

# **User's Manual**

# MultiSync V552 MultiSync V652

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# **DECLARATION OF CONFORMITY**

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

	U.S. Responsible Party: Address: Tel. No.:	500 Park E	ay Solutions of America, Inc. Boulevard, Suite 1100 nois 60143 3000
	Type of Product:	Dis	play Monitor
	Equipment Classific	ation: Cla	ass B Peripheral
	Model:		ltiSync V552 (V552) ltiSync V652 (V652)
(		1	ipment specified above is specified in the FCC Rules.

conforms to the technical standards as specified in the FCC Rules.

#### **Canadian Department of Communications Compliance Statement**

DOC: CAN ICES-3(B)/NMB-3(B)

C-UL: Bears the C-UL Mark and is in compliance with Canadian Safety Regulations according to CAN/CSA C22.2 No. 60950-1.

#### **FCC** Information

- 1. Use the attached specified cables with the MultiSync V552 (V552)/MultiSync V652 (V652) colour monitor so as not to interfere with radio and television reception.
  - (1) Please use the supplied power cord or equivalent to ensure FCC compliance.
  - (2) Please use the supplied shielded video signal cable, DVI-D to DVI-D cable.
- 2. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult your dealer or an experienced radio/TV technician for help.

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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# **Important Information**



# WARNING

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

REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Â	
CAUTI	ON: TO REDUCE THE RISK OF ELECTRIC SHOCK, MAKE SURE POWER CORD IS UNPLUGGED FROM WALL SOCKET. TO FULLY DISENGAGE THE POWER TO THE UNIT, PLEASE DISCONNECT THE POWER CORD FROM THE AC OUTLET. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	This symbol warns user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside this unit.
	This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

**CAUTION:** Please use the power cord provided with this 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			Soul	- Car	
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.

# 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<sup>2</sup> 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.

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 LCD Panel**

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

<sup>\*</sup> The product you purchased may not have this feature.

# Contents

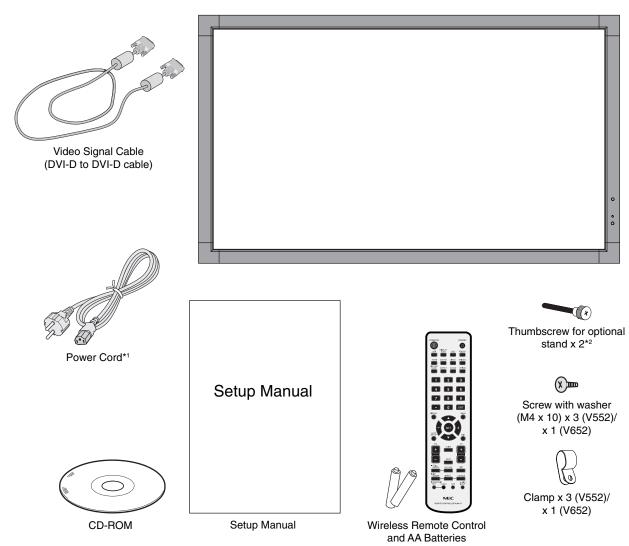
Your new MultiSync monitor box\* should contain the following:

- LCD monitor
- Power cord<sup>\*1</sup>
- Video Signal Cable
- Wireless Remote Control and AA Batteries
- Setup Manual
- CD-ROM

Clamp x 3 (V552)/ x 1 (V652)

•

- Screw with washer (M4 x 10) x 3 (V552)/ x 1 (V652)
- Thumbscrew for optional stand x 2\*2



\* 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 only.

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.

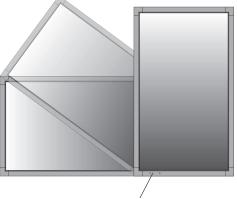
# Please note the following when mounting

#### 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: NEC strongly Mountina Unit No gap recommends using size Bracket M6 screws (10-12 mm + No thr Washers 4.5 mm (V552) thickness of bracket 5 mm (V652) and washers in under φ 8.5 mm (V552) under φ 10.0 mm (V652) Screw length). If using screws longer than 10-12 mm, 10-12 mm (V552) 15-17 mm (V652) Thickness check the depth of the hole. of bracket and washers (Recommended Fasten Force: 470 - 635N•cm) Bracket hole should be under φ 8.5 mm.
- V652: 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.

### 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

#### **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

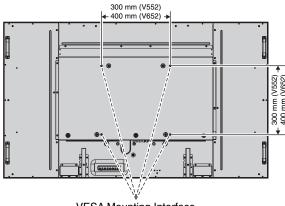
- Periodically check for loose screws, gaps, distortions, or other problems that may occur with the mounting apparatus. If a problem is detected, please refer to qualified personnel for service.
- Regularly check the mounting location for signs of damage or weakness that may occur over time.

# **Attaching Mounting Accessories**

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

### 1. Attach Mounting Accessories

Be careful to avoid tipping monitor when attaching accessories.



VESA Mounting Interface

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.

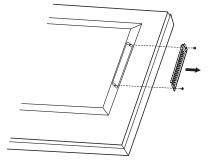
When using mounting accessories other than NEC compliant and approved, they must comply with the VESA-compatible mounting method.

- **NOTE:** Do not leave the monitor in the face-up or facedown 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.





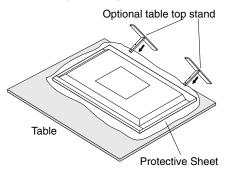
# 3. Installing and removing optional table top stand

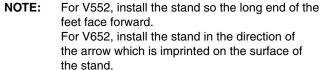
**CAUTION:** Installing and removing the stand must be done by two or more people for V552, by four or more people for V652.

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

**NOTE:** For V552, use ONLY thumbscrews which are included in the monitor. For V652, 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.

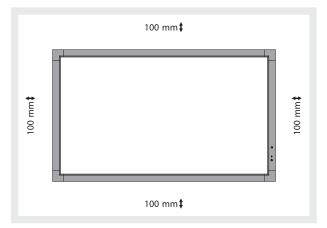




Use the ST-4620 for the V552 and the ST-651 for the V652.

# 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.

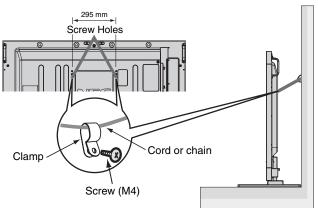
**NOTE:** The sound quality of the internal speakers will differ according to the acoustics of the room.

# 5. Prevent Tipping

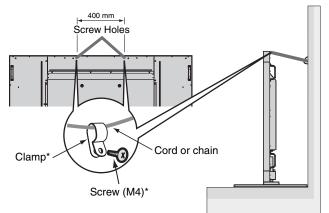
When using the display with the optional table top stand fasten the LCD to a wall using a cord or chain that can support the weight of the monitor in order to prevent the monitor from falling. Fasten the cord or chain to the monitor using the provided clamps and screws.

For the V652, the clamps and screws are included with the optional table top stand.

#### V552



V652



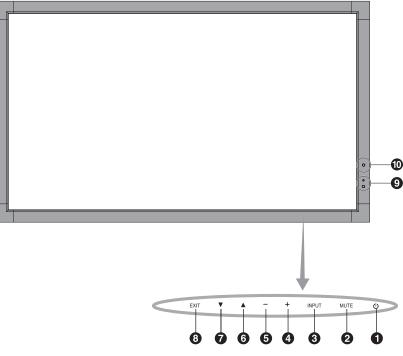
\*: included in option stand.

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.

# **Parts Name and Functions**

# **Control Panel**



# POWER button

Switches the power on/off. See also page 17.

### 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  $\blacktriangle$  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  $\checkmark$  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 12. 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 24), LED will not light when the LCD monitor is in active mode.

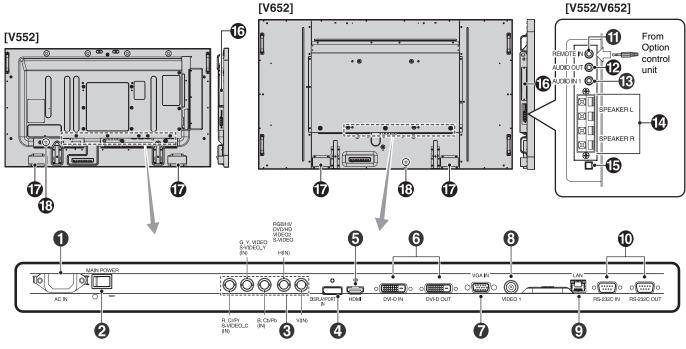
# **D** AMBIENT LIGHT SENSOR

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 19.

#### **Control Key Lock Mode**

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

# **Terminal Panel**



#### AC IN connector

Connects with the supplied power cord.

#### 2 Main Power Switch

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

#### **3** 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.

#### **4** DISPLAYPORT connector

To input DisplayPort signals.

#### **5** HDMI connector

To input digital HDMI signals.

#### 6 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 either DVI IN

or HDMI connection.

#### VGA IN (mini D-Sub 15 pin)

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

#### **8** VIDEO1 IN connector (BNC)

To input a composite video signal.

#### **9** LAN port (RJ-45)

LAN connection. See page 33.

### D 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.

### REMOTE IN (Black)

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

NOTE: Do not use this connector unless specified.

#### AUDIO OUT (Blue)

To output the audio signal from the AUDIO IN 1, DPORT and HDMI to an external device (stereo receiver, amplifier, etc.).

#### B AUDIO IN 1 (Blue)

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

#### A 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.

#### 15 Internal/External speaker switch

Switch to turn internal speaker/external speaker.

L : Internal speaker \_ \_ : External speaker.

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

#### Option board slot

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

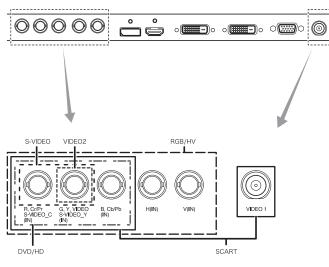
**NOTE:** Please contact your supplier for available option board.



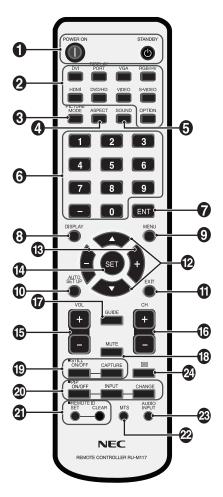
# B Kensington Lock

For security and theft prevention.

\* BNC input signal



# **Wireless Remote Control**



# POWER button

Switches the power on/standby.

# **2** 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

# **3** PICTURE MODE button

Selects picture mode, [HIGHBRIGHT], [STANDARD], [sRGB], [CINEMA], [AMBIENT1], [AMBIENT2]. See page 19.

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 19.

# ASPECT button

Selects picture aspect, [FULL], [WIDE], [DYNAMIC], [1:1], [ZOOM] and [NORMAL]. See page 18.

