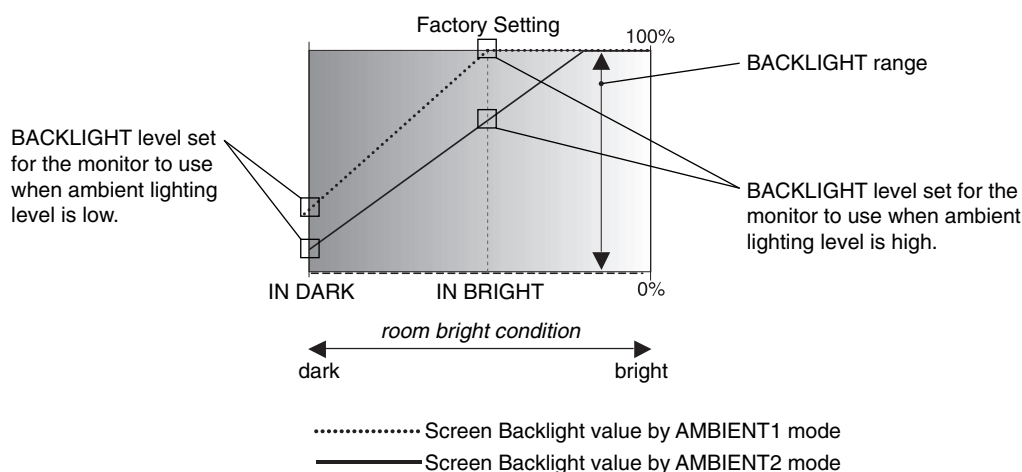
Figure 1

IN DARK: BACKLIGHT level set for the monitor to use when ambient lighting level is low.
IN BRIGHT: BACKLIGHT level set for the monitor to use when ambient lighting level is high.

OSD (On-Screen-Display) Controls

NOTE: Some functions may not be available depending on the model or optional equipment.

Input source — HDMI

Main Menu Icons — [PICTURE] [ADJUST] [AUDIO] [SCHEDULE] [PIP] [OSD] [MULTI-DSP] [PROTECT] [ADVANCED] [PRO]

Main Menu Item — PICTURE:

Sub Menu —
BACKLIGHT
CONTRAST
SHARPNESS
BRIGHTNESS
HUE
COLOR
COLOR TEMPERATURE
COLOR CONTROL
GAMMA CORRECTION
MOVIE SETTINGS
PICTURE MODE
RESET

Adjustment Settings —
− |||||||||||||||||| + 70
− |||||||||||||||||| + 50
− |||||||||||||||||| + 50
− |||||||||||||||||| + 50
− |||||||||||||||||| + 50
− |||||||||||||||||| + 50

THANK YOU FOR SAVING
THE ENVIRONMENT.
CARBON FOOTPRINT 86.0 %

△▽:Select +− SET:Goto Adjustment EXIT:Return MENU:Close

Key Guide

Remote Control

Press UP or DOWN button to select sub-menu.

Press SET.

Press UP or DOWN, PLUS or MINUS to select the function or setting to be adjusted.

Press MENU or EXIT.

Press UP or DOWN button to select.

Press INPUT button to decide.

Press UP or DOWN, PLUS or MINUS button to select.

Press EXIT

Control Panel

EXIT ▼ ▲ − + INPUT MUTE ⏻

OSD screen

HDMI
[PICTURE] [ADJUST] [AUDIO] [SCHEDULE] [PIP] [OSD] [MULTI-DSP] [PROTECT] [ADVANCED]
PICTURE:
BACKLIGHT
CONTRAST
SHARPNESS
BRIGHTNESS
HUE
COLOR
COLOR TEMPERATURE
COLOR CONTROL
GAMMA CORRECTION
MOVIE SETTINGS
PICTURE MODE
RESET
+−:Select △▽ SET:Goto List EXIT MENU:Close

HDMI
[PICTURE] [ADJUST] [AUDIO] [SCHEDULE] [PIP] [OSD] [MULTI-DSP] [PROTECT] [ADVANCED]
PICTURE:
BACKLIGHT   − ||||||||||| + 70
CONTRAST   − ||||||||||| + 50
SHARPNESS   − ||||||||||| + 50
BRIGHTNESS   − ||||||||||| + 50
HUE   − ||||||||||| + 50
COLOR   − ||||||||||| + 50
COLOR TEMPERATURE   − ||||||||||| + 50
COLOR CONTROL
GAMMA CORRECTION
MOVIE SETTINGS   THANK YOU FOR SAVING
PICTURE MODE   THE ENVIRONMENT.
RESET   CARBON FOOTPRINT   86.0 %
△▽:Select +− SET:Goto Adjustment EXIT:Return MENU:Close

English-22

Setting			Default
PICTURE			
BACKLIGHT		Adjusts the overall image and background brightness. Press + or - to adjust. Note: When AMBIENT1 or AMBIENT2 is selected in picture mode, this function cannot be changed.	Depends on destination
CONTRAST		Adjusts the image brightness in relationship to the input signal. Press + or - to adjust. Note: When sRGB is selected in picture mode, this function cannot be changed.	50
SHARPNESS		Adjusts the crispness of the image. Press + or - to adjust.	50*
BRIGHTNESS		Adjusts the image brightness in relationship to the background. Press + or - to adjust. Note: When sRGB is selected in picture mode, this function cannot be changed.	50
HUE		Adjusts the hue of the screen. Press + or - to adjust. Note: When sRGB is selected in picture mode, this function cannot be changed.	50
COLOR		Adjusts the color depth of the screen. Press + or - to adjust. Note: When sRGB is selected in picture mode, this function cannot be changed.	50*
COLOR TEMPERATURE		Adjusts the color temperature of the entire screen. A low color temperature will make the screen reddish. A high color temperature will make the screen bluish. If TEMPERATURE needs further adjustment, the individual R/G/B/ levels of the white point can be adjusted. To adjust the R/G/B levels, CUSTOM must be showing as the COLOR TEMP selection. Note: When sRGB is selected in picture mode, predefined 6500k is set so it cannot be changed. When PROGRAMMABLE is selected in GAMMA CORRECTION, this function cannot be changed.	10000K
COLOR CONTROL		Adjusts the hue of the Red, Yellow, Green, Cyan, Blue and Magenta. Note: When sRGB is selected in picture mode, this function cannot be changed.	0
GAMMA CORRECTION		Select a display gamma for best picture quality. Note: When sRGB is selected in picture mode, this function cannot be changed.	NATIVE* (except sRGB setting)
	NATIVE	Gamma correction is handled by the LCD panel.	
	2.2	Typical display gamma for use with a PC.	
	2.4	Good for video (DVD, etc.)	
	S GAMMA	Special gamma for certain types of movies. Raises the dark parts and lowers the light parts of the image (S-Curve).	
	DICOM SIM.	DICOM GSDF curve simulated for LCD type.	
	PROGRAMMABLE	A programmable gamma curve can be loaded using NEC optional software.	
MOVIE SETTINGS			
	NOISE REDUCTION VIDEO1, VIDEO2, S-VIDEO inputs only	Adjusts the amount of noise reduction. Press + or - to adjust.	0*
	TELECINE HDMI, DVD/HD, SCART, VIDEO1, VIDEO2, S-VIDEO inputs only	Automatically senses the sources frame rate for optimal picture quality.	AUTO*
	ADAPTIVE CONTRAST HDMI, DVD/HD, SCART, VIDEO1, VIDEO2, S-VIDEO inputs only	Sets the level of adjustment for dynamic contrast.	OFF
PICTURE MODE		Selects picture mode, [HIGHBRIGHT], [STANDARD], [sRGB], [CINEMA], [AMBIENT1] or [AMBIENT2]. See page 21.	Depends on destination
RESET		Resets the following settings within the PICTURE menu back to factory setting: BACKLIGHT, CONTRAST, SHARPNESS, BRIGHTNESS, HUE, COLOR, COLOR TEMPERATURE, COLOR CONTROL, GAMMA CORRECTION, MOVIE SETTINGS.	-
ADJUST			
AUTO SETUP VGA, RGB/HV inputs only		Automatically adjusts Screen Size, H position, V position, Clock, Phase and White Level.	-
AUTO ADJUST VGA, RGB/HV inputs only		H Position, V Position and Phase are adjusted automatically when new timing is detected.	OFF
H POSITION All inputs except DVI, HDMI, DPORT		Controls the horizontal position of the image within the Display area of the LCD. Press + to move right. Press - to move left.	-
V POSITION All inputs except DVI, HDMI, DPORT		Controls the vertical position of the image within the Display area of the LCD. Press + to move up. Press - to move down.	-
CLOCK VGA, RGB/HV inputs only		Press + to expand the width of the image on the right of the screen. Press - to narrow the width of the image on the left.	-
PHASE VGA, RGB/HV, DVD/HD, SCART inputs only		Adjusts the visual "noise" on the image.	-

*: depends on signal input

H RESOLUTION VGA, RGB/HV inputs only		Adjusts the horizontal size of the image.		-
V RESOLUTION VGA, RGB/HV inputs only		Adjusts the vertical size of the image.		-
INPUT RESOLUTION VGA, RGB/HV inputs only		If there is a problem with signal detection, this function forces the monitor to display the signal at the desired resolution. After selection, execute "AUTO SETUP" if required. If no problem is detected, the only available option will be "AUTO".		AUTO
ASPECT		Select the aspect ratio of the screen image.		FULL
	NORMAL	Displays the aspect ratio the same as it is sent from the source.		-
	FULL	Fills entire screen.		-
	WIDE	Expands a 16:9 letter box signal to fill entire screen.		-
	DYNAMIC	Expands a 4:3 pictures to fill the entire screen with non-linearity. Some of the outside image area will be cut off due to expansion. TILE MATRIX becomes invalid.		-
	1:1	Display the image in a 1 by 1 pixel format. (If the input resolution is higher than a 1920 x 1080 resolution, the image will be scaled down to fit the screen). TILE MATRIX becomes invalid.		-
	ZOOM	The image can be expanded/reduced. Note: The expanded image which is outside of active display area is not shown. The reduced image may have some image degradation.		-
		ZOOM	Maintains the aspect ratio while zooming.	-
		H ZOOM	Amount of horizontal zoom.	
		V ZOOM	Amount of vertical zoom.	
		H POS	Horizontal position.	
		V POS	Vertical position.	
RESET		Resets the following settings within the ADJUST menu back to factory setting: AUTO ADJUST, H POSITION, V POSITION, CLOCK, PHASE, H RESOLUTION, V RESOLUTION, ASPECT.		-

AUDIO

VOLUME		Increases or decreases output volume level.	40
BALANCE		Adjust the balance of L/R volume. Press + button to move the stereo sound image to right. Press - button to move the stereo sound image to left.	CENTER
TREBLE		To accentuate or reduce the high frequency sound. Press + button to increase TREBLE sound. Press - button to decrease TREBLE sound.	0
BASS		To accentuate or reduce the low frequency sound. Press + button to increase BASS sound. Press - button to decrease BASS sound.	0
SURROUND		Artificial surround sound. Note: Audio out is disabled when this function is set to ON.	OFF
PIP AUDIO		Selects source of PIP audio.	MAIN AUDIO
LINE OUT		Selecting "VARIABLE" enables control of the line out level with the VOLUME button. Note: Audio out is disabled when this function is set to ON.	FIXED
	INTERNAL SPEAKER (not adjustable)		-
AUDIO INPUT		Selects audio input source [IN1], [DPORT], [HDMI], [OPTION]*.	Depend on signal input
AUDIO DELAY		Enables to set the delay time to output the audio. DELAY TIME can be set between 0 and 8. "ON" activates this function.	V552-TM: OFF, 2 V801-TM: ON, 2
RESET		Resets "AUDIO" options back to factory settings except VOLUME.	-

SCHEDULE

OFF TIMER	Sets the monitor to power off after a length of time. A time between 1 to 24 hours is available.	OFF
SCHEDULE SETTINGS	Creates a working schedule for the monitor to use. NOTE: If your schedule is across date, please set ON time and OFF time individually at Settings.	-
SCHEDULE LIST	List of schedules.	-

*: The product you purchased may not have this feature.

DATE & TIME		Sets the date, time, and daylight saving region. Date & time must be set in order for the "SCHEDULE" function to operate. See page 31.	
	YEAR	Configures the year for the real time clock.	-
	MONTH	Configures the month for the real-time clock.	-
	DAY	Configures the day for the real-time clock.	-
	TIME	Configures the time for the real-time clock.	-
	DAYLIGHT SAVING	Configures daylight savings on or off.	OFF
RESET		Resets the following settings within the SCHEDULE menu back to factory setting: OFF TIMER, SCHEDULE SETTINGS and SCHEDULE LIST.	-
PIP			
KEEP PIP MODE		Allows the monitor to remain in "PIP" and "TEXT TICKER" mode after powering off. When Power is returned, PIP and TEXT TICKER appear without having to enter the OSD.	OFF
PIP MODE		Selects Picture-in-Picture mode.	OFF
	OFF	Normal mode.	
	PIP	Picture in Picture mode.	
	POP	Picture out Picture mode.	
	PICTURE BY PICTURE-ASPECT	Picture by picture (split screen) mode, with keep aspect.	
	PICTURE BY PICTURE-FULL	Picture by picture (split screen) mode, with full screen.	
PIP SIZE		Selects the size of the sub-picture used in Picture-in-Picture (PIP) mode.	LARGE
	SMALL		
	MIDDLE		
	LARGE		
PIP POSITION		Determines where the PIP appears on the screen.	X = 95, Y = 92
ASPECT		Selects sub picture aspect, [FULL], [NORMAL] and [WIDE]. See page 20.	FULL
TEXT TICKER			OFF
	MODE	Enables Text Ticker and allows you to set Horizontal or Vertical direction.	
	POSITION	Selects the location of the Text Ticker on the screen.	
	SIZE	Determines the size of the Text Ticker in relationship to the overall screen size.	
	BLEND	Sets the transparency of the Text Ticker (0: transparent, 100: opaque).	
	DETECT	Enables auto-detection of the Text Ticker.	
	FADE IN	Enables fade-in of the text ticker.	
SUB INPUT		Selects sub picture input signal.	Depends on signal input
RESET		Resets PIP options back to factory settings except ASPECT and SUB INPUT.	-
OSD			
LANGUAGE		Select the language used by the OSD.	ENGLISH (Depends on destination)
	ENGLISH		
	DEUTSCH		
	FRANÇAIS		
	ITALIANO		
	ESPAÑOL		
	SVENSKA		
	РУССКИЙ		
	中文		
	日本語		
MENU DISPLAY TIME		Turns off the OSD after a period of inactivity. The preset choices are 10-240 seconds.	30 Sec.

English-25

OSD POSITION		Determines the location where the OSD appears on the screen.	X = 128, Y = 225
	UP		
	DOWN		
	LEFT		
	RIGHT		
INFORMATION OSD		Selects whether the information OSD is displayed or not. The information OSD will be displayed when the input signal or source changes. The information OSD will also give a warning when there is no-signal or the signal is out-of range. An interval between 3 to 10 seconds for the Information OSD to appear is available.	ON, 3 Sec.
MONITOR INFORMATION		Indicates the model and serial number of your monitor. CARBON SAVINGS: Display the estimated carbon saving information in kg-CO2. The carbon footprint factor in the carbon saving calculation is based on the OECD (2008 Edition). CARBON USAGE: Display the estimated carbon usage information in kg-CO2. This is the arithmetic estimation, not actual measurement value. This estimation is based without any options.	-
OSD TRANSPARENCY		Set the transparency of the OSD.	ON
OSD ROTATION		Determines the OSD display direction between landscape and portrait.	LANDSCAPE
	LANDSCAPE	Display the OSD with landscape mode.	
	PORTRAIT	Display the OSD with portrait mode.	
INPUT NAME		You can create a name for the INPUT currently being used. Max: 8 characters, including Space, A-Z, 0-9, and some symbols.	-
CLOSED CAPTION VIDEO1, VIDEO2, S-VIDEO inputs only		Activates closed captioning.	OFF
RESET		Resets the following settings within the OSD menu back to factory setting: MENU DISPLAY TIME, OSD POSITION, INFORMATION OSD, OSD TRANSPARENCY, CLOSED CAPTION.	-
MULTI DISPLAY			
CONTROL ID		Sets the monitor ID number from 1-100 and group ID from A-J. When "YES" is selected in "AUTO ID", monitor ID numbers are set automatically in all monitors which follow in the chain with RS-232C. NOTE: Group ID is made of multiple selections.	1
IR CONTROL		Selects the mode of the monitor for use with the infra-red remote control when using the RS-232C daisy chain.	NORMAL
	NORMAL	The monitor will be controlled normally using the wireless remote control.	
	PRIMARY	Choose "PRIMARY" for the first monitor within an RS-232C daisy chain.	
	SECONDARY	Choose "SECONDARY" for all subsequent monitors within an RS-232C daisy chain.	
IR LOCK SETTINGS		Prevents the monitor from being controlled by the wireless remote control. When ACTIVATE is selected, all the settings are activated. NOTE: IR LOCK SETTINGS is a function intended only to the wireless remote control buttons. This function does not lock out access to all buttons at the back of the monitor. To return to normal operation, press the "DISPLAY" button on the remote control for 5 seconds.	UNLOCK
	MODE SELECT	Selects the mode UNLOCK, ALL LOCK or CUSTOM LOCK.	
	UNLOCK	All buttons on the remote control are available for normal operations.	
	ALL LOCK	Locks all remote control buttons.	
	CUSTOM LOCK	Selects which buttons to be locked from POWER, VOLUME, and INPUT button. Except for CUSTOM LOCK settings, other buttons on the remote control are locked. POWER: When LOCK is selected, POWER button is locked. VOLUME: When UNLOCK is selected, sets minimum and maximum volume between VOL.0 to VOL.100. VOLUME (+) button and VOLUME (-) buttons are only available from the minimum volume to the maximum volume you set. When LOCK is selected, VOLUME (+) button and VOLUME (-) buttons are locked. INPUT: When UNLOCK is selected, choose up to three buttons from DVI, DisplayPort, VGA, HDMI, DVD/HD*2, VIDEO*2, S-VIDEO*2, OPTION*1 which you prefer to be unlocked. The unselected buttons are locked. When LOCK is selected, all INPUT buttons are locked.	

*1: This function depends on which option board you use.
*2: This function depends on Terminal setting.

TILE MATRIX		Allows one image to be expanded and displayed over multiple screens (up to 100) through a distribution amplifier. NOTE: Low resolution is not suitable for tiling to a large number of monitors. You can operate without a distribution amplifier at a lower number of screens. Dynamic or 1:1 will not work when Tile Matrix is activated. When "DYNAMIC" or "1:1 is selected in ASPECT while executing TILE MATRIX, the setting will be applied after TILE MATRIX completion.	
	H MONITORS	Number of monitors arranged horizontally.	1
	V MONITORS	Number of monitors arranged vertically.	1
	POSITION	Select which section of the tiled image to be displayed on the monitor.	1
	TILE COMP	Turns the TILE COMP feature on.	NO
	ENABLE	Enables Tile Matrix.	NO
TILE MATRIX MEM		When "INPUT" is selected, TILE MATRIX setting is applied to each signal input.	COMMON
POWER ON DELAY		Adjusts the delay time between being in "standby" mode and entering "power on" mode. "POWER ON DELAY" can be set between 0 and 50 seconds.	0 Sec.
POWER INDICATOR		Turns ON or OFF the LED located at the front of the monitor. If "OFF" is selected, LED will not light when the LCD monitor is in active mode.	ON
EXTERNAL CONTROL			
	CONTROL	Selects the control interface, RS-232C or LAN.	RS-232C
	LAN RESET	Resets the LAN settings.	-
	ID=ALL REPLY	When controlling the monitor externally, select if the communication command, which specifies destination equipment ID (ALL or GROUP ID), is replying or not. When you need reply, please select "ON". If you connect the multiple monitors that are daisy-chained from second monitor by RS-232C, you need to select "OFF" from second monitor.	OFF
	MAC ADDRESS	Displays the MAC ADDRESS.	-
LAN SETTING		When you use this function, EXTERNAL CONTROL should be "LAN". NOTE: When changing the LAN SETTING, you need to wait several seconds until the LAN SETTING is applied.	
	DHCP	Enabling this option automatically assigns an IP address to the monitor from your DHCP server. Disabling this option allows you to register the IP address or subnet mask number obtained from your network administrator. NOTE: Consult your network administrator for the IP address when "ENABLE" is selected for [DHCP].	DISABLE
	IP ADDRESS	Set your IP address of the network connected to the monitor when "DISABLE" is selected for [DHCP].	192.168.0.10
	SUBNET MASK	Set your subnet mask number of the network connected to the monitor when "DISABLE" is selected for [DHCP].	255.255.255.0
	DEFAULT GATEWAY	Set your default gateway of the network connected to the monitor when "DISABLE" is selected for [DHCP].	192.168.0.1
	DNS PRIMARY	Set your primary DNS settings of the network connected to the monitor.	0.0.0.0
	DNS SECONDARY	Set your secondary DNS settings of the network connected to the monitor.	0.0.0.0
SETTING COPY		In a daisy chain scenario, select the OSD menu categories that you want to copy over to the other monitor. NOTE: When you use this function, EXTERNAL CONTROL should be "RS-232C". This function resets to default when power is off. This function has a limit depending on the cable you use.	NO
	COPY START	Select "YES" and press the SET button to start copying.	
	ALL INPUT	All input terminals settings are copied when you select this item. Default is off.	
RESET		Resets "MULTI DISPLAY" options back to factory settings except LAN SETTING and TILE MATRIX MEM.	-