### **5** SOUND button

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

# 6 KEYPAD

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

### ENT button\*2

#### 8 DISPLAY button

Turns on/off the information OSD. See page 19.

### 9 MENU button

Turns on/off the menu mode.

### **O** AUTO SETUP button

Enters auto setup menu. See page 21.

### EXIT button

Returns to previous menu within OSD menu.

### **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.

#### B MINUS/PLUS (-/+) button

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

#### SET button

Makes selection.

#### **1** VOLUME UP/DOWN button

Increases or decreases audio output level.

- CH UP/DOWN button\*2
- GUIDE button\*2

#### **B** MUTE button

Turns on/off mute function.

#### 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 23.

**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
	DVI	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	DPORT	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	VGA	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
picture	RGB/HV	Yes	Yes	No	No	Yes	No	No	Yes	No	No
ict	HDMI	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Ŀ,	DVD/HD	Yes	Yes	Yes	No	Yes	No	No	Yes	No	No
Main	SCART	Yes	Yes	Yes	No	Yes	No	No	No	No	No
	VIDEO1	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
	VIDEO2	Yes	Yes	Yes	No	Yes	No	No	No	No	No
	S-VIDEO	Yes	Yes	Yes	No	Yes	No	No	No	No	No

# **REMOTE ID button**

Activates REMOTE ID function.

#### 22 MTS button\*2

#### AUDIO INPUT button

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

#### 24 E button

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

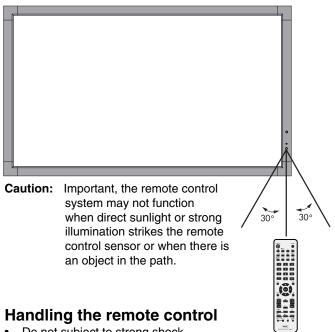
\*1: The product you purchased may not have this feature.

\*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.).



#### 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.

#### 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, BY FOUR OR MORE PEOPLE FOR V652. 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

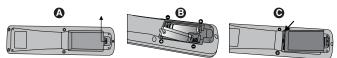
temperature is lower than normal operating temperature for cooling option board. If the LCD becomes overheated while the cooling fan is running, a "Caution" warning will appear. If the "Caution" warning appears, discontinue use and allow the unit to cool. Using the cooling fan will reduce the likelihood 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 25). 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 25).

**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:

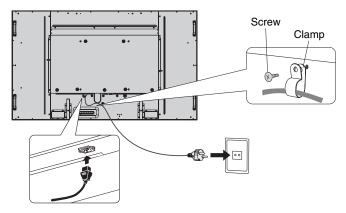
- Place "AA" size batteries matching the (+) and (-) signs on each battery to the (+) and (-) signs of the battery compartment.
- Do not mix battery brands.
- Do not combine new and old batteries. This can shorten battery life or cause liquid leakage of batteries.
- Remove dead batteries immediately 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 15 and 16)

- 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.



# 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 21 and 22)

Make adjustments of the screen display position when necessary.

# 9. Adjust the image (See page 21)

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 25) "DATE & TIME", "SCHEDULE SETTINGS" (See page 22). It is recommended that the "FAN CONTROL" setting (See page 25) be turned to ON also.

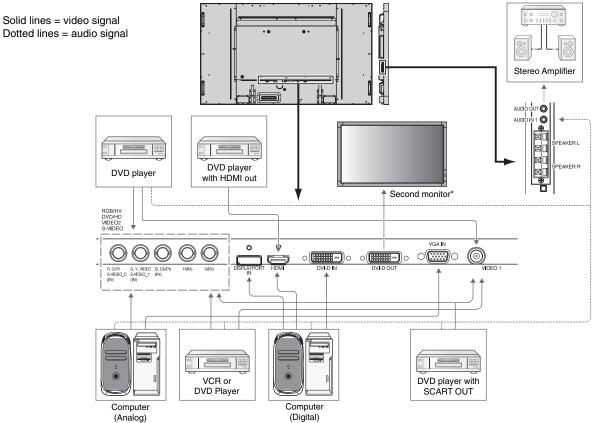
# Connections

- **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



\*: 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
	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
AV	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
	VGA (D-Sub)	-	VGA	AUDIO IN1	VGA
	DVI (DVI-D)	DVI MODE: DVI-PC	DVI	AUDIO IN1	DVI
PC	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 video 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.

Resolution	Scanning	frequency	Remarks
Resolution	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

#### <Typical factory preset signal timing>

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 video cards or drivers may not display an image correctly.

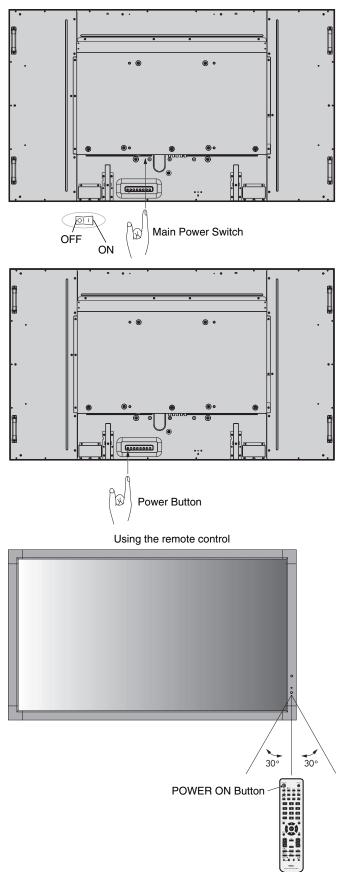
### **Connecting a Computer with DisplayPort**

- 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.

# **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 on the front of the LCD.



# **Power Indicator**

Mode	Status Indicator Light
Power ON	Green*1
Power OFF	Red
Power consumption under 0.5 W	
Power Save	Amber
Power consumption under 1 W*2	
Power Standby when "SCHEDULE SETTINGS" enabled	Green and Amber blink alternately
Diagnosis (Detecting failure)	Red Blinking (See <b>Troubleshooting</b> page 38)
*1 If "OFF" is selected in POWER INDICAT LCD monitor is in active mode. *2 Without any option, with factory settings,	OR (page 24), the LED will not light when the VGA input only.

2 Without any option, with factory settings, VCA 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 "ON" 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 video card used, this function may not operate.
- **NOTE:** It takes about 10 minutes for the monitor to go into power management mode when using DVD/HD, SCART, VIDEO1, VIDEO2 and S-VIDEO.

# Selecting a video source

#### To view a video source:

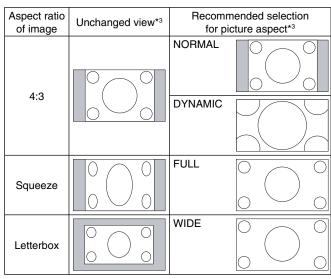
Use the input button to set [VIDEO1], [VIDEO2], [S-VIDEO].

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  $\rightarrow$  1:1  $\rightarrow$  ZOOM  $\rightarrow$  NORMAL

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



\*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.

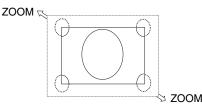
WIDE: Expands a 16:9 letter box signal to fill entire screen.

**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.

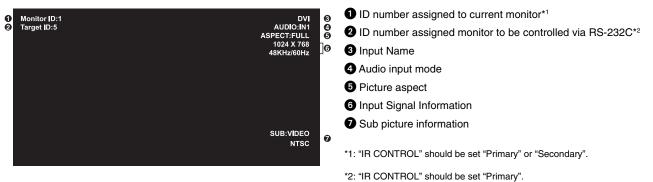
#### ZOOM

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



# **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.



# **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.

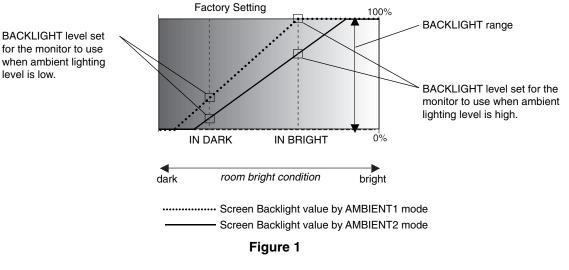
#### **AMBIENT** parameter setting

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.

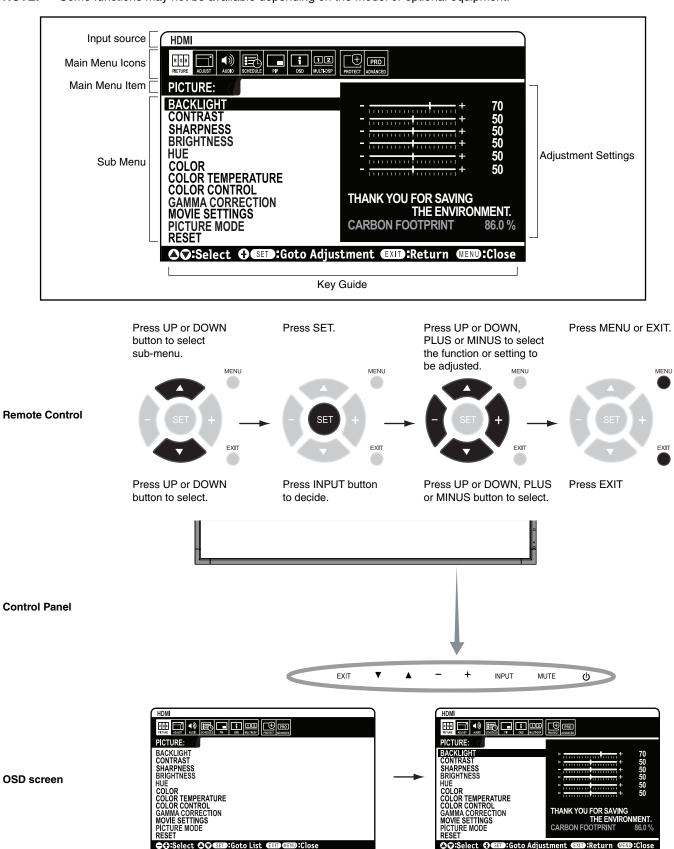
IN DARK: This is the level of backlight that the monitor will go down to when the ambient light level is low.

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



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.

Setting PICTURE		Default
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.	70
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
NATIVE	Gamma correction is handled by the LCD panel.	setting)
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 VIDE01, VIDE02, S-VIDE0 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 19.	STANDARD
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.	-
	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.	-
VGA, RGB/HV inputs only	These to half ow the width of the initiage of the fold.	

\*: depends on signal input

	A director the head-and a large of the large of	
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 beyond the active display area. The image which is outside of active display area is not shown.	-
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
AUDIO INPUT	Selects audio input source [IN1], [DPORT], [HDMI], [OPTION]*.	Depend on signal input
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.	-
SCHEDULE LIST	List of schedules.	-
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 28.	
YEAR	Configures the year for the real time clock.	-
1 /		
MONTH	Configures the month for the real-time clock.	-

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

TIME	Configures the time for the real-time clock.	_
DAYLIGHT SAVING		OFF
RESET	Configures daylight savings on or off. 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 18.	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
ENGLISH		(Depends on destination)
DEUTSCH		
FRANÇAIS		
ITALIANO		
ESPAÑOL		
SVENSKA		
РУССКИЙ		
中文		
	Turns off the OSD after a period of inactivity. The preset choices are 10-240 seconds.	30 Sec.
OSD POSITION	Determines the location where the OSD appears on the screen.	X = 128, Y = 225
		A - 120, T = 220
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 remote controller.	
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.	
LOCK	Prevents the monitor from being controlled by the wireless remote controller. To return to normal operation, press the "DISPLAY" button on the remote controller for 5 seconds.	
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.	
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 PROTECT	ION	
POWER SAVE	Sets how long the monitor waits to go into power save mode after the signal is lost. Note: When connecting DVI, the video 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.	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 Press + button, the bar will become lighter. Press - button, the bar will become darker.		15
AUTO BRIGHTNESS 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     Allows the security password to be changed.       CHANGE SECURITY     The factory preset password is 0000.		-
SECURITY Locks the security password.		OFF
DDC/CI ENABLE/DISABLE: Turns ON or OFF the two way communication and control of the monitor.		ENABLE
LERT MAIL	LERT MAIL Selects whether or not to send an e-mail notification of monitor error via wired LAN.	
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.		-

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	DVD/HD, SCART, VIDEO1, VIDEO2 or S-VIDEO inputs will have priority over DVI, VGA, RGB/HV. When DVD/HD, SCART, VIDEO1, VIDEO2 or S-VIDEO input signal is present the monitor will change and keep to the 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.	
NPUT 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
FERMINAL 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 /IDE01, VIDE02, S-VIDE0 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 HOMI, 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
0	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.		
0	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".		
OPTI	ION 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.	-
0	PTION POWER	Allow the monitor to supply power to Option board slot during power save mode or standby mode.	OFF
A	UDIO	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
IN	ITERNAL 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.	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
120H	Z (not adjustable)		-
TOU	CH PANEL (not adjustable)		-
RESI	ET	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.	-
FACT	TORY RESET	Resets OSD options back to factory settings EXCEPT FOR: PICTURE MODE, VOLUME, SCHEDULE SETTINGS, DATE & TIME, ASPECT in PIP, SUB INPUT in PIP, LANGUAGE, LAN SETTING, TILE MATRIX MEM, OSD ROTATION, CHANGE SECURITY PASSWORD and SECURITY.	-

English

#### **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.

 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.

	PROTECT ACCUMANTE
SCHEDULE: OFF TIMER SCHEDULE SETTINGS SCHEDULE LIST	(THU) JUN.18.2009 15:38 SETTINGS: •1 •2 •3 •4 •5 •6 •7
DATE & TIME RESET	ON:: OFF:: INPUT: PIC. MODE:
	■ EVERY DAY ■ EVERY WEEK ■ MON ■ TUE ■ WED ■ THU ■ FRI ■ SAT ■ SUN

# **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 24).

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.

#### 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 24). 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.
- 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.

 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 controller, up to 100 individual LCD monitors can be controlled through a daisy chain via RS-232C connection.

#### 1. Connect PC and LCD monitors.

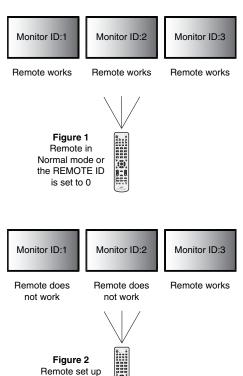
Connect a PC's RS-232C control output to the LCD monitor RS-232C input. You can then connect the RS-232C output from the LCD monitor to another LCD monitor RS-232C input. Up to 100 monitors can be connected using RS-232C.

#### 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.



to use REMOTE

ID:3

# 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 controller 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

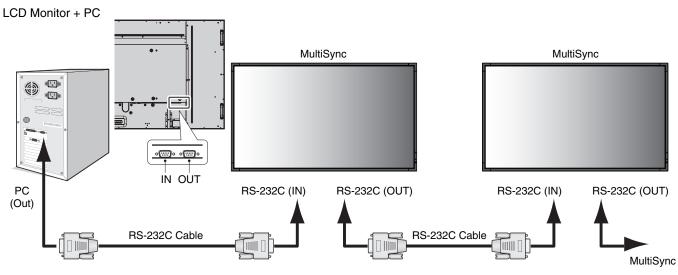
This LCD monitor can be controlled by connecting a personal computer with a RS-232C terminal.

NOTE: When you use this function, EXTERNAL CONTROL should be "RS-232C" (See page 24).

Functions that can be controlled by a personal computer are:

- Power ON or OFF
- Switching between input signals

#### Connection



- **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**

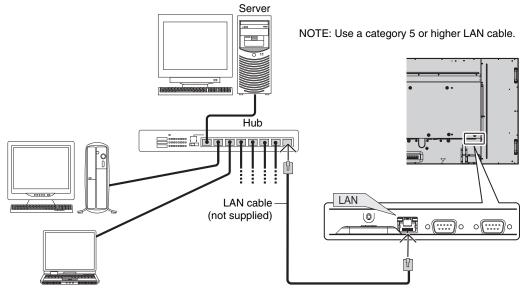
# **Connecting to a Network**

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 24).

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

NEC	
<u>Home</u> <u>Network</u> <u>Mail</u> SNMP Reboot	Network Settings
	IP v4 Settings DHCP: O Enable O Disable IP v4 Address: [172.16.205.40 Subnet Mask: 255.255.248.0 Default Gateway: 172.16.200.1 Primary DNS: 0.0.0 Secondary DNS: 0.0.0
	Apply Copyright © NEC Display Solutions, Ltd. 2010. All rights reserved.

DHCP	<ul> <li>Enabling this option automatically assigns an IP address to the monitor from your DHCP server.</li> <li>Disabling this option allows you to register the IP address or subnet mask number obtained from your network administrator.</li> <li>NOTE: Consult your network administrator for the IP address when [ENABLE] is selected for [DHCP].</li> </ul>	
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

NEC		
<u>Home</u> <u>Network</u>		Mail Setting
<u>Mail</u> <u>SNMP</u> Reboot		
Rebut	Alert Mail:	○ Enable ④ Disable
	Host Name:	xxxx.xx
	Domain Name:	xxxxxxxx
	Sender's Address:	xxxxxx@xxxxxx.xx
	SMTP Server:	XXX.XXX.XXX.XX
	Recipient's Address1:	xxxxxx@xxxxxx.xx
	Recipient's Address2:	
	Recipient's Address3:	
	Authentication Method:	POP before SMTP
	POP3 Server:	XXX.XXX.XXX
	User Name:	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
	Password:	•••••
	Apply TestMail	
	Copyright © NEC Dis	play Solutions, Ltd. 2010. All rights reserved.

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@. To: nec-hanako!	jp.nec.com 0jp.nec.com		
Subject: [Monitor] Monitor Information			
The monitor is overh	eated.		
If this continues pla	ease contact NEC for support.		
Code	: <errorcode></errorcode>		
[Information]			
Product Name	: V652		
Serial Number	: 930PT012YA		
Hours Running-ON	: 108 [H]		
Hours Running-Tot	tal : 262 [H]		

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

From: nec-tarou@jp.r To: nec-hanako@jp Subject: [Monitor] Test	nec.com
Alert Mail configuration	ns are as follows:
SMTP Server Name	: nec-tarou@jp.nec.com : mail.nec.jp.com 1 : nec-hanako@jp.nec.com 2 :

# **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<sup>®</sup> solution with the Windows<sup>®</sup> 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 image size for horizontal and vertical direction.

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

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.
- Front 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.

#### 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 noninterlace 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".