DISPLAY PROTECTION

POWER SAVE		If AUTO STANDBY is in OFF mode, POWER SAVE must be turned ON for the display to enter the suspend power saving mode when an active signal is not present. The monitor will automatically recover to ON state when a signal is reapplied.	
	POWER SAVE	Sets how long the monitor waits to go into power save mode after the signal is lost. Note: When connecting DVI, the display card might not stop sending the digital data even though the image might have disappeared. If this occurs the monitor will not switch into power management mode.	OFF
	AUTO STANDBY	ON: Monitor automatically goes into OFF mode 10 minutes after signal is lost. OFF: Monitor does not automatically go into OFF mode even after signal is lost. NOTE: This function is disabled when RGB, VIDEO or OPTION POWER are enabled. AUTO STANDBY will not allow the monitor to turn on after a signal is reapplied. The monitor would need to receive a Power ON signal via the remote control, the control buttons RS-232C or LAN to show an image again.	ON
HEAT STATUS		Displays status of the FAN, BACKLIGHT and TEMPERATURE.	-
FAN CONTROL		Cooling fan reduces the temperature of the display to protect from overheating. If "AUTO" is selected, you can adjust the start temperature of the cooling fan and fan speed.	AUTO
SCREEN SAVER		Use the SCREEN SAVER function to reduce the risk of Image Persistence.	
	GAMMA	The display gamma is changed and fixed when "ON" is selected.	OFF
	BACKLIGHT	The brightness of backlight is decreased when "ON" is selected. NOTE: Do not select this function when picture mode is AMBIENT1 or AMBIENT2.	OFF
	MOTION	The screen image is slightly expanded and moves in 4 directions (UP, DOWN, RIGHT, LEFT) at user determined intervals. You can set interval time and zooming ratio. This function is disabled when PIP, STILL, TEXT TICKER or TILE MATRIX are enabled.	OFF
SIDE BORDER COLOR		Adjusts the color of the side borders when a 4:3 image is displayed. Press + button, the bar will become lighter. Press - button, the bar will become darker.	15
AUTO BRIGHTNESS DPORT, DVI, VGA, RGB/HV inputs only		Adjusts the brightness level according to the input signal. NOTE: Do not select this function when picture mode is AMBIENT1 or AMBIENT2.	OFF
CHANGE SECURITY PASSWORD		Allows the security password to be changed. The factory preset password is 0000.	-
SECURITY		Locks the security password. START-UP LOCK: Security password is required when the monitor power is on. CONTROL LOCK: Security password is required when the remote control button or control button on the monitor is pressed. BOTH LOCK: Security password is required when the monitor power is on, or the remote control button or control button on the monitor is pressed.	OFF
DDC/CI		ENABLE/DISABLE: Turns ON or OFF the two way communication and control of the monitor.	ENABLE
ALERT MAIL		Selects whether or not to send an e-mail notification of monitor error via wired LAN.	OFF
RESET		Resets the following settings within the DISPLAY PROTECTION menu back to factory setting: POWER SAVE, FAN CONTROL, SCREEN SAVER, SIDE BORDER COLOR, AUTO BRIGHTNESS, DDC/CI.	-

ADVANCED OPTION

INPUT DETECT		Selects the method of input detection the monitor uses when more than two input devices are connected.	NONE
	NONE	The Monitor will not search the other video input ports.	
	FIRST DETECT	When the current video input signal is not present, then the monitor searches for a video signal from the other video input port. If the video signal is present in the other port, then the monitor switches the video source input port to the new found video source automatically. The monitor will not look for other video signals while the current video source is present.	
	LAST DETECT	When the monitor is displaying a signal from the current source and a new secondary source is supplied to the monitor, the monitor will automatically switch to the new video source. When current video input signal is not present, the monitor searches for a video signal from the other video input port. If the video signal is present in the other port, then the monitor switches the video source input port to the new found video source automatically.	
	VIDEO DETECT	HDMI, DVD/HD, SCART, VIDEO1, VIDEO2 or S-VIDEO inputs will have priority over DVI, VGA. When HDMI, DVD/HD, SCART, VIDEO1, VIDEO2 or S-VIDEO input signal is present the monitor will change and keep to the HDMI, DVD/HD, SCART, VIDEO1, VIDEO2 or S-VIDEO input.	
	CUSTOM DETECT	Set the priority of input signals. When CUSTOM DETECT is selected, monitor searches listed inputs only. NOTE: OPTION input signal is only available to be set to PRIORITY5.	
INPUT CHANGE		Sets input change speed. NOTE: When "QUICK" is selected, picture may be distorted when signal input is changed. This function should be chosen after all adjustment options have been made for the input.	NORMAL
TERMINAL SETTING			
	DVI MODE	Selects the kind of DVI-D equipment which is connected to the DVI input. Select "DVI-PC" when PC or other computer equipment is connected. Select "DVI-HD" when DVD player, which has DVI-D output, is connected.	DVI-PC
	BNC MODE	Selects the type of signal associated with the BNC input. RGB: Analog input (R, G, B, H, V) COMPONENT: Component (Y, Cb/Pb, Cr/Pr) SCART: SCART signal VIDEO: Composite video (VIDEO2) S-VIDEO: Separate video	RGB
	HDMI SIGNAL	RAW: Disable the expanded feature. EXPAND: Expand image contrast and increase detail in the dark and bright areas.	EXPAND
DEINTERLACE		Selects the IP (Interlace to Progressive) conversion function. Note: For DVI input "DVI-HD" needs to be enabled in the DVI mode menu.	ON
	ON	Converts interlaced signals to progressive. This is the default setting.	
	OFF	Disables IP conversion. This setting is best suited for motion pictures, but increases the risk of image retention.	
COLOR SYSTEM _{VIDEO1, VIDEO2, S-VIDEO inputs only}		The selected Color System depends on the video format of the input signal.	AUTO
	AUTO	Automatically chooses Color System setting based on input signal.	
	NTSC		
	PAL		
	SECAM		
	4.43 NTSC		
	PAL-60		
OVER SCAN _{HDMI, DVD/HD, SCART, VIDEO1, VIDEO2, S-VIDEO inputs only}		Some video formats may require different scanning modes in order to best display the image.	ON
	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".	

| OPTION SETTING			You can set this setting when option board accessory is connected to the monitor. Please contact your supplier for detailed information about Option board slot accessories.	-
	OPTION POWER		Allow the monitor to supply power to Option board slot during power save mode or standby mode.	OFF
	AUDIO		The function is available for slot 2 type PC. Selects sound input signal. To activate DIGITAL, select OPTION(D) for input signal and OPTION for AUDIO INPUT. NOTE: DIGITAL is activated only when OPTION(D) is selected for input signal and OPTION for AUDIO INPUT.	ANALOG
	INTERNAL PC		The function is available for slot 2 type PC.	
		OFF WARNING	If OPTION POWER is OFF, a warning message appears when monitor power is turned off. Note: Warning message does not appear when monitor power is turned off by OFF TIMER setting or SCHEDULE setting.	OFF
		AUTO OFF	Monitor power is automatically "OFF" when connected PC is OFF or the monitor is in power save mode. NOTE: Monitor power is not automatically "ON" when connected PC is ON.	OFF
		START UP PC	When ON is selected, connected PC start-up.	NO
		FORCE QUIT	When ON is selected, it performs force-quit PC.	NO
120Hz (not adjustable)				-
RESPONSE IMPROVE (not adjustable)				-
TOUCH PANEL			NOTE: Touch function does not work in PIP mode. Select the input signal as follows: Using slot 2 type PC: Select [OPTION]. Using external computer: Select the input signal which is supplied by the PC connected to USB connector.	ON
	STANDBY		When ON is selected, touch function is available.	
	PC SOURCE		Selects EXTERNAL PC or AUTO (INTERNAL).	
RESET			Resets the following settings within the ADVANCED OPTION menu back to factory setting: INPUT DETECT (except the priority of input signals), INPUT CHANGE, TERMINAL SETTING, DEINTERLACE, COLOR SYSTEM, OVER SCAN, AUDIO in OPTION SETTING, START UP PC in OPTION SETTING and FORCE QUIT in OPTION SETTING.	-
FACTORY RESET			All items are returned to factory shipment state. NOTE: You can reset all items in all daisy chain displays. Please be careful to avoid resetting all items inadvertently.	-

NOTE 1: CREATING A SCHEDULE

The schedule function allows the display to be set to power on and off at different times. Up to seven different schedules can be programmed.

To program the schedule:

1. Enter the SCHEDULE menu. Highlight SCHEDULE SETTINGS using the up and down buttons. Press the SET or the + button to enter the Settings menu. Highlight the desired schedule number and press set. The box next to the number will turn yellow. The schedule can now be programmed.

2. Use the down button to highlight the hours setting in the ON time slot. Use the + and - buttons to set the hour. Use the up and down buttons to highlight the minutes setting. Use the + and - buttons to set the minutes. Set the OFF time in the same manner.