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

# **Specifications - V552**

Pixel Priori         6.80 mm           Presidence         Edge 1.000           Projector         Edge 1.000           Verwig Arry         Edge 1.000           Verwig Arry         Edge 1.000           Statistics         Edge 1.000           Verwig Arry         Edge 1.000           Statistics         Edge 1.000           Vick Clock         Edge 1.000           Vick Clock         Edge 1.000           Vick Clock         Edge 1.000           Vick Clock         Edge 1.000           Vick Or Degin         Digital PGB           Digital PGP         Digital PGB           Digital PGP         Digital PGB           Digital PGB         DV (HOCP)           VGA         15pin Min D-aub           Analog PGB         0.7 Vp-73 dm           Vickao         Stype 1.000           Separate: TL level (Pea.Mag)         Dvp- Neg.           PDM         PDMI         Composite prior Collean Vidao: 0.3 Vp- P Neg.           PDMI         Didgita VCD         Stype 1.000 <td< th=""><th>Proof Plate:         6.830 mm           Proof Plate:         6.830 mm           Proof Plate:         Control (Sepanding on video card used)           Proof Plate:         Plate Plate:           Verwig Anye:         Bit Cry 10 CPL           Verwig Anye:         Signal           DVI         Digital PGB         Digital PGB           Digital PGC         Digital PGB         Digital PGB           Digital PGC         Digital PGB         Cry U-pG2 Sockado, XCAA60, WXCAA60, SXCAA60, UXCAA60', 1920X1080 (60 Hz), 1080p, 10           Digital PGC         Digital PGB         Digital PGB         Cry U-pG2 Sockado, XCAA60, WXCAA60, SXCAA60, UXCAA60', 1920X1080 (60 Hz), 1080p, 10           VGAA         Tigital Mini D-aub         Analog RGB         Cry U-pG2 Sockado, XCAA60, WXCAA60, SXCAA60, UXCAA60', 1920X1080 (60 Hz), 1080p, 10           VGAA         Tigital PGB         Cry U-pG2 Sockado, XCAA60, WXCAA60, SXCAA60, UXCAA60', 1920X1080 (60 Hz), 1080p, 10           VGAA         Sync         Separate: TLievel (Pea, Neg.)</th><th>Product Spe _CD Module</th><th></th><th></th><th>54.6"/1387.8 mm diagonal</th></td<>	Proof Plate:         6.830 mm           Proof Plate:         6.830 mm           Proof Plate:         Control (Sepanding on video card used)           Proof Plate:         Plate Plate:           Verwig Anye:         Bit Cry 10 CPL           Verwig Anye:         Signal           DVI         Digital PGB         Digital PGB           Digital PGC         Digital PGB         Digital PGB           Digital PGC         Digital PGB         Cry U-pG2 Sockado, XCAA60, WXCAA60, SXCAA60, UXCAA60', 1920X1080 (60 Hz), 1080p, 10           Digital PGC         Digital PGB         Digital PGB         Cry U-pG2 Sockado, XCAA60, WXCAA60, SXCAA60, UXCAA60', 1920X1080 (60 Hz), 1080p, 10           VGAA         Tigital Mini D-aub         Analog RGB         Cry U-pG2 Sockado, XCAA60, WXCAA60, SXCAA60, UXCAA60', 1920X1080 (60 Hz), 1080p, 10           VGAA         Tigital PGB         Cry U-pG2 Sockado, XCAA60, WXCAA60, SXCAA60, UXCAA60', 1920X1080 (60 Hz), 1080p, 10           VGAA         Sync         Separate: TLievel (Pea, Neg.)	Product Spe _CD Module			54.6"/1387.8 mm diagonal	
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Brightmass:         650 cd/m* (fmax), 350 cd/m* (fmax), 250 cd/m* (fmax), 250 cd/m*         Pd25°C           Vervise Ample:         66° (typ) 6 CR>-10         SE25°C 573 Hzz, 211, Mrz (Dajda Input)           15. Miz. 211, Mrz (Dajda Input)         51. Mrz (Dajda Input)         SE25°C 573 Hzz, 211, Mrz (Dajda Input)           15. Miz. 211, Mrz (Dajda Input)         51. Mrz (Dajda Input)         SE25°C 573 Hzz, 211, Mrz (Dajda Input)           PVI         DVI-D 24pin         Digla Input         DVI (HOCP)           DiglayPort Connector         Digla Input         SE25°C 573 Hzz, 576 Se35 Hzz, 315 Mzz (Mrz Angel Kaller)           VGA         VI-D 24pin         Digla Input         DVI (HOCP)           VGAB         SVGAB0, XGAB0, XGAB0, WKGAB0, SXGAB0, UXGAB0°, 1920x1080 (60 Hz), 1080, 108           720 Hzg/Hzg <str>         720 Hzg/Hzg/Hzg<str>         Separate: T1.Level (Pos.Neg)         Composite synt on Gron Vision: 0.3 Vp.p. Nog.           RGBHV*         BNC (R, G, B, HV)         Analog RGB         7.1 Vp.p.75 shm           VGAB         VGAB0, SVGAB0, XGAB0, XGAB0, WKGAB0, SXGAB0, UXGAB0°, 1202x1080 (60 Hz), 1080p, 108           FVDHD*         BNC (R, G, B, HV)         Analog RGB         7.1 Vp.p.75 shm           VGAB0         VGAB0, SVGAB0, XGAB0, WKGAB0, SXGAB0, UXGAB0°, 1202x1080 (60 Hz), 1080p, 108           FVDHD*         BNC X 3         Composite synt on Gron Voion: 0.3 Vp.p.PG</str></str>	Brightnesse Social Haza Social Haza Soci					
Contrain Ratio:         400:1         1	Verying Angles 21 (vp) is CAs 10           Verying Angles 22 (vp) is CAs 10           Verying Cas 22 (vp) is CAs 10           Verying Cas 22 (vp) is CAs 10           Verying Cas 10					
inequency         Hotsonial:         16.65/15 (73.6 Hz, 21.5 Hz - 91.1 kHz (Analog Input) 30.7 BSO Hz           iver Clock         25.2 MHz - 182.0 MHz           flowable Size         1290.6 x 680.4 mm           ipux Signal         1299.6 x 680.4 mm           ipix Port Complex with Standard V1.1s, applicable to HDCP V1.3 VGA0, SVGA60, XGA60, XGA60, XGA60, XGGA60, XGGA60, UXGA60 <sup>-,</sup> , 1920x1080 (60Hz), 1080, pto 200 polytopic/bit/000.0 SVCA60, XGA60, VXGA60, XGA60, UXGA60 <sup>-,</sup> , 1920x1080 (60Hz)           VGA         15pin Mini D-sub         Analog ROB         0.7 Vp.P73 chm           VGA0         YGA60, XGA60, XGA60, XGA60, XGA60, UXGA60 <sup>-,</sup> , 1920x1080 (60Hz)         Signal           Sync         Separata: T1. level (Piz, Mrsg.)         Composite 11, VVCA60, SCGA60, XGA60, XGA60, XGA60, UXGA60 <sup>-,</sup> , 1920x1080 (60Hz)           FVDHD         HDMI         HDMI Connector         Digital YUV         HDMI           VipDigital ROB         Composite 11, VVCA60, SCGA60, XGA60, XGA60, XGA60, XGA60, XGA60, XGA60, YGA60 <sup>-,,</sup> 1920x1080 (60Hz)           VipDit         Digital XIIIIIIIIIIIIIIIIIIIIIIIIII	equency with a sequency with a sequence of the					
31.5 MFz - 91.1 MFz (Digital Input)           Vertical: 00.0 - 85.0 Hz           Provide Size - 102.0 MFz           Provide Size - 102.0 MFz           DisplayPort Connector           DisplayPort DisplayPort Connector         Digital RGB         Dir (HDCP)           VGA0, SYGA60, XGA60, XGA60, XGA60, XGA60, XGA60, '1, 120X1080 (60Hz), 1080 (104z), 1080 (104z	31.5 kHz - 91.1 kHz (Digital Input)       Vertical: 50.0 - 85.0 Hz       DVI       DVI DVI-D 24pin       Digital PCD       Optimize with analog RGB       Optimize with analog RGB <td colspa<="" td=""><td></td><td></td><td>Viewing Angle:</td><td>89° (typ) @ CR&gt;10</td></td>	<td></td> <td></td> <td>Viewing Angle:</td> <td>89° (typ) @ CR&gt;10</td>			Viewing Angle:	89° (typ) @ CR>10
Verifical:         50.0 + 85.0 H2           Vice Glock         28.2 MH2 : 120.0 MH2           Fiewable Size         120.9 6 x 680.4 mm           put Signal         120.9 6 x 680.4 mm           VI         DVI-D 24pin         Digital RGB         VI (HDCP)           VGA0, SVGA60, XCA60, WCGA60, SXCA60, UXGA60'', 1920x1080 (60H2, 1080p, 108         Digital PGB         Digital PGB           VGA         Topin Min D-sub         Analog RGB         0.7 Vp.P75 ohm         VGA60, SXCA60, WCGA60, SXCA60, UXGA60'', 1920x1080 (60H2)           VGA         Topin Min D-sub         Analog RGB         0.7 Vp.P75 ohm         Composite styre on Green Video: 0.3 Vp.P Neg.           RGBHV**         BNC (R.G.B.H,V)         Analog RGB         0.7 Vp.P75 ohm         Composite styre on Green Video: 0.3 Vp.P Neg.           HDMI         HDMI Connector         Digital RGB         0.7 Vp.P75 ohm         Composite styre on Green Video: 0.3 Vp.P Neg.           IVDH0**         BNC X 3         Composite styre on Green Video: 0.3 Vp.P Neg.         HDMI           VDIED2**         BNC         Composite styre on Green Video: 0.3 Vp.P Neg.         HDMI VDV: 00400, 7020; 950H7; 60H2, 576; 950H2, 400; 96H2, 400; 96H2, 576; 950H2, 400; 97H2           VIDEO2**	sol Clock         25 2 MHz         1208 6 to 680 Hz           evable Size         1209 6 to 680 H mm         1209 6 to 680 H mm           put Signal         1209 6 to 680 A mm         1209 6 to 680 A mm           DIVID 24pin         Digital RBB	requency		Horizontal:		
Notel Clock         25.2 MHz - 162.0 MHz           Terevable Size         1206 5.4 680.4 mm           DVI         DVI-D 24pin         Digital RGB           DVI         DVI-D 24pin         Digital RGB         DVI (HDCP)           DisplayPort         DisplayPort Complex with Standard VI.1st, applicable to HDCP VI.3           VGA0         SYGA60, SYGA60, XGA60, WKGA60, SXGA60, UKGA60 <sup>**</sup> , 1920X1080 (60 Hz), 1080p, 108           VGA0         System Standard VI.1st, applicable to HDCP VI.3           VGA0         SVGA60, XGA60, WKGA60, SXGA60, UXGA60 <sup>**</sup> , 1920X1080 (60 Hz), 1080p, 108           System Standard VI.1st, applicable VI.         Composite system on Green Vision: 0.3 Vp-p Neg.           HDMI         HDMI Connector         Digital RGB         Dr Vp-p75 dim           VGA60, SYGA60, XGA60, WKGA60, SXGA60, UXGA60 <sup>**</sup> , 1920X1080 (60 Hz), 1080p, 108         220p 850Hz06Hz, 576g 850Hz, 480p 86Hz           VDHDV         Digital RGB         System Standard VI.1st, applicable 80Hz           VDHDV         BNC         Composite Into Green Visido: 0.3 Vp-p Ng.           DV	xxii Clock         28.2 MHz - 162.0 MHz           ewable Size         1208 6, 460.4 mm           DVI         DVH-D 24pin         Diglal RGB         DVI (HDCP)           DisplayPort         Diglal Port Connector         Diglal RGB         DVI (HDCP)           VCA60, SVCA60, XCA60, XCA60, XCA60, XCA60, UXGA60 <sup>-1</sup> , 1920X1080 (60 Hz), 1080p, 10         720p 6 50Hz/0Hz, 576p 6 50Hz, 450p 6 60Hz         1920X1080 (60 Hz), 1080p, 10           VGA         15pin Min D-sub         Analog RGB         0.7 Vp-075 onm         VCA60, SVCA60, XCA60, VXCA60, UXGA60 <sup>-1</sup> , 1920X1080 (60 Hz), 1080p, 10           VGA         15pin Min D-sub         Analog RGB         0.7 Vp-075 onm         VCA60, SVCA60, UXGA60, UXGA60 <sup>-1</sup> , 1920X1080 (60 Hz), 1080p, 10           VGA         5ync         Separate: TTL tavel (Pas./Neg)         Separate: TL tavel (Pas./Neg)         1920X1080 (60 Hz), 1080p, 10           VGDEO1         HDMI         Component         V1 p-175 onm         Separate: TL tavel (Pas./Neg)         1920X1080 (60 Hz), 1080p, 100           VDEO1         BNC X 3         Component         V1 0.10 p-175 onm         100 Vp-175 onm         100 Vp-175 onm           VIDEO1         BNC X 2         S-VIDEO         Y. 10 Vp-175 onm         100 Vp-175 onm         101 Vp-175 onm           VIDEO2         BNC X 2         S-VIDEO         Y. 10 Vp-175 onm         100 Vp-175 onm <td></td> <td></td> <td>Vortical</td> <td></td>			Vortical		