3. Use the up and down arrows to highlight INPUT. Use the + and - buttons to choose the input source. Use the up and down arrows to highlight PIC. MODE. Use the + and - buttons to choose the picture mode.

4. Use the down button to select a day on which the schedule will be enabled. Push the set button to enable. If the schedule is to be ran every day, choose EVERY DAY and press the SET button. The circle next to EVERY DAY will turn yellow. If a weekly schedule is desired, choose the days of the week using the up and down buttons and pressing SET to select. Then highlight the EVERY WEEK option and press SET.

5. After a schedule is programmed the remaining schedules can then be set. Press MENU to leave the OSD or press EXIT to go back to the previous menu.

   Note: If schedules are overlapping then the schedule with the highest number will have priority over the schedule with the lowest number. For example schedule #7 will have priority over schedule #1.
   If selected input or picture mode is not available now, disable input or picture mode is shown in red.
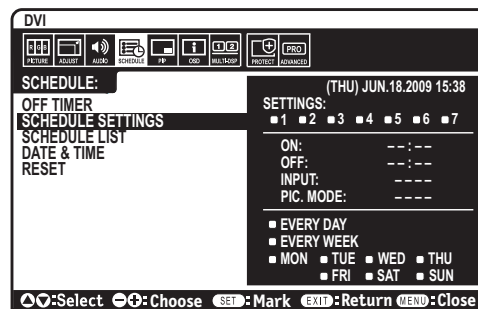
NOTE 2: IMAGE PERSISTENCE

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 monitor for as long as the previous image was displayed. For example, if an image was on the monitor for one hour and a residual image remains, the monitor should be turned off for one hour to erase the image.
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 monitor when not in use.

Please set "SCREEN SAVER", "DATE &TIME" and "SCHEDULE SETTINGS" functions to further reduce the risk of Image persistence.

For long life use as Public Display

Image Sticking of LCD Panel

When an LCD panel is operated continuously for long hours, a trace of electric charge remains near the electrode inside LCD, and residual or "ghost" image of previous image may be observed. (Image Persistence)
Image Persistence is not permanent, but when fixed image is displayed for long period, ionic impurities inside LCD are accumulated along the displayed image, and may be permanent. (Image Sticking)

Recommendations

To prevent Image Sticking, and for longer life usage of LCD, the following are recommended.

1. Fixed image should not be displayed for long period. Change fixed images after short intervals.

2. When not in use, please turn off the monitor by remote control, or use Power Management or use Schedule Functions.

3. Lower environmental temperatures prolong the lifespan of the monitor.
   When Protective surface (glass, acrylic) is installed over the LCD surface, the LCD surface is located in an enclosed space, the monitor are stacked, utilize the temperature sensors inside monitor.
   To reduce the environmental temperature, use the Cooling Fan, Screen Saver and Low Brightness.

4. Please use "Screen Saver Mode" of monitor.

Remote Control Function

REMOTE CONTROL ID FUNCTION

REMOTE CONTROL ID

The remote control can be used to control up to 100 individual MultiSync monitors using what is called the REMOTE CONTROL ID mode. The REMOTE CONTROL ID mode works in conjunction with the Monitor ID, allowing control of up to 100 individual MultiSync monitors. For example: if there are many monitors being used in the same area, a remote control in normal mode would send signals to every monitor at the same time (see Figure 1). Using the remote in REMOTE CONTROL ID mode will only operate one specific monitor within the group (see Figure 2).

TO SET REMOTE CONTROL ID

While holding down the REMOTE ID SET button on the remote control, use the KEYPAD to input the Monitor ID (1-100) of the display to be controlled via remote. The remote can then be used to operate the monitor having that specific Monitor ID number.
When 0 is selected or when the remote control is in normal mode, all monitors will be operated.

TO SET/RESET REMOTE CONTROL MODE

ID Mode - To enter ID Mode press the REMOTE ID SET button and hold down for 2 seconds.
Normal Mode - To return to Normal Mode press the REMOTE ID CLEAR button and hold down for 2 seconds.

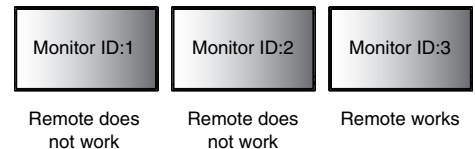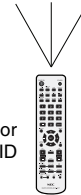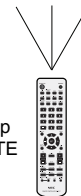In order for this feature to work properly, the display must be assigned a Monitor ID number. The Monitor ID number can be assigned under the MULTI DISPLAY menu in the OSD (See page 26).

Point the remote control towards the remote sensor of the desired monitor and press the REMOTE ID SET button. The MONITOR ID number is shown on the display when your remote control is in ID mode.

Monitor ID:1	Monitor ID:2	Monitor ID:3
Remote works	Remote works	Remote works

Figure 1
Remote in Normal mode or the REMOTE ID is set to 0

Monitor ID:1	Monitor ID:2	Monitor ID:3
Remote does not work	Remote does not work	Remote works

Figure 2
Remote set up to use REMOTE ID:3

Use the remote control to operate a monitor that has a specific MONITOR ID number assigned to it.

1. Set the MONITOR ID number for the display (See page 26). The MONITOR ID number can range from 1-100.
   This MONITOR ID number allows the remote control to operate this specific monitor without affecting other monitors.

2. On the remote control, press and hold down the REMOTE ID SET button while using the keypad to input the REMOTE CONTROL ID number (1-100). The REMOTE ID NUMBER should match the MONITOR ID number of the display to be controlled. Choose "0" to simultaneously control all displays in range.

3. Point the remote control towards the remote sensor of the desired monitor and press the REMOTE ID SET button.
   The MONITOR ID number is shown in red on the display.
   If the REMOTE CONTROLID is "0", then all displays in range will show their respective MONITOR ID number in red.

   If the MONITOR ID number is shown in white on the display, the MONITOR ID number and the REMOTE CONTROL ID are not the same.

This LCD monitor can be controlled via personal computer or wireless remote control using an RS-232C connection.

MONITOR ID and IR CONTROL

Using one PC or one infrared wireless remote control, up to 100 individual LCD monitors can be controlled through a daisy chain via RS-232C connection.

1. Connect PC and LCD monitors.

Connect a PC's RS-232C control output to the LCD monitor RS-232C input. You can then connect the RS-232C output from the LCD monitor to another LCD monitor RS-232C input. Up to 100 monitors can be connected using RS-232C.

2. Set Monitor ID and IR Control mode.

For proper operation, the Monitor ID should be set in the OSD menu of each monitor that is in the chain. The Monitor ID can be set under the "MULTI DISPLAY" menu in the OSD. The Monitor ID number can be set within a range from 1 to 100. No two monitors should share the same Monitor ID number. It is recommended to number each monitor in a daisy chain sequentially from 1. The first monitor in the daisy chain is designated as the primary monitor. Subsequent monitors with the chain are secondary monitors.

In the "ADVANCED OPTION" menu on the first monitor in the RS-232C daisy chain set the "IR CONTROL" to "PRIMARY".

Set the "IR CONTROL" to "SECONDARY" on all other monitors.

3. **Press the "DISPLAY" button on the remote control while aiming at the "PRIMARY" monitor. The Information OSD will be shown at top left side of the screen.**

   Monitor ID: Displays the ID number of the current monitor within the daisy chain.

   Target ID: Displays the ID number of the monitor that to be controlled via daisy chain from the current monitor.

   Press the "+" or "-" buttons to change the "Target ID" to show the ID number of the monitor to be controlled. To control the entire daisy chained monitors simultaneously, select "ALL" as the "Target ID."

4. **Use the wireless remote control to control the "SECONDARY" monitor while aiming at the "PRIMARY" monitor.**

   The "MENU OSD" will appear on the selected target monitor.

   NOTE: If the "ID No." mode select OSD is showing, press the "DISPLAY" button on the remote control while pointing at the "PRIMARY" monitor to clear this OSD.

   HINT: If you lost control due to the incorrect setting of "IR CONTROL", pressing the "DISPLAY" button on the remote control for 5 or more seconds will reset the "IR CONTROL" menu to "NORMAL" function.

Controlling the LCD monitor via RS-232C Remote Control

This LCD monitor can be controlled by connecting a personal computer with a RS-232C terminal.

NOTE: When you use this function, EXTERNAL CONTROL should be "RS-232C" (See page 27).

Functions that can be controlled by a personal computer are:

- Power ON or OFF.
- Switching between input signals.
- Sound Mute ON or OFF.

Connection

LCD Monitor + PC

IN   OUT

PC
(Out)   RS-232C (IN)   RS-232C (OUT)   RS-232C (IN)   RS-232C (OUT)

RS-232C Cable   RS-232C Cable

MultiSync
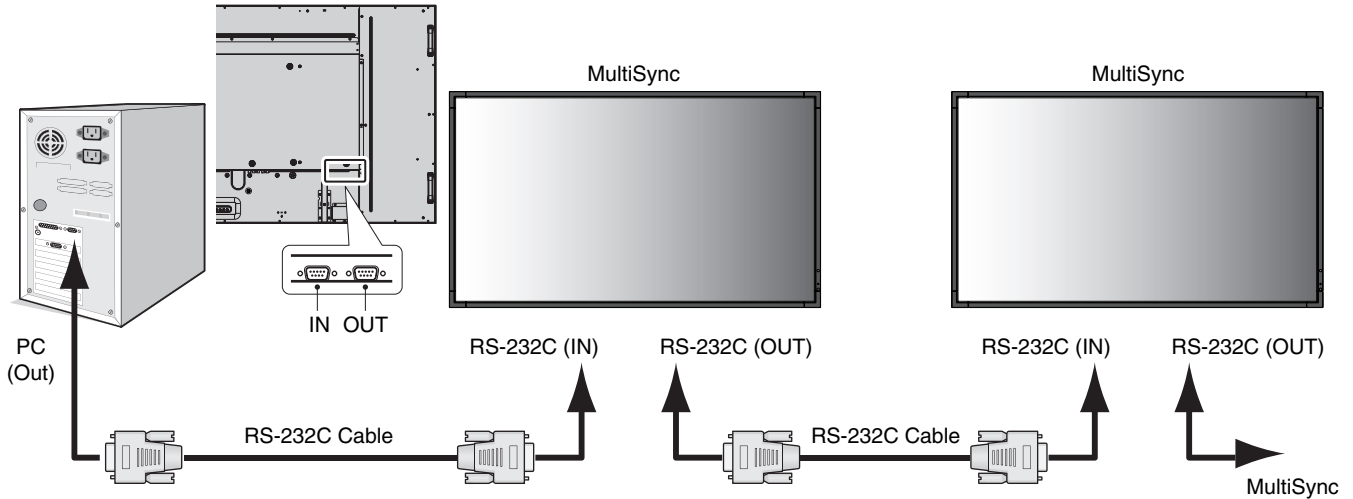
NOTE: If your PC is equipped only with a 25-pin serial port connector, a 25-pin serial port adapter is required. Contact your dealer for details.
Check the "ID=ALL REPLY" setting in "EXTERNAL CONTROL".