fewable Size         1209.6 x 680.4 mm           put Signal         DVI (HDCP)           USplayPort         DisplayPort           DisplayPort         DisplayPort           VGA         15pin Mini D-sub           Amage Signal         DisplayPort Connector           VGA         15pin Mini D-sub           Amage Signal         Or Vp-p75 ohm           VGA         Amage RGB           VGA         Sync           Separate:         TL levol (Poc.Neg.)           Composite Sync         Separate: TL levol (Poc.Neg.)           VGA         Sync         Separate: TL levol (Poc.Neg.)           VGA         Sync         Separate: TL levol (Poc.Neg.)           Composite Sync         Separate: TL levol (Poc.Neg.)         State St	awable Size         129.6 x 680.4 mm           DVI         DVI-D 24pin         Digital R0B         DVI (HDCP)           DigitalyPort         Digital PCB         Digital PCB         Digital PCB         Digital PCB           DigitalyPort         Digital PCB         Digital PCB         Digital PCB         Digital PCB           VGA         15pin Min D-sub         Analog R0B         0.7 Vp.p75 ohm         VGA60, SXGA60, UXGA60, UXGA60, UXGA60', 1920x1080 (60Hz), 1020pt 9047 (200 e50Hz) (200			venicai.		
pvit         DVI-D 24pin         Digital RGB         DVI (D 24pin         Digital RGB           fVV         DVI-D 24pin         Digital RGB         DVI (D CP)           VGA0         Stapsymbol         DisplayPort Complex         Stapsymbol         Stapsymbol           VGA         1spin Mini D-sub         Analog RGB         Or V Pp75 form         VCA60, SVGA0, VCCA0, SVGA0, VCCA0, SVGA0, VCCA0	Dui Signal         DVI (HDC2)           DVI         DVI (HDC2)         DVI (HDC2)           DisplayPort         DisplayPort Connector         Digital RGB         DVI (HDC2)           VGA         DisplayPort Connector         Digital RGB         Duri (HDC2)           VGA         Tspin Mini D-sub         Analog RGB         DisplayPort Connector         Digital RGB           VGA         1spin Mini D-sub         Analog RGB         Or Yup-p75 ofm         Scatable XCA460, WXGA60, SXGA60, UXGA60, 'I.S20X1080 (60Hz)           RGBHV*         BNC (R,G,B,H,W)         Analog RGB         Or Yup-p75 ofm         Composite sync on Green Video: 0.3 Vp-p Neg.           HDMI         HDMI Connector         Digital YCM         Composite sync on Green Video: 0.3 Vp-p Neg.           HDMI         HDMI Connector         Digital YCM         Yu > Up-p75 ofm           VDDO1         BNC X 3         Composite sync on Green Video: 0.3 Vp-p Neg.           DVD/HD**         BNC X 3         Composite sync on Green Video: 0.3 Vp-p Neg.           DVDUHD*         BNC X 3         Composite NT 0.0 Vp-p75 ofm           VIDEO1         BNC X 2         SVHDEO VIDVDTV: DSUB 0.0 (DLP) 1.0 Vp-p75 ofm           VIDEO24         BNC X 2         SVHDEO VIDVDTV: DSUB 0.0 (DLP) 1.0 Vp-p75 ofm           VIDC041         BNC X 2         SVHDE					
DVI         DVI-D 24pin         Digital RGB         DVI-HOCP           DisplayPort         DisplayPort         DisplayPort         DisplayPort         Digital RGB         DVIAG0, SVGA60, XGA60, WXGA60, SXGA60, UXGA60 <sup>-1</sup> , 1920x1080 (60Hz), 1080p, 108           VGA         15pin Mini D-sub         Analog RGB         07 Vp-P75 ohm         VGA60, SVGA60, XGA60, UXGA60 <sup>-1</sup> , 1920x1080 (60Hz), 1080p, 108           VGA         15pin Mini D-sub         Analog RGB         07 Vp-P75 ohm         VGA60, SVGA60, XGA60, UXGA60 <sup>-1</sup> , 1920x1080 (60Hz)           Sync         Separate: TTL level (Pos.Neg.)         Composite Sync Solato, UXGA60 <sup>-1</sup> , 1920x1080 (60Hz)         VGA60, SVGA60, XGA60, UXGA60, SXGA60, UXGA60, '1, 1920x1080 (60Hz)           HDMI         HDMI Connector         Digital RGB         07 Vp-P75 ohm         VGA60, SVGA60, SGA60, UXGA60, SGA60, UXGA60, '1, 1920x1080 (60Hz)           VDHD <sup>+1</sup> BNC X 3         Component         07 Vp-P75 ohm         VGA60, SVGA60, UXGA60, SGA60, UXGA60, SGA60, UXGA60, '1, 1920x1080 (60Hz), 1080p, 108           VDHD <sup>+1</sup> BNC X 3         Component         VGA60, SVGA60, VGA60, SGA60, UXGA60, SGA60, UXGA60, SGA60, UXGA60, SGA60, UXGA60, '1, 1920x1080 (60Hz), 1080p, 108           VDHD <sup>+1</sup> BNC X 3         Composite 1, 0 Vp-P75 ohm         TOCY PF76 ohm           VGA60         SVGA60         SVGA60, SGA60, UXGA60, UXGA60, UXGA60, SGA60, UXGA60, UXGA60, SGA60, UXGA60, SGA60, UXGA60, SGA60, UXGA60, SGA60, U	DVI         DVI-D 24pin         Digital RGB         DVI (HOCP)           VGA60, SYGA60, XGA60, WXGA60, SXGA60, UXGA60 <sup>++</sup> , 1920X1080 (60Hz), 1080p, 10           DisplayPort         DisplayPort Connector         Digital RGB         DisplayPort Complies with Standard V1, 14, applicable to HDCP V1.3           VGA         15pin Mini D-sub         Analog RGB         07, Vp.P75 ofm         VXGA60, SXGA60, UXGA60 <sup>++</sup> , 1920X1080 (60Hz), 1080p, 10           VGA         15pin Mini D-sub         Analog RGB         07, Vp.P75 ofm         VXGA60, SXGA60, UXGA60, SXGA60, UXGA60 <sup>++</sup> , 1920X1080 (60Hz)           VGA0         Symc         Separate: TTL level (Pos.Neg.)         Composite symc on Green Video: 0.3 Vp.P Neg.           HDMI         HDMI connector         Digital RGB         07, Vp.P75 ofm         VXGA60, SXGA60, UXGA60, SXGA60, UXGA60 <sup>++</sup> , 1920X1080 (60Hz)           VDROHD**         BNC X 3         Composite symcon Green Video: 0.3 Vp.P Neg.         Top Port Som           DVUHD**         BNC X 3         Composite Symcon Green Video: 0.3 Vp.P Neg.         Top Port Som           DVDHD**         BNC X 3         Composite Symcon Green Video: 0.3 Vp.P Neg.         Top Port Som           DVIDC0***         BNC X 3         Composite TV/VVD: 1080p, 1080, 720p # SoHz60Hz, 576i # SoHz, 480p # GoHz, 576i # SoHz, 480e # GoHz, 576i # SoHz, 48				1209.6 x 680.4 mm	
Interview         VAA60, SVGA60, VXGA60, VXGA	Image: Control of the section of the secti	nput Signal	1	1		
VGA         VGAe0, SVGAe0, VXGAe0, VXGAe0, VXGAe0 <sup>1</sup> , 1920x1080 (60 Hz), 1080p, 108 720p 650/Hz, 450p 86 Hz, 480p 86 Hz, 576 HZ, 480p 86 Hz, 480p 86 Hz, 480p 86 Hz, 576 HZ, 480p 86 Hz, 480p 86 Hz, 576 HZ, 480P 86 HZ, 576 HZ, 480P 86 HZ, 480P	Vickeb, SVGA60, VXGA60, VXGA60, VXGA60 <sup>*</sup> , 1320x1080 (60 Hz), 1080p, 10           VGA         Ispin Mini D-sub         Analog RGB         0.7 Vp-p75 ohm VGA60, VGA60, VGA60, VGGA60, VGGA60, VGGA60 <sup>*</sup> , 1320x1080 (60Hz)           RGB/HV**         BNC (R,G,B,H,V)         Analog RGB         0.7 Vp-p75 ohm VGA60, VGA60, VGGA60, VGGA60, VGGA60, UGGA60 <sup>**</sup> , 1320x1080 (60Hz)           RGB/HV**         BNC (R,G,B,H,V)         Analog RGB         0.7 Vp-p75 ohm VGA60, VGGA60, VGGA60, VGGA60, VGGA60, UGGA60 <sup>**</sup> , 1320x1080 (60Hz)           HDMI         HDMI Connector         Digital VU         HDMI         HDMI Connector         Digital VU           Jolgta         VGA60, VGGA60, VGGA60, VGGA60, VGGA60, SGGA60, UGGA60 <sup>**</sup> , 1320x1080 (60Hz)         VGA60, VGGA60, VGGA60, VGGA60, UGGA60 <sup>**</sup> , 1320x1080 (60Hz)           VDDO         BNC         Sync         Separate: TTL level (Po:N.Neg.)         Composite sync on Green Video: 0.3 Vp-p Neg.           DVD/HD**         BNC X 3         Component         YI.10 Vp-p75ohm         VGA60, VGGA60, VGGA	DVI	DVI-D 24pin	Digital RGB	DVI (HDCP) VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920X1080 (60Hz), 1080p, 1080	
Image: State	Markan Stress         Stress Stress         Stress	DisplayPort	DisplayPort Connector	Digital RGB	VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920x1080 (60 Hz), 1080p, 1080	
Note:         Note:         Composite sync on Green Video: 0.3 Vp-p Neg.           RGB/HV**         BNC (R,G,B,H,V)         Analog RGB         0.7 Vp-pT5 chm VGA60, SVGA60, XGA60, XGA60, XGA60, XGA60, UXGA60*, 1920X1080 (60Hz)           BND (MICONNECTOR         Digital YUV Digital RGB         DVD         MDMI         Composite sync on Green Video: 0.3 Vp-p Neg.           DVD/HD**         BNC X 3         Composite sync on Green Video: 0.3 Vp-p Neg.         VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*, 1920X1080 (60 Hz), 1080p, 1080           DVD/HD**         BNC X 3         Composite sync on Green Video: 0.3 Vp-p Neg.         VGA60, SVGA60, SVGA60, WXGA60, SXGA60, UXGA60*, 1920X1080 (60 Hz), 1080p, 1080, 1080           VIDEO1*         BNC X 3         Composite sync on Green Video: 0.3 Vp-p 75 ohm         HDTV/DVD: 1080p, 1080, 720 # 50Hz, 60Hz, 480 # 60Hz, 576 # 50Hz, 481 # 50Hz	Image: Composite sync on Green Video: 0.3 Vp-P Neg.           RGB/HV**         BNC (R,G,B,H,V)         Analog RGB         0.7 Vp-p75 ohm VGA60, SVGA60, XGA60, XGA60, UXGA60, UXGA60*, 1920X1080 (60Hz)           HDMI         HDMI Connector         Digital YUV Digital RGB         HDMI VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*, 1920X1080 (60 Hz), 1080p, 100 Z02p#50Hz/60Hz, 576p #50Hz, 480p #60Hz, 576i #50Hz, 480i #60Hz           DVD/HD**         BNC X 3         Composite sync on Green Video: 0.3 Vp-p Neg.           UDEO1         Digital YUV Digital RGB         VDMI YGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*, 1920X1080 (60 Hz), 1080p, 100 Z02p #50Hz/60Hz, 576p #50Hz, 480p #60Hz, 576i #50Hz, 480p #50Hz	VGA	15pin Mini D-sub	Analog RGB		
Image: Section of the sectio	Markan Stress         Markan Stress         VGAéD, SVGA60, XGA60, WCGA60, SXGA60, UXGA60*, 1920X1080 (60Hz)           Sync         Separate: TTL level (Pos/Neg) Composite sync on Green Video: 0.3 Vp-p Neg.         HDMI           HDMI         HDMI Connector         Digital YUV Digital R0B         VGA60, SVGA60, XGA60, WCGA60, SXGA60, UXGA60*, 1920x1080 (60 Hz), 1080p, 10 720 p8 50Hz/60Hz, 576 p8 50Hz, 480 p8 60Hz, 480 p8 60Hz, 576 j8 60Hz, 480 p8 60Hz, 576 j8 50Hz, 480 p8 60Hz, 480 p8 60Hz, 576 j8 50Hz, 480 p8 60Hz, 576 j8 50Hz, 480 p8 60Hz, 480 p8 60Hz, 576 j8 50Hz, 480 p8 60Hz, 480 p8 60Hz, 576 j8 50Hz, 480 p8 50Hz, 480 p8 60Hz, 576 j8 50Hz, 480 p8 52Z, 580 p8 Mt 480 p8 52Z, 50Hz, 480 p8 5			Sync		
Image: Provide constraint of the sync on Green Video: 0.3 Vp-p Neg.           HDMI         HDMI Connector         Digital YQV Digital RGB         MDMI VCA60, SVGA60, XGA60, XGA60, WXGA60, SVGA60, UXGA60*1, 1920x1080 (60 Hz), 1080p, 108 720p #50Hz160Hz, 576p #50Hz, 480p #60Hz, 576p #50Hz, 480p #60Hz, 576i #50Hz, 480p #60Hz, 480p #50Hz, 4	Image: Composite sync on Green Video: 0.3 Vp-p Neg.           HDMI         HDMI Connector         Digital VUP Digital KBB         Composite sync on Green Video: 0.3 Vp-p Neg.           DVD/HD**         BNC X 3         Component         Y1.0 Vp-p75ohm. (V1C)r (PbP): 1.0 Vp-p75ohm. HDTV/DVD: 1080p, 1080p, 720p #50Hz/60Hz, 576p #50Hz, 480p #60Hz, 576i #50Hz, 480p #60Hz         Y1.0 Vp-p75ohm. MTSC/PAL/SECAM/4.43NTSC/PAL60           VIDEO1*//DVD         BNC X 3         S-VIDEO         Y.1.0 Vp-p75 ohm. MTSC/PAL/SECAM/4.43NTSC/PAL60           S-VIDEO*//DVD         BNC X 2         S-VIDEO         Y1.1 Vp-p75 ohm. MTSC/PAL/SECAM/4.43NTSC/PAL60           Jpt         DV1-D 24pin         Digital RGB         DV1 (HDCP)           JDIO         Analog Audio         Stereo L/R 0.5 Vrms         Stereo L/R 0.5 Vrms           JDIO         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)         Stereo L/R 0.5 Vrms           JDioutul         RS-232C 0Lr         9 Pin D-sub         Stereo L/R 0.5 Vrms         Stereo L/R 0.5 Vrms           Stereo Vuput         RS-232C 0Lr         9 Pin D-sub (with daisy chain)         Stereo VIR 0.5 VFm         Stereo VIR 0.5 VFm           Stereo Inni JAA         PD-sub (with daisy chain)         LAH         Stereo VIR 0.5 VFm         Stereo VIR 0.5 VFm           Stereo Inni LAH         9 Pin D-sub         Stereo VIR 0.5 VFOHZ         Stereo VIR 0.5 VFOHZ	RGB/HV*2	BNC (R,G,B,H,V)	Analog RGB		
HDMI         HDMI Connector         Digital YUV Digital RGB         HDMI VGA60, SVGA60, XGA60, WGA60, SVGA60, UKGA60, UKGA60*, 1920x1080 (60 Hz), 1080p, 108 720 e 50Hz, 60Hz, 576 e 50Hz, 430 e 60Hz, 576 e 50Hz, 432 e 60Hz, 43Hz, 43Hz, 43Hz, 43Hz, 45Hz, 45Hz, 45Hz, 45H	HDMI     HDMI Connector     Digital RGB       DVD/HD**     BNC X 3     Component       V10F01**     BNC X 3     Component       V10F02**     BNC X 3     Component       V10F01**     BNC     Component       V10F02**     BNC X 2     S-VIDEO**       SVUDEO**     BNC X 2     S-VIDEO       V10F01**     BNC X 2     S-VIDEO**       SVUDEO**     BNC X 2     S-VIDEO       V10F01**     DV1-D*p75 ohm     NTSC/PAL/SECAM/4.43NTSC/PAL60       SVUDEO**     BNC X 2     S-VIDEO       SV1DEO     V1: 0.Vp-p75 ohm C: 0.286 Vp-p75 ohm (NTSC), 0.3 Vp-p75 ohm (PAL/SECAM/4.43NTSC/PAL60       V1DIO     Digital RGB     DV1 (HDCP)       DIO     Digital 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     RCA (L/R)     Analog Audio     Stereo L/R 0.5 Vrms       Output     External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W       S-232C Out:     9 Pin D-sub (With daisy chain) Late: R2/32 CO 0ut:     9 Pin D-sub (With daisy chain) Late: R2/32 CO 0ut:       Stereo Mini Jack     Internal Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W       S-232C Out:     9 Pin D-sub			Sync		
Image: State	Image: Second	HDMI	HDMI Connector	Digital YUV		
Image: Control of the second secon	HDTV//DVD: 1080p, 1080i, 720p @50Hz/60Hz, 576p @50Hz, 480p@60Hz, 576i@50Hz, 480pZ, 484, 148 KHz (16/20/24bit)           AUDIO Input         STEREO Mini Jack Analog Audio         Stereo L/R 0.5 Vrms           AUDIO Output         RCA (L/R) Analog Audio         Stereo L/R 0.5 Vrms           AUDIO Output         RS-232C In: PS-232C Di: PS-232C Di: PS-232C Di: PS-232C Di: PS-232C Di:         PIn D-sub           RS-232C In: PS-232C Di: PS-232C D				VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920x1080 (60 Hz), 1080p, 1080 720p@50Hz/60Hz, 576p@50Hz, 480p@60Hz, 576i@50Hz, 480i@60Hz	
VIDEO2**         BNC         NTSC/PAL/SECAM/4.43NTSC/PAL60           S-VIDEO**         BNC X 2         S-VIDEO         Y: 1.0 Vp-p/75 ohm (NTSC), 0.3 Vp-p/75 ohm (PAL/SECAM)           Duput Signal         DVI         DVI-D 24pin         Digital RGB         DVI (HDCP)           UDIO         STEREO Mini Jack         Analog Audio         Stereo L/R 0.5 Vrms           Input         STEREO Mini Jack         Analog Audio         Stereo L/R 0.5 Vrms           AUDIO         AUDIO         DRC A (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           AUDIO         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           Stereo URIO         Fereourie         External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker Jack 15 W + 10W         Stereo L/R 0.5 Vrms           Stereo URIO         RS-232 C NU:         9 Pin D-sub (with diago chain) LAN:         RS-232 C NU:         9 Pin D-sub U           Stereo Mini Jack 3.5 Φ         2.7 - 1.1 A @ 100-240V AC, 50/60Hz         2.0 - 0300 m (Brightness may decrease with altitude)           Stereo IVITONMENT         Temperature:         2.0 - 60°C / -4 - 140°F         2.0 - 60°C / -4 - 140°F           Stereo Virtue         Temperature:         2.0 - 60°C / -4 - 140°F         2.0 - 80°C (Without condenestation) / 90% - 3.5% x (Temp - 40°C) regarding	NIDEO2**         BNC         NTSC/PAL/SECAM/4.43NTSC/PAL60           S-VIDEO**         BNC X 2         S-VIDEO         Y: 1.0 Vp-p/75 ohm (NTSC), 0.3 Vp-p/75 ohm (PAL/SECAM)           utput Signal         DVI         DVI-D 24pin         Digital RGB         DVI (HDCP)           JDIO         STEREO Mini Jack         Analog Audio         Stereo L/R 0.5 Vrms           Input         Input         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)           AUDIO Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           Fileman Speaker Jack 15 W + 15 W (8 ohm)         Internal Speaker Jack 15 W + 15 W (8 ohm)           nutrol         RS-232C 0ut:         9 Pin D-sub           Stereo L/R 0.5 Vrms         Stereo L/R 0.5 Vrms           ontrol         RS-232C 0ut:         9 Pin D-sub           RS-232C 0ut:         9 Pin D-sub         RS-232C 0ut:           Stereo L/R 0.5 Vrms         Stereo L/R 0.5 Vrms         Stereo L/R 0.5 Vrms           ontrol         RS-232C 0ut:         9 Pin D-sub         RS-232C 0ut:           Stereo L/R 0.5 Vrms	DVD/HD*2	DVD/HD*2 BNC X 3 Component		HDTV/DVD: 1080p, 1080i, 720p@50Hz/60Hz, 576p@50Hz, 480p@60Hz, 576i@50Hz,	
Image: Signal         Image: Signal         Image: Signal           DVI         DVI-D 24pin         Digital RGB         DVI (HDCP)           UDIO         FTEREO Mini Jack         Analog Audio         Stereo L/R 0.5 Vrms           ADDiO         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)         DVI           AUDIO         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)         DVI           AUDIO         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)         DVI           AUDIO         Analog Audio         Stereo L/R 0.5 Vrms         External Speaker Jack 15 W + 15 W (8 ohm)           peaker Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           stereo L/R 0.5 ZCC Dit         9 Pin D-sub         PS-232C Dit         9 Pin D-sub           RS-232C Dit         9 Pin D-sub         RS-232C Oit         9 Pin D-sub           RS-232C Dit         9 Pin D-sub         RS-232C Oit         9 Pin D-sub (with daisy chain)           LAN         RS-232C Dit         9 Pin D-sub (with daisy chain)         LAN           Stereo Mini Jack 3.5 P         2.7 - 11.4 @ 100-240V AC, 50/60Hz         2.0 - 80° (without condensation)           Attitude         0 - 40°C / 32 - 104°F         2.0 - 80° C (without condensation)           Attitude <t< td=""><td>Intervention         Intervention         Intervention</td><td></td><td colspan="2"></td><td></td></t<>	Intervention					
DVI         DVI-D 24pin         Digital RGB         DVI (HDCP)           UDIO         Analog Audio         Stereo L/R 0.5 Vrms           Input         Analog Audio         Stereo L/R 0.5 Vrms           Input         HDMI Connector         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)           AUDIO Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           ipeaker Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           ipeaker Output         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 Q         9 Pin D-sub (with daisy chain) LAN: RJ-45 10/100 BASE-T Remote IN: Stereo Mini jack 3.5 Q           vower Supply         27 - 1.1 A @ 100-240V AC, 50/60Hz         -0 - 00°C / 32 - 104°F Humidity: 20 - 80% (without condensation)           votarge Environment         Temperature**         -0 - 40°C / 32 - 104°F Humidity: 20 - 80% (without condensation)           vitorage Environment         Temperature**         -0 - 00°C / 34 - 140°F Humidity: 249.7 (W) x 720.5 (H) x 85.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle 1249.7 (W) x 720.5 (H) x 65.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handle)           Veight         26.5 kg (58.4 bs)         300 mm x 300 mm (M6, 4 Holes)           Vower Management         VESA DDC2	DVI         DVI-D 24pin         Digital RGB         DVI (HDCP)           JDIO         Audio         Stereo L/R 0.5 Vrms         Imput           HDMI Connector         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)         Imput           AUDIO Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           AUDIO Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           seaker Output         External Speaker 10W + 10W         Stereo L/R 0.5 Vrms           peaker Output         RS-232C In: RS-232C In: P Pin D-sub (with daisy chain) LAN: RS-232C Out: P Pin D-sub (with daisy chain) LAN: RS-232C Out: P Pin D-sub (with daisy chain) LAN: RS-232C Out: P Pin D-sub (with daisy chain) LAN: Stereo Mini jack 3.5 P           ower Supply         2.7 - 1.1 A @ 100-240V AC, 50/60Hz           ower Supply         2.7 - 1.1 A @ 100-240V AC, 50/60Hz           orage Environment         Temperature* Perational Environment         0 - 40°C / 32 - 104°F           Humidity: 10 - 90% (without condensation) Altitude: 0 - 3000 m (Brightness may decrease with altitude)         0.9% - 3.5% x (Temp - 40°C) regarding over 40°C           mension         1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without condensation) Altitude:         26.5 kg (58.4 lbs)           ESA compatible mountig interface         300 mm x 300 mm (M6, 4 Holes)         200 mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (wi	S-VIDEO*2	BNC X 2	S-VIDEO		