* In order to function, the RS-232C OUT terminal can only be connected to another monitor of the same model.
Do not connect to other types of equipment.

To control monitor or multiple monitors that are daisy-chained together, please use the control command. Instructions for the control command can be found on the CD included with the display. The file is called "External_control.pdf".

Multiple monitors that are daisy-chained have a limit to the conectable monitor.

1) Interface

PROTOCOL	RS-232C
BAUD RATE	9600 [bps]
DATA LENGTH	8 [bits]
PARITY BIT	NONE
STOP BIT	1 [bit]
FLOW CONTROL	NONE

This LCD monitor 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.

2) Control command diagram

For other commands, please see "External_Control.pdf" file on the CD-ROM.

Function (Monitor ID = 1)	Code Data
Power ON	01 30 41 30 41 30 43 02 43 32 30 33 44 36 30 30 30 31 03 73 0d
Power OFF	01 30 41 30 41 30 43 02 43 32 30 33 44 36 30 30 30 34 03 76 0d
Input Source Select DisplayPort	01 30 41 30 45 30 41 02 30 30 36 30 30 30 30 46 03 04 0d
Input Source Select DVI	01 30 41 30 45 30 41 02 30 30 36 30 30 30 30 33 03 71 0d
Input Source Select VGA	01 30 41 30 45 30 41 02 30 30 36 30 30 30 30 31 03 73 0d
Input Source Select HDMI	01 30 41 30 45 30 41 02 30 30 36 30 30 30 31 31 03 72 0d
Input Source Select DVD/HD	01 30 41 30 45 30 41 02 30 30 36 30 30 30 30 43 03 01 0d
Input Source Select VIDEO	01 30 41 30 45 30 41 02 30 30 36 30 30 30 30 35 03 77 0d
Input Source Select S-VIDEO	01 30 41 30 45 30 41 02 30 30 36 30 30 30 30 37 03 75 0d
Input Source Select OPTION	01 30 41 30 45 30 41 02 30 30 36 30 30 30 30 44 03 06 0d
Sound Mute ON	01 30 41 30 45 30 41 02 30 30 38 44 30 30 30 31 03 09 0d
Sound Mute OFF	01 30 41 30 45 30 41 02 30 30 38 44 30 30 30 32 03 0a 0d

Controlling the LCD monitor via LAN Control

Connecting to a Network

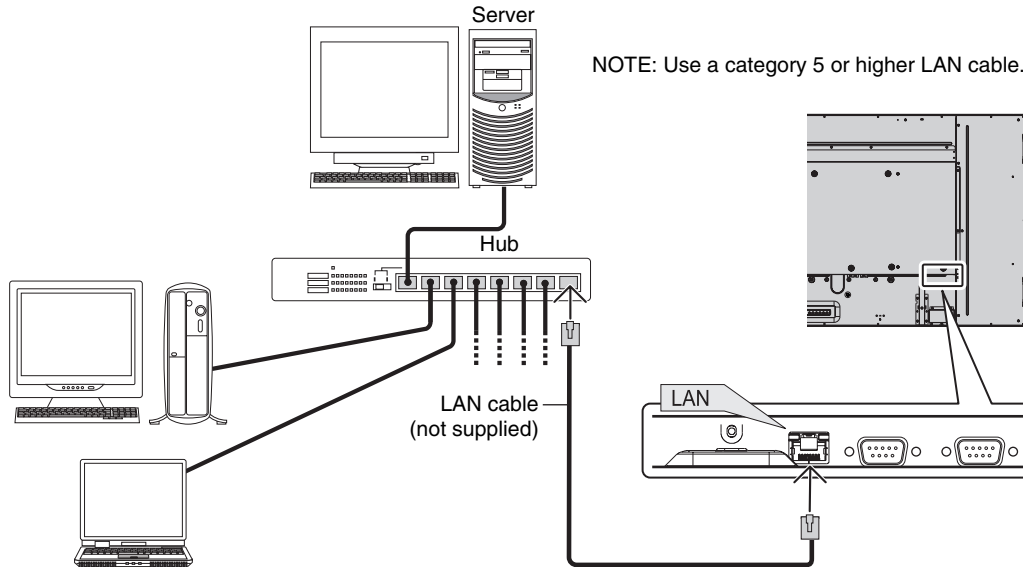Using a LAN cable allows you to specify the Network Settings and the Alert Mail Settings by using an HTTP server function.

NOTE: When you use this function, EXTERNAL CONTROL should be "LAN" (See page 27).

To use a LAN connection, you are required to assign an IP address.

Example of LAN connection:

Network Setting by Using an HTTP Browser

Overview

Connecting the monitor to a network allows for monitor control from a computer via the network.

To perform the monitor control from a web browser, you must have an exclusive application installed on your computer.

The IP address and subnet mask of the monitor can be set on the Network Setting screen of the web browser by using an HTTP server function. Please be sure to use "Microsoft Internet Explorer 6.0" or a higher version for the web browser.
(This device uses "JavaScript" and "Cookies" and the browser should be set to accept these functions. The setting method will vary depending on the version of browser. Please refer to the help files and the other information provided in your software.)

Access is gained to the HTTP server function by starting the Web browser on the computer via the network connected to the monitor and entering the following URL.

Network Setting

http://<the Monitor's IP address>/index.html

TIP: The default IP address is "192.168.0.10".
The exclusive application can be downloaded from our website.

NOTE: If the MONITOR NETWORK SETTINGS screen does not appear in the web browser, press the Ctrl+F5 keys to refresh your web browser (or clear the cache).

The display or button's response can be slowed down or operation may not be accepted depending the settings of your network. Should this happen, consult your network administrator.

The LCD monitor may not respond if its buttons are repeatedly pressed in rapid intervals. Should this happen, wait a moment and repeat. If you still can't get a response, turn the monitor off and then back on.

Preparation Before Use

Connect the monitor to a commercially available LAN cable before engaging in browser operations.

Operation with a browser that uses a proxy server may not be possible depending on the type of proxy server and the setting method. Although the type of proxy server will be a factor, it is possible that items that have actually been set will not be displayed depending on the effectiveness of the cache, and the contents set from the browser may not be reflected in operation. It is recommended that a proxy server not be used unless it is unavailable.

Handling of the Address for Operation via a Browser

The host name can be used under the following cases:
If the host name corresponding to the IP address of the monitor has been registered to the domain name server (DNS) by the network administrator, you can then access the network settings of the display via that registered host name using a compatible browser.
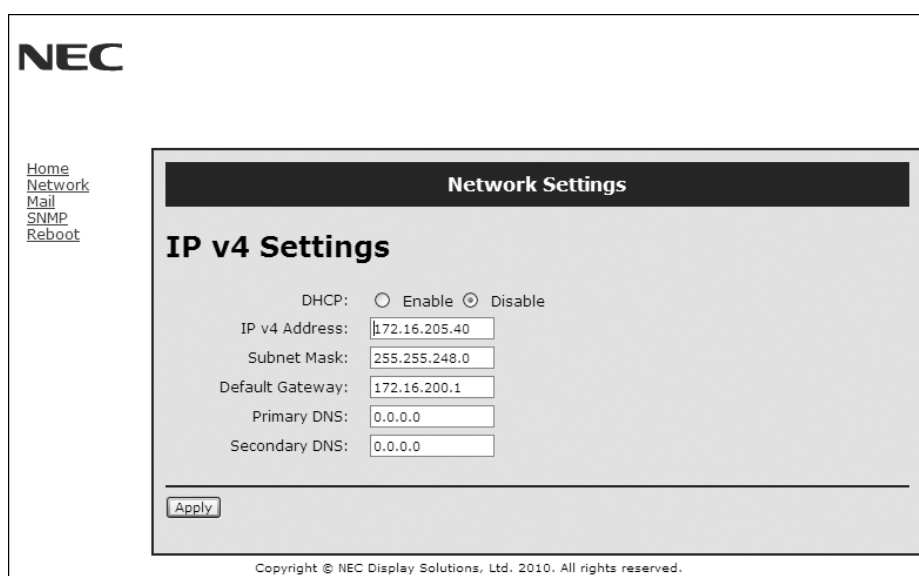If the host name corresponding to the IP address of the monitor has been configured in the "HOSTS" file of the computer being used, you can then access the network settings of the display via that host name using a compatible browser.

Example 1:   When the host name of the monitor has been set to "pd.nec.co.jp", access is gained to the network setting by specifying *http://pd.nec.co.jp/index.html* for the address or the entry column of the URL.

Example 2:   When the IP address of the monitor is "192.168.73.1", access is gained to the mail alert settings by specifying *http://192.168.73.1/index.html* for the address or the entry column of the URL.

Network Settings

http://<the Monitor's IP address> /index.html

DHCP	Enabling this option automatically assigns an IP address to the monitor from your DHCP server. Disabling this option allows you to register the IP address or subnet mask number obtained from your network administrator. NOTE: Consult your network administrator for the IP address when [ENABLE] is selected for [DHCP].
IP v4 Address	Set your IP address of the network connected to the monitor when [DISABLE] is selected for [DHCP].
Subnet Mask	Set your subnet mask number of the network connected to the monitor when [DISABLE] is selected for [DHCP].
Default Gateway	Set your default gateway of the network connected to the monitor when [DISABLE] is selected for [DHCP].
Primary DNS	Set your primary DNS settings of the network connected to the monitor.
Secondary DNS	Set your secondary DNS settings of the network connected to the monitor.
Apply	Reflect your settings. NOTE: Make sure to execute "the reboot" from the "reboot screen" or to turn the monitor off and then back on to enable the changing, after clicking [Apply].

NOTE: The following settings will reset back to the factory setting when "LAN reset" is selected by an EXTERNAL CONTROL of OSD:
[DHCP]: DISABLE, [IP v4 Address]: 192.168.0.10, [Subnet Mask]: 255.255.255.0, [Default Gateway]: 192.168.0.1 but [Primary DNS] and [Secondary DNS] are not changed.

Alert Mail Setting

http://<the Monitor's IP address>/lanconfig.html
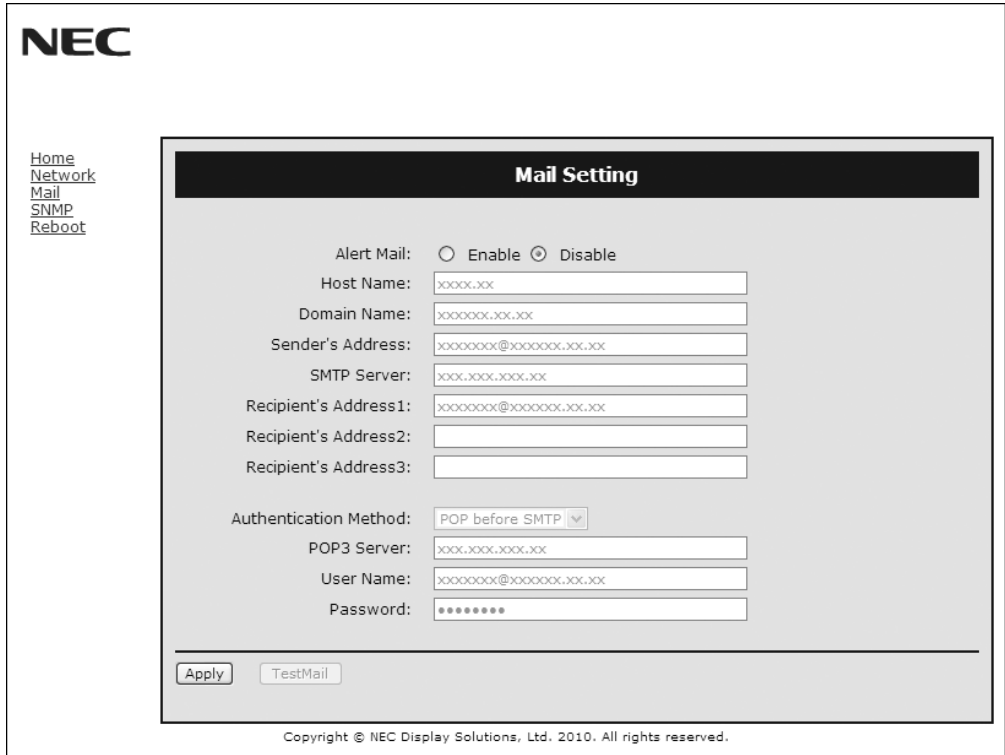
This option notifies your computer of an error message via e-mail when using wired LAN. An error message notification will be sent when an error occurs in the monitor.

Alert Mail	Checking [ENABLE] will turn on the Alert Mail feature. Checking [DISABLE] will turn off the Alert Mail feature.
Host Name	Type in the hostname of the network connected to the monitor. Up to 60 alphanumeric characters can be used.
Domain Name	Type in the domain name of the network connected to the monitor. Up to 60 alphanumeric characters can be used.
Sender's Address	Type in the senders address. Up to 60 alphanumeric and symbols characters can be used.
SMTP Server	Type in the SMTP server name to be connected to the monitor. Up to 60 alphanumeric characters can be used.
Recipient's Address 1 to 3	Type in your recipient's address. Up to 60 alphanumeric and symbols characters can be used.
Authentication Method	This selects the authentication method of the e-mail transmission.
POP3 Server	This specifies the address of the POP3 server that is used in the authentication of the e-mail.
User Name	This sets the user name for logging into the authentication server when authentication is required for the e-mail transmission. Up to 60 alphanumeric characters can be used.
Password	This sets the password for logging into the authentication server when authentication is required for the e-mail transmission. Up to 60 alphanumeric characters can be used.
TestMail	Click this button to send a test mail to check if your settings are correct.
Apply	Click this button to reflect the above settings. NOTE: Make sure to execute "the reboot" from the "reboot screen" or to turn the monitor off and then back on to enable the changing, after clicking [Apply].

NOTE: • If you execute a test, you may not receive an Alert mail.
  Should this happen, check if the network settings are correct.
  • If you entered an incorrect address in a test, you may not receive an Alert mail.
  Should this happen, check if the Recipient's Address is correct.

TIP: The Alert Mail settings will not be affected even when [RESET] is done from the menu.
  For Control command diagram, please see file "External_Control.pdf" on the CD-ROM.

Alert error message list

Error number * ErrorCode	Alert mail Message	Explanation	Measure
70h ~ 7Fh	The monitor's power supply is not functioning normally.	Standby power Abnormal	Please contact your supplier.
80h ~ Fh	The cooling fan has stopped.	Cooling fan Abnormal	Please contact your supplier.
90h ~ 9Fh	The monitor's back light unit is not functioning normally.	Backlight abnormal	Please contact your supplier.
A0h ~ AFh	The monitor is overheated.	Temperature Abnormal	Please contact your supplier.
A2h		SENSOR reached at the temperature that the user had specified. *condition: DISPLAY PROTECTION-FAN CONTROL-COOLING FAN = AUTO	Reconfirm the setting condition from OSD (DISPLAY PROTECTION-FAN CONTROL) or please contact your supplier.
B0h ~ BFh	The monitor doesn't have the input signal.	No signal	Please check "No picture" in "Troubleshooting".
C0h ~ CFh	The monitor caused the problem of the abnormal of option board.	Option board abnormal	Please contact your supplier.

Sample: The following examples are content of Alert Mail that informs the temperature anomaly of monitor.

```
From:    nec-tarou@jp.nec.com
To:      nec-hanako@jp.nec.com
Subject: [Monitor] Monitor Information

The monitor is overheated.
If this continues please contact NEC for support.
    Code               : <ErrorCode>
[Information]
    Product Name       : XXXX
    Serial Number      : 930PT012YA
    Hours Running-ON   : 108 [H]
    Hours Running-Total : 262 [H]
```

Sample: The following examples are content of test mail by browser.

```
From:    nec-tarou@jp.nec.com
To:      nec-hanako@jp.nec.com
Subject: [Monitor] Test Mail

Alert Mail configurations are as follows:

    Product Name        : XXXX
    Serial Number       : 930PT012YA
    Sender's Address    : nec-tarou@jp.nec.com
    SMTP Server Name    : mail.nec.jp.com
    Recipient's Address 1 : nec-hanako@jp.nec.com
    Recipient's Address 2 :
    Recipient's Address 3 :
```

CRESTRON Setting

Click "CRESTRON" on the left side of HOME.
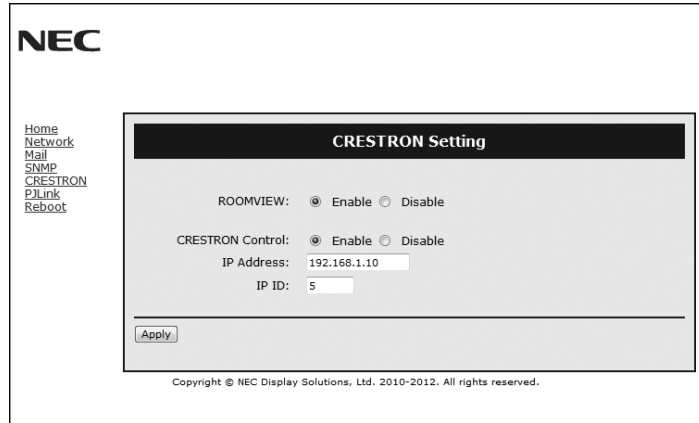
CRESTRON ROOMVIEW compatibility
The monitor supports CRESTRON ROOMVIEW, allowing multiple devices connected in the network to be managed and controlled from a computer or a controller.
For more information, visit http://www.crestron.com

ROOMVIEW	ROOMVIEW for managing from the computer. ON: Enables ROOMVIEW. OFF: Disables ROOMVIEW.
CRESTRON CONTROL	CRESTRON CONTROL for managing from the controller. ON: Enables CRESTRON CONTROL. OFF: Disables CRESTRON CONTROL.
IP ADDRESS	Set your IP address of CRESTRON SERVER.
IP ID	Set your IP ID of CRESTRON SERVER.

TIP: The CRESTRON settings are required only for use with CRESTRON ROOMVIEW.
For more information, visit http://www.crestron.com

PJLink Setting

Click "PJLink" on the left side of HOME.
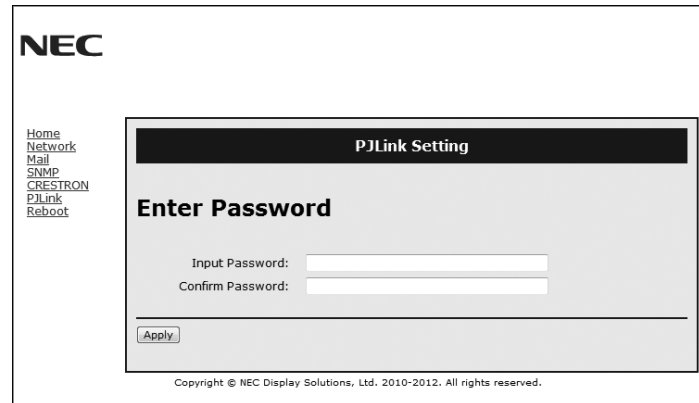
PASSWORD	Set a password for PJLink*. A password must be 32 characters or less. Do not forget your password. However, if you forget your password, consult with your dealer.

*What is PJLink?
PJLink is a standardization of protocol used for controlling devices of different manufacturers. This standard protocol is established by Japan Business Machine and Information System Industries Association (JBMIA) in 2005.
The device supports all the commands of PJLink Class 1.
Setting of PJLink will not be affected even when [RESET] is done from the menu.

Features

Reduced Footprint: Provides the ideal solution for environments with superior image quality.

Color Control Systems: Allow you to adjust the colors on your screen and customize the color accuracy of your monitor to a variety of standards.