AUDIO       STEREO Mini Jack       Analog Audio       Stereo L/R 0.5 Vrms         AUDIO Input       STEREO Mini Jack       Analog Audio       PCM 32, 44.1, 48 KHz (16/20/24bit)         AUDIO Output       Digital Audio       PCM 32, 44.1, 48 KHz (16/20/24bit)         AUDIO Output       RCA (L/R)       Analog Audio       Stereo L/R 0.5 Vrms         Speaker Output       External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker Jack 15 W + 15 W (8 ohm)       Internal Speaker Jack 15 W + 15 W (8 ohm)         Speaker Output       RS-232C Out LAN:       P In D-sub       9 Pin D-sub (with daisy chain)         RS-232C Out LAN:       RS-232C Out LAN:       P In D-sub (with daisy chain)         RS-232C Out LAN:       RS-232C Out LAN:       P In D-sub (with daisy chain)         RS-232C Out LAN:       P In D-sub (without condensation)         Stereo L/R 0.2 UV AC, 50/60Hz       0 - 40°C / 32 - 104°F         Stereo L/R 0.2 UV AC, 50/60Hz       0 - 300°C Or (-4 - 140°F         Operational Environment       Temperature*       0 - 40°C / 32 - 104°F         Humidity:       20 - 60°C / 4 - 140°F       10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding	DIO       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         DisplayPort Connector       Digital Audio       PCM 32, 44.1, 48 KHz (16/20/24bit)         AUDIO Output       RCA (L/R)       Analog Audio       Stereo L/R 0.5 Vrms         Audio Output       RCA (L/R)       Analog Audio       Stereo L/R 0.5 Vrms         Seaker Output       External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W       Stereo L/R 0.5 Vrms         ontrol       RS-232C Out RS-232C Out P Pin D-sub       9 Pin D-sub       Pin D-sub         RS-232C Out Seaker Output       Stereo Mini jack 3.5 P       Stereo Mini jack 3.5 P         ower Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz       Output         perational Environment       Temperature*: Pumoitik: 20 - 80°C / -4 - 140°F       Output         mension       Temperature: -20 - 60°C / -4 - 140°F       10 - 90% (without condensation) Altitude: -0 - 90°C (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C         t249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)       1249.7 (W) x 720.5 (H) x 63.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         eight       26.5 kg (58.4 lbs)       300 m m x 300 mm (M6, 4 Holes)       2	Dutput Signal				
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)           AUDIO Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           speaker Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           speaker Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           speaker Output         RS-232C In: 9 Pin D-sub         9 Pin D-sub           speaker Jourt LAN: Control         RS-232C Out: 9 Pin D-sub         9 Pin D-sub           speaker Jourt LAN: Control         RS-232C Out: 9 Pin D-sub (with daisy chain) RS-232C Out: 9 Pin D-sub         9 Pin D-sub           speaker Jourt LAN: Control         RS-232C Out: 9 Pin D-sub         9 Pin D-sub           speaker Jourt LAN: RJ-45 10/100 BASE-T Remote IN: Stereo Mini jack 3.5 Ф         9 -00°C / 32 - 104°F           cover Supply         2.7 - 1.1 A @ 100-240V AC, 50/60Hz           Operational Environment         Temperature*: 12.0 - 60°C / 4 - 140°F           Humidity:         2.0 - 60°C / 4 - 140°F           Humidity:         2.0 - 60°C / 4 - 140°F           Humidity:         2.0 + 00°C (Without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C           Sterage Environment         Temperature: 1249.7 (W	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)           AUDIO Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           Peaker Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           peaker Output         RS-232C 0tr.         9 Pin D-sub RS-232C 0tr.         9 Pin D-sub (With daisy chain) LAN: RS-232C 0tr.         9 Pin D-sub RS-232C 0tr.         9 Pin D-sub (With daisy chain) LAN: RS-232C 0tr.         9 Pin D-sub RS-232C 0tr.         9 Pin D-sub (With daisy chain) LAN: RS-232C 0tr.         9 Pin D-sub (With daisy chain) RS-232C 0tr.         9 Pin D-sub (With daisy chain) LAN: RS-220 C0C 7-4 - 140°F         0 Or (C	DVI	DVI-D 24pin	Digital RGB	DVI (HDCP)	
Input         Input <thinput< th="">         Input         <thi< td=""><td>Input         Input         <thinput< th="">         Input         <thi< td=""><td>UDIO</td><td></td><td></td><td></td></thi<></thinput<></td></thi<></thinput<>	Input         Input <thinput< th="">         Input         <thi< td=""><td>UDIO</td><td></td><td></td><td></td></thi<></thinput<>	UDIO				
DisplayPort Connector         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)           AUDIO Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           speaker Output         External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W         External Speaker 10W + 10W           sontrol         RS-232C Dit 9 Pin D-sub RS-232C Out 9 Pin D-sub LAN: RJ-45 10/100 BASE-T Remote IN:         9 Pin D-sub 9 Pin D-sub Vistereo Mini jack 3.5 Φ           Sower Supply         2.7 - 1.1 A @ 100-240V AC, 50/60Hz           Operational Environment         Temperature* United to 0 - 3000 m (Brightness may decrease with altitude)           Autidude         0 - 40°C / 32 - 104°F Humidity: 0 - 3000 m (Brightness may decrease with altitude)           Autrage Environment         Temperature* 1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)           Veight         26.5 kg (58.4 lbs)           TeSA compatible mounting interface         300 mm x 300 mm (M6, 4 Holes)           Veight         VESA DDC/B, DDC/CI, DisplayPort	DisplayPort Connector         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)           AUDIO Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           beaker Output         External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W         Stereo L/R 0.5 Vrms           beaker Output         RS-232C In: RS-232C Out:         9 Pin D-sub (with daisy chain) LAN: RJ-45 10/100 BASE-T Remote IN:         Stereo Mini jack 3.5 Q           bwer Supply         2.7 - 1.1 A @ 100-240V AC, 50/60Hz           perational Environment         Temperature*3: Vertice         0 - 40°C / 32 - 104°F Humidity:         0 - 80% (without condensation) Altitude:         0 - 3000 m (Brightness may decrease with altitude)           orage Environment         Temperature: 20 - 60°C / 4 - 140°F Humidity:         20 60°C / 4 - 140°F Humidity:         1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handl 1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handle)           eight         26.5 kg (58.4 lbs)         300 mm x 300 mm (M6, 4 Holes)           were Management         VESA DDC28, DDC/CI, DisplayPort         VESA DDC28, DDC/CI, DisplayPort           were Saveries         Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp		STEREO Mini Jack	Analog Audio	Stereo L/R 0.5 Vrms	
DisplayPort Connector         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)           AUDIO Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           speaker Output         External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W         External Speaker 10W + 10W           sontrol         RS-232C Dit 9 Pin D-sub RS-232C Out 9 Pin D-sub LAN: RJ-45 10/100 BASE-T Remote IN:         9 Pin D-sub 9 Pin D-sub Vistereo Mini jack 3.5 Φ           Sower Supply         2.7 - 1.1 A @ 100-240V AC, 50/60Hz           Operational Environment         Temperature* United to 0 - 3000 m (Brightness may decrease with altitude)           Autidude         0 - 40°C / 32 - 104°F Humidity: 0 - 3000 m (Brightness may decrease with altitude)           Autrage Environment         Temperature* 1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)           Veight         26.5 kg (58.4 lbs)           TeSA compatible mounting interface         300 mm x 300 mm (M6, 4 Holes)           Veight         VESA DDC/B, DDC/CI, DisplayPort	DisplayPort Connector         Digital Audio         PCM 32, 44.1, 48 KHz (16/20/24bit)           AUDIO Output         RCA (L/R)         Analog Audio         Stereo L/R 0.5 Vrms           beaker Output         External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W         Stereo L/R 0.5 Vrms           beaker Output         RS-232C In: RS-232C Out:         9 Pin D-sub (with daisy chain) LAN: RJ-45 10/100 BASE-T Remote IN:         Stereo Mini jack 3.5 Q           bwer Supply         2.7 - 1.1 A @ 100-240V AC, 50/60Hz           perational Environment         Temperature*3: Vertice         0 - 40°C / 32 - 104°F Humidity:         0 - 80% (without condensation) Altitude:         0 - 3000 m (Brightness may decrease with altitude)           orage Environment         Temperature: 20 - 60°C / 4 - 140°F Humidity:         20 60°C / 4 - 140°F Humidity:         1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handl 1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handle)           eight         26.5 kg (58.4 lbs)         300 mm x 300 mm (M6, 4 Holes)           were Management         VESA DDC28, DDC/CI, DisplayPort         VESA DDC28, DDC/CI, DisplayPort           were Saveries         Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp		HDMI Connector	Digital Audio	PCM 32, 44.1, 48 KHz (16/20/24bit)	
AUDIO Output       RCA (L/R)       Analog Audio       Stereo L/R 0.5 Vrms         peaker Output       External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W         sontrol       RS-232C In: RS-232C Out: LAN: RS-232C Out: LAN: RS-232C Out: LAN: Remote IN: Stereo Mini jack 3.5 Ф       9 Pin D-sub (with daisy chain) RJ-45 10/100 BASE-T Stereo Mini jack 3.5 Ф         ower Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         operational Environment       Temperature* Humidity: Altitude:       0 - 40°C / 32 - 104°F 20 - 80°C ( / 4 - 140°F 10 - 90% (without condensation) Altitude:         torage Environment       Temperature* Humidity:       -20 - 60°C / -4 - 140°F 10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C         timension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle) 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         Veight       26.5 kg (58.4 lbs)       300 mm x 300 mm (M6, 4 Holes)         ower Management       VESA DPM       VESA DPM         Vg & Play       VESA DDC/CI, DisplayPort       VESA DDC/CI, DisplayPort	AUDIO Output       RCA (L/R)       Analog Audio       Stereo L/R 0.5 Vrms         beaker Output       External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W       External Speaker 10W + 10W         control       RS-232C Out 9 Pin D-sub 9 Pin D-sub (with daisy chain) LAN: RS-232C Out 10 Pin D-sub (with daisy chain)       9 Pin D-sub RS-232C Out 10 Pin D-sub (with daisy chain)         power Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         perational Environment       Temperature*3 Humidity: 20 - 80% (without condensation) Altitude: 0 - 3000 m (Brightness may decrease with altitude)         orage Environment       Temperature: Humidity: 0 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C         mension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle)         eight       26.5 kg (58.4 lbs)         SSA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         ower Management       VESA DPM         veSA DPM       VESA DDC2B, DDC/Cl, DisplayPort         scessories       Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 3					