OmniColor: Combines Six-axis color control and the sRGB standard. Six-axis color control permits color adjustments via six axes (R, G, B, C, M and Y) rather than through the three axes (R, G and B) previously available. The sRGB standard provides the monitor with a uniform color profile. This assures that the colors displayed on the monitor are exactly the same as on the color printout (with sRGB supporting operating system and sRGB printer). This allows you to adjust the colors on your screen and customise the color accuracy of your monitor to a variety of standards.

sRGB Color Control: A new optimized color management standard which allows for color matching on computer displays and other peripherals. The sRGB standard, which is based on a calibrated color space, allows for optimal color representation and backward compatibility with other common color standards.

OSD (On-Screen-Display) Controls: Allow you to quickly and easily adjust all elements of your screen image via simple to use on-screen menus.

Plug and Play: The Microsoft® solution with the Windows® operating system facilitates setup and installation by allowing the monitor to send its capabilities (such as screen size and resolutions supported) directly to your computer, automatically optimizing display performance.

IPM (Intelligent Power Manager) System: Provides innovative power-saving methods that allow the monitor to shift to a lower power consumption level when on but not in use, saving two-thirds of your monitor energy costs, reducing emissions and lowering the air conditioning costs of the workplace.

FullScan Capability: Allows you to use the entire screen area in most resolutions, significantly expanding image size.

VESA Standard (FDMIv1) Mounting Interface: Allows you to connect your LCD monitor to any VESA standard (FDMIv1) third party mounting arm or bracket. NEC recommends using mounting interface that comply with TÜV-GS and/or UL1678 standard in North America.

DVI-D: The digital-only subset of DVI ratified by the Digital Display Working Group (DDWG) for digital connections between computers and displays. As a digital-only connector, analog support is not provided for a DVI-D connector. As a DVI-based digital only connection, only a simple adapter is necessary for compatibility between DVI-D and other DVI-based digital connectors such as DFP and P&D. The DVI interface of this display supports HDCP.

TILE MATRIX, TILE COMP: Shows one image over multiple screens with accuracy while compensating for bezel width.

ZOOM: Expands/reduces image size for horizontal and vertical direction.

RS-232C daisy chain: You can control the multiple monitors by controller or wireless remote control.

Self-diagnosis: If an internal error should occur, a failure state will be indicated.

HDCP (High-bandwidth Digital Content Protection): HDCP is a system for preventing illegal copying of video data sent over a Digital Visual Interface (DVI). If you are unable to view material via the DVI input, this does not necessarily mean the display is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected with HDCP and might not be displayed due to the decision/intention of the HDCP community (Digital Content Protection, LLC).

Option board slot: You can use an option board. Please contact your supplier for detailed information.

Troubleshooting

No picture
- The signal cable should be completely connected to the display card/computer.
- The display card should be completely seated in its slot.
- Check the main Power Switch, it should be in the ON position.
- Power Switch and computer power switch should be in the ON position.
- Check to make sure that a supported mode has been selected on the display card or system being used. (Please consult display card or system manual to change graphics mode.)
- Check the monitor and your display card with respect to compatibility and recommended settings.
- Check the signal cable connector for bent or pushed-in pins.
- If AUTO STANDBY is ON, the monitor automatically goes into OFF mode 10 minutes after signal is lost. Press the power button.

Power Button does not respond
- Unplug the power cord of the monitor from the AC outlet to turn off and reset the monitor.
- Check the main Power Switch on the back side of the monitor.

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 monitor for as long as the previous image was displayed. For example, if an image was on the monitor for one hour and a residual image remains, the monitor 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 monitor when not in use.

Image is unstable, unfocused or swimming is apparent
- Signal cable should be completely attached to the computer.
- Use the OSD Image Adjust controls to focus and adjust display by increasing or decreasing the fine adjustment. When the display mode is changed, the OSD Image Adjust settings may need to be re-adjusted.
- Check the monitor and your display card with respect to compatibility and recommended signal timings.
- If your text is garbled, change the video mode to non-interlace and use 60Hz refresh rate.

Image of component signal is greenish
- Check to see if the DVD/HD input connector is selected.

LED on monitor is not lit
(no green or red color can be seen)
- Power Switch should be in the ON position and power cord should be connected.
- Check the main Power Switch, it should be in the ON position.
- Make certain the computer is not in a power-saving mode (touch the keyboard or mouse).
- Check to see that the power indicator option in the OSD is set to ON.

RED LED on monitor is blinking
- A certain failure might have occurred, please contact your nearest authorized NEC DISPLAY SOLUTIONS service facility.
- If the monitor is powered off by the inside temperature being higher than the normal operating temperature, a RED LED will blink six times. Power on the display again after confirming the inside temperature has been reduced to normal operation temperature.

Display image is not sized properly
- Use the OSD Image Adjust controls to increase or decrease the coarse adjustment.
- Check to make sure that a supported mode has been selected on the display card or system being used. (Please consult display card or system manual to change graphics mode.)

Selected resolution is not displayed properly
- Use OSD Display Mode to enter Information menu and confirm that the appropriate resolution has been selected. If not, select corresponding option.

No Sound
- Check to see if audio cable is properly connected.
- Check to see if mute is activated.
- Check to see if volume is set at minimum.
- Check to see if computer supports an audio signal through DisplayPort.
  If unsure, contact the computer manufacturer.
- Check to see if SURROUND is ON.
- Check Internal/External speaker switch.

Remote Control is not available
- Check the Remote Control's batteries status.
- Check if batteries are inserted correctly.
- Check if the Remote Control is pointing at the monitor's remote sensor.
- Check the Remote Control Mode status.
- The remote control system may not function when direct sunlight or strong illumination strikes the remote control sensor of the LCD monitor, or when there is an object in the path.

"SCHEDULE"/"OFF TIMER" function is not working properly
- The "SCHEDULE" function will be disabled when the "OFF TIMER" is set.
- If the "OFF TIMER" function is enabled and the power to the LCD monitor is turned off when the power supply is interrupted unexpectedly, then the "OFF TIMER" will be reset.

Snowy Picture, Poor Sound in TV
• Check antenna/cable connection. Use new cable if necessary.

Interference in TV
• Check components for shielding, move away from monitor if necessary.

RS-232C or LAN control is not available
• Check RS-232C or LAN cable connection.
• Check "CONTROL" setting in "EXTERNAL CONTROL".
• Check the "ID=ALL REPLY" setting in "EXTERNAL CONTROL".

The touch panel does not respond
• Make sure that PIP mode is not selected.
• Check the input signal setting.
• Make sure that STANDBY setting in TOUCH PANEL in ADVANCED OPTION is "ON".
• Make sure that PC SOURCE setting in TOUCH PANEL in ADVANCED OPTION is "AUTO".
• Using slot 2 type PC: Make sure the slot 2 type PC is connected properly.
• Using external computer: Make sure the USB cable is connected properly.
• If the STANDBY setting in TOUCH PANEL in ADVANCED OPTION is set to "ON", change it to "OFF" and back to "ON" again.
• When using touch function at the display edge, there may be a slight gap between touch position on the screen and where you touched.
  It is the specification and not a failure of product.

The response of the touch screen is not correct
• Avoid direct sunlight or strong light on the screen.
• If there are some obstacles near the TOUCH screen, it may malfunction.
• Sensor bar module may be dusty or dirty (see page 18, Figure 1), wipe gently with a soft cloth.

The computer's power management does not work
• It is recommended to choose "S1" at the "Power Management" item in the BIOS (abbreviation of Basic Input / Output System) computer's setup screen.

Either light vertical or horizontal stripes may appear, depending on the specific display pattern. This is no product fault or degradation.

Specifications - V552-TM

Product Specifications

LCD Module			55"/138.78 cm diagonal
	Pixel Pitch:		0.630 mm
	Resolution:		1920 x 1080
	Color:		Over 1073 million colors (depending on display card used)
	Brightness:		500 cd/m^2 (Max.) @25°C
	Contrast Ratio:		4000:1
	Viewing Angle:		Left/Right: 88° (typ) @ CR>10, Up/Down: 86° (typ) @ CR>10
Frequency	Horizontal:		15.625/15.734 kHz, 31.5 kHz - 91.1 kHz (Analog Input)
			31.5 kHz - 91.1 kHz (Digital Input)
	Vertical:		50.0 - 85.0 Hz
Pixel Clock			13.5 MHz, 25 MHz - 165 MHz (Analog)
			25 MHz - 165 MHz (Digital)
Viewable Size			1209.6 x 680.4 mm
Input Signal			
	DVI	DVI-D 24pin	Digital RGB	DVI (HDCP)
			VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920X1080 (60Hz), 1080p, 1080i
	DisplayPort	DisplayPort Connector	Digital RGB	DisplayPort Complies with Standard V1.1a, applicable to HDCP V1.3
			VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920x1080 (60 Hz), 1080p, 1080i, 720p@50Hz/60Hz, 576p@50Hz, 480p@60Hz
	VGA	15pin Mini D-sub	Analog RGB	0.7 Vp-p/75 ohm
			VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920X1080 (60Hz)
			Sync	Separate: TTL level (Pos./Neg.)
			Composite sync on Green Video: 0.3 Vp-p Neg.
	RGB/HV*2	BNC (R,G,B,H,V)	Analog RGB	0.7 Vp-p/75 ohm
			VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920X1080 (60Hz)
			Sync	Separate: TTL level (Pos./Neg.)
			Composite sync on Green Video: 0.3 Vp-p Neg.
	HDMI	HDMI Connector	Digital YUV Digital RGB	HDMI
			VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920x1080 (60 Hz), 1080p, 1080i, 720p@50Hz/60Hz, 576p@50Hz, 480p@60Hz, 576i@50Hz, 480i@60Hz
	DVD/HD*2	BNC X 3	Component	Y: 1.0 Vp-p/75ohm, Cb/Cr (Pb/Pr): 0.7 Vp-p/75 ohm
			HDTV/DVD: 1080p, 1080i, 720p@50Hz/60Hz, 576p@50Hz, 480p@60Hz, 576i@50Hz, 480i@60Hz
	VIDEO1 VIDEO2*2	BNC BNC	Composite	1.0 Vp-p/75 ohm
			NTSC/PAL/SECAM/4.43NTSC/PAL60
	S-VIDEO*2	BNC X 2	S-VIDEO	Y: 1.0 Vp-p/75 ohm C: 0.286 Vp-p/75 ohm (NTSC), 0.3 Vp-p/75 ohm (PAL/SECAM)
			NTSC/PAL/SECAM/4.43NTSC/PAL60
Output Signal			
	DVI	DVI-D 24pin	Digital RGB	DVI (HDCP)
AUDIO			
	AUDIO Input	STEREO Mini Jack	Analog Audio	Stereo L/R 0.5 Vrms
		HDMI Connector	Digital Audio	PCM 32, 44.1, 48 KHz (16/20/24bit)
		DisplayPort Connector	Digital Audio	PCM 32, 44.1, 48 KHz (16/20/24bit)
	AUDIO Output	STEREO Mini Jack	Analog Audio	Stereo L/R 0.5 Vrms
Speaker Output			External Speaker Jack 15 W + 15 W (8 ohm)
			Internal Speaker 10W + 10W
Control	RS-232C In:		9 Pin D-sub
	RS-232C Out:		9 Pin D-sub (with daisy chain)
	LAN:		RJ-45 10/100 BASE-T
	Remote IN:		Stereo Mini jack 3.5 φ
Power Supply			2.7 - 1.1 A @ 100-240V AC, 50/60Hz
Operational Environment	Temperature*3:		0 - 35°C / 32 - 95°F
	Humidity:		20 - 80% (without condensation)
	Altitude:		0 - 3000 m (Brightness may decrease with altitude)
Storage Environment	Temperature:		-20 - 60°C / -4 - 140°F
	Humidity:		10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C
Dimension			1294.4 (W) x 765.2 (H) x 93.9 (D) mm / 51.0 (W) x 30.1 (H) x 3.7 (D) inches (with handle)
Weight			40.8 kg (90.0 lbs)
Detection method			IR scanning method
Operating system			Windows 7, Windows Vista, Windows XP
Multi-touch			More than 2 touches with Windows 7 (limited accuracy)
PC connector			USB V2.0
Protective glass	Material:		Full-tempered glass
	Thickness:		4.0 mm
	Surface treatment:		Anti-Reflective coating (both inside and outside)
	Transparency:		More than 96%
	Reflection rate:		≤ 2%
	Surface hardness:		8 H
	Impact resistance*4:		130 cm
VESA compatible mounting interface			300 mm x 300 mm (M6, 4 Holes)
Power Management			VESA DPM
Plug & Play			VESA DDC2B, DDC/CI, DisplayPort
Power supply for Slot 2 type OPTION			16V/3.8 A
Accessories			Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 3, Screw x 3, Thumbscrew for optional stand x 2, CD-ROM, USB cable

NOTE: Technical specifications are subject to change without notice.

*1: Compressed image.
*2: Common terminal.
*3: When you use option board accessories, please contact your supplier for detailed information.
*4: The distance of a steel ball (weight: 500 g) in one free fall without breaking.

English-44

Specifications - V801-TM

Product Specifications

LCD Module			80"/203.22 cm diagonal
	Pixel Pitch:		0.9225 mm
	Resolution:		1920 x 1080
	Color:		Over 1073 million colors (depending on display card used)
	Brightness:		410 cd/m^2 (Max.) @25°C
	Contrast Ratio:		5000:1
	Viewing Angle:		Left/Right: 88° (typ) @ CR>10, Up/Down: 86° (typ) @ CR>10
Frequency	Horizontal:		15.625/15.734 kHz, 31.5 kHz - 91.1 kHz (Analog Input)
			31.5 kHz - 91.1 kHz (Digital Input)
	Vertical:		50.0 - 85.0 Hz
Pixel Clock			13.5 MHz, 25 MHz - 165 MHz (Analog)
			25 MHz - 165 MHz (Digital)
Viewable Size			1771.2 x 996.3 mm
Input Signal			
	DVI	DVI-D 24pin	Digital RGB	DVI (HDCP)
			VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920X1080 (60Hz), 1080p, 1080i
	DisplayPort	DisplayPort Connector	Digital RGB	DisplayPort Complies with Standard V1.1a, applicable to HDCP V1.3
				VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920x1080 (60 Hz), 1080p, 1080i,
				720p@50Hz/60Hz, 576p@50Hz, 480p@60Hz
	VGA	15pin Mini D-sub	Analog RGB	0.7 Vp-p/75 ohm
				VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920X1080 (60Hz)
			Sync	Separate: TTL level (Pos./Neg.)
				Composite sync on Green Video: 0.3 Vp-p Neg.
	RGB/HV*2	BNC (R,G,B,H,V)	Analog RGB	0.7 Vp-p/75 ohm
				VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920X1080 (60Hz)
			Sync	Separate: TTL level (Pos./Neg.)
				Composite sync on Green Video: 0.3 Vp-p Neg.
	HDMI	HDMI Connector	Digital YUV Digital RGB	HDMI
				VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920x1080 (60 Hz), 1080p, 1080i,
				720p@50Hz/60Hz, 576p@50Hz, 480p@60Hz, 576i@50Hz, 480i@60Hz
	DVD/HD*2	BNC X 3	Component	Y: 1.0 Vp-p/75ohm, Cb/Cr (Pb/Pr): 0.7 Vp-p/75 ohm
				HDTV/DVD: 1080p, 1080i, 720p@50Hz/60Hz, 576p@50Hz, 480p@60Hz, 576i@50Hz, 480i@60Hz
	VIDEO1 VIDEO2*2	BNC BNC	Composite	1.0 Vp-p/75 ohm
				NTSC/PAL/SECAM/4.43NTSC/PAL60
	S-VIDEO*2	BNC X 2	S-VIDEO	Y: 1.0 Vp-p/75 ohm C: 0.286 Vp-p/75 ohm (NTSC), 0.3 Vp-p/75 ohm (PAL/SECAM)
				NTSC/PAL/SECAM/4.43NTSC/PAL60
Output Signal			
	DVI	DVI-D 24pin	Digital RGB	DVI (HDCP)
AUDIO			
	AUDIO Input	STEREO Mini Jack	Analog Audio	Stereo L/R 0.5 Vrms
		HDMI Connector	Digital Audio	PCM 32, 44.1, 48 KHz (16/20/24bit)
		DisplayPort Connector	Digital Audio	PCM 32, 44.1, 48 KHz (16/20/24bit)
	AUDIO Output	STEREO Mini Jack	Analog Audio	Stereo L/R 0.5 Vrms
Speaker Output			External Speaker Jack 15 W + 15 W (8 ohm)
			Internal Speaker 10W + 10W
Control	RS-232C In:		9 Pin D-sub
	RS-232C Out:		9 Pin D-sub (with daisy chain)
	LAN:		RJ-45 10/100 BASE-T
	Remote IN:		Stereo Mini jack 3.5 φ
Power Supply			5.0 - 2.0 A @ 100-240V AC, 50/60Hz
Operational Environment	Temperature*3:		0 - 35°C / 32 - 95°F
	Humidity:		20 - 80% (without condensation)
	Altitude:		0 - 3000 m (Brightness may decrease with altitude)
Storage Environment	Temperature:		-20 - 60°C / -4 - 140°F
	Humidity:		10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C
Dimension			1842.8 (W) x 1067.9 (H) x 107.3 (D) mm / 72.6 (W) x 42.0 (H) x 4.2 (D) inches
Weight			79.9 kg (176.2 lbs)
Detection method			IR scanning method
Operating system			Windows 7, Windows Vista, Windows XP
Multi-touch			More than 2 touches with Windows 7 (limited accuracy)
PC connector			USB V2.0
Protective glass	Material:		Chemically-tempered glass
	Thickness:		3.0 mm
	Surface treatment:		Anti-Reflective coating and Anti-Fingerprint coating (outside), Anti-Reflective film (inside)
	Transparency:		More than 90%
	Reflection rate:		≤ 4%
	Surface hardness:		6 H
	Impact resistance*4:		130 cm
VESA compatible mounting interface			400 mm x 400 mm (M8, 4 Holes)
Power Management			VESA DPM
Plug & Play			VESA DDC2B, DDC/CI, DisplayPort
Power supply for Slot 2 type OPTION			16V/3.8 A
Accessories			Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 1,
			Screw x 1, CD-ROM, USB cable

NOTE: Technical specifications are subject to change without notice.

*1: Compressed image.
*2: Common terminal.
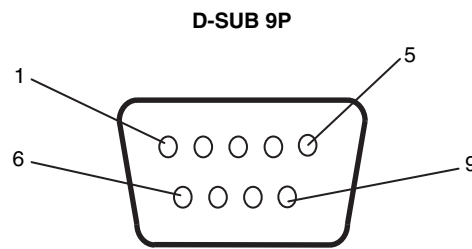*3: When you use option board accessories, please contact your supplier for detailed information.
*4: The distance of a steel ball (weight: 500 g) in one free fall without breaking.

Pin Assignment

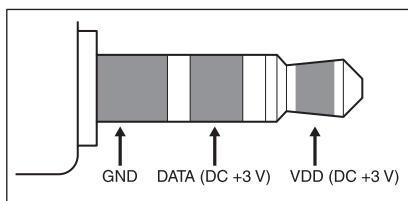1) RS-232C input/output

Pin No	Name
1	NC
2	RXD
3	TXD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

D-SUB 9P

This LCD monitor uses RXD, TXD and GND lines for RS-232C control.

2) REMOTE IN

GND   DATA (DC +3 V)   VDD (DC +3 V)

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 monitor features an advanced energy saving capability. When a Display Power Management signal is sent to the monitor, the Energy Saving mode is activated. The monitor enters a single Energy Saving mode.

Mode	Power consumption	LED colour
Normal Operation*1, *3	Approx. 100 W (V552-TM) 230 W (V801-TM)	Green
Energy Saving Mode (POWER SAVE)	Less than 2 W	Amber
Energy Saving Mode*1, *2 (AUTO STANDBY)	Less than 0.5 W	Red
Power Off	Less than 0.5 W	Red

*1: without any option, with factory settings.
*2: VGA input only.
*3: Depends on destination.

For additional information visit:

http://www.necdisplay.com/ (in USA)

http://www.nec-display-solutions.com/ (in Europe)

http://www.nec-display.com/global/index.html (Global)

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.

For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation.

According the EU directive 2006/66/EC, the battery can't be disposed improperly. The battery shall be separated to collect by local service.