peaker Output       External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W         control       RS-232C In: RS-232C Out: P Pin D-sub (with daisy chain) LAN: RJ-45 10/100 BASE-T Remote IN: Stereo Mini jack 3.5 Ф         cower Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         ower Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         operational Environment       Temperature*: Humidity: 20 - 80% (without condensation) Altitude: 0 - 3000 m (Brightness may decrease with altitude)         torage Environment       Temperature: Humidity: 10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C         imension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         veight       26.5 kg (58.4 lbs)         ESA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         ower Management       VESA DPM         VESA DDC2B, DDC/CI, DisplayPort	Deaker Output       External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W         Dontrol       RS-232C Ln: RS-232C Out: LAN: LAN: RJ-45 10/100 BASE-T Remote IN: Stereo Mini jack 3.5 Ф         Dower Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Dever Supply       2.7 - 0.4 - 140°F         Humidity:       10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C         mension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         Selight       26.5 kg (58.4 lbs)       26.5 kg (58.4 lbs) <td< td=""><td></td><td></td><td></td><td></td></td<>					
Internal Speaker 10W + 10W         Sontrol       RS-232C Iu: RS-232C Out: BS-232C Out: LAN: EN-sub (with daisy chain) RS-232C Out: LAN: BJ-45 10/100 BASE-T Remote IN: Stereo Mini jack 3.5 Ф         Sower Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Ower Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Operational Environment       Temperature**: Humidity: Altitude:       0 - 40° C / 32 - 104°F         20 - 60°C / -4 - 140°F       20 - 60°C / -4 - 140°F         10 - 90% (without condensation) Altitude:       0 - 3000 m (Brightness may decrease with altitude)         • -20 - 60°C / -4 - 140°F       10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C         Dimension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         Veight       26.5 kg (58.4 lbs)         TESA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         Vower Management       VESA DPM         Vlug & Play       VESA DDC/Cl, DisplayPort	Internal Speaker 10W + 10W         pontrol       RS-232C In: RS-232C Out: by Pin D-sub RS-232C Out: LAN: RJ-45 10/100 BASE-T Remote IN: Stereo Mini jack 3.5 Ф         power Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         perational Environment       Temperature*0: Humidity: 20 - 80% (without condensation) Altitude:         o - 40°C / 32 - 104°F Humidity: 20 - 80% (without condensation) Altitude:       0 - 40°C / -4 - 140°F Humidity: 10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C         mension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handl 1249.7 (W) x 720.5 (H) x 63.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handl) 1249.7 (W) x 720.5 (H) x 63.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handl) 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handl) 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handl) 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handl) 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handl) 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handl) 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handl) 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         eight       26.5 kg (58.4 lbs)       300 mm x 300 mm (M6, 4 Holes)       XESA DPM         ug & Play       VESA DDC2B, DDC/CI, DisplayPort       XESA DPM         ug & Play       VESA DDC2B, DDC/CI, DisplayPort       XEst DPM <td></td> <td>ł</td> <td></td> <td>External Speaker Jack 15 W + 15 W (8 obm)</td>		ł		External Speaker Jack 15 W + 15 W (8 obm)	
ControlRS-232C In: RS-232C Out: LAN: RS-232C Out: LAN: RS-232C Out: LAN: RS-232C Out: LAN: RS-232C Out: LAN: RS-232C Out: LAN: RS-232C Out: LAN: RS-232C Out: LAN: RS-45 10/100 BASE-T Stereo Mini jack 3.5 ΦPower Supply2.7 - 1.1 A @ 100-240V AC, 50/60HzOperational EnvironmentTemperature*3: Humidity: Altitude:Deprational EnvironmentTemperature*3: Humidity: Altitude:Temperature*3: Humidity: Altitude:0 - 40°C / 32 - 104°F 20 - 80% (without condensation) 0 - 3000 m (Brightness may decrease with altitude)Storage EnvironmentTemperature: Humidity:Temperature*3: Humidity:-20 - 60°C / -4 - 140°F 10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°CStorage EnvironmentTemperature: Humidity:Veight26.5 kg (58.4 lbs)Veight26.5 kg (58.4 lbs)Veight26.5 kg (58.4 lbs)VeightVESA DPMVeig & PlayVESA DDC/CI, DisplayPort	pontrol       RS-232C In: RS-232C Out: LAN: RS-232C Out: LAN: RS-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         perational Environment       Temperature**: Humidity: 20 - 80% (without condensation) Altitude:       0 - 40°C / 32 - 104°F         power Supply       2.7 - 0.1 A @ 100-240V AC, 50/60Hz         perational Environment       Temperature**: Humidity: 0 - 3000 m (Brightness may decrease with altitude)         corage Environment       Temperature Humidity:         v20 - 60°C / -4 - 140°F         Humidity:       -20 - 60°C / -4 - 140°F         Humidity:       10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C         mension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handl 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         eight       26.5 kg (58.4 lbs)         ESA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         ower Management       VESA DPM         ug & Play       VESA DDC28, DDC/CI, DisplayPort         xcessories       Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 300	poarter Output				
RS-232C Out LAN: RJ-45 10/100 BASE-T Remote IN:9 Pin D-sub (with daisy chain) RJ-45 10/100 BASE-T Stereo Mini jack 3.5 PPower Supply2.7 - 1.1 A @ 100-240V AC, 50/60HzOperational Environment Humidity:C - 40°C / 32 - 104°F 20 - 80% (without condensation) Altitude:Object Environment Humidity:Temperature*: 20 - 80% (without condensation) Altitude:Altitude:- 40°C / 4 - 140°F 10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°CDimension1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle)Veight26.5 kg (58.4 lbs)VESA compatible mounting interface300 mm x 300 mm (M6, 4 Holes)Power ManagementVESA DPMVESA DDC2B, DDC/CI, DisplayPortVESA DDC2B, DDC/CI, DisplayPort	RS-232C Out LAN: Remote IN:9 Pin D-sub (with daisy chain) RJ-45 10/100 BASE-T Remote IN:ower Supply2.7 - 1.1 A @ 100-240V AC, 50/60Hzperational EnvironmentTemperature*3: Humidity:0 - 40°C / 32 - 104°F 20 - 80% (without condensation) 0 - 3000 m (Brightness may decrease with altitude)corage EnvironmentTemperature*3: Humidity:-20 - 60°C / -4 - 140°F 10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°Cmension1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handl 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)eight26.5 kg (58.4 lbs)ESA compatible mounting interface300 mm x 300 mm (M6, 4 Holes)ower ManagementVESA DPMug & PlayVESA DDC2B, DDC/CI, DisplayPortcessoriesSetup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 3	Control		RS-232C In:		
Power Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         Operational Environment       Temperature*3: Humidity: 20 - 80% (without condensation) 0 - 3000 m (Brightness may decrease with altitude)         Storage Environment       Temperature: Humidity: 20 - 60°C / -4 - 140°F         Dimension       -20 - 60°C / -4 - 140°F         Dimension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         Veight       26.5 kg (58.4 lbs)         Veight       300 mm x 300 mm (M6, 4 Holes)         Power Management       VESA DPM         VeigA Play       VESA DDC2B, DDC/CI, DisplayPort	ower Supply       2.7 - 1.1 A @ 100-240V AC, 50/60Hz         perational Environment       Temperature*3: Humidity: Altitude:       0 - 40°C / 32 - 104°F         20 - 80% (without condensation)       0 - 3000 m (Brightness may decrease with altitude)         corage Environment       Temperature: Humidity:       -20 - 60°C / -4 - 140°F         nension       -20 - 60°C / -4 - 140°F       10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C         mension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handl 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (without handle)         reight       26.5 kg (58.4 lbs)         ESA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         ower Management       VESA DPM         ug & Play       VESA DDC2B, DDC/CI, DisplayPort         setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 300			LAN:	RJ-45 10/100 BASE-T	
Operational Environment       Temperature*: Humidity: Altitude:       0 - 40°C / 32 - 104°F         20 - 80% (without condensation)       0 - 3000 m (Brightness may decrease with altitude)         Storage Environment       Temperature: Humidity:       -20 - 60°C / -4 - 140°F         Dimension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         Veight       26.5 kg (58.4 lbs)         //ESA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         Power Management       VESA DPM         Vlag & Play       VESA DDC2B, DDC/CI, DisplayPort	perational Environment       Temperature*: Humidity: Altitude:       0 - 40°C / 32 - 104°F 20 - 80% (without condensation) 0 - 3000 m (Brightness may decrease with altitude)         corage Environment       Temperature: Humidity:       -20 - 60°C / -4 - 140°F 10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C         mension       1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handl 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         eight       26.5 kg (58.4 lbs)         ESA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         ower Management       VESA DPM         ug & Play       VESA DDC2B, DDC/CI, DisplayPort         setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 300	Ower Supply		nomote ny.	-	
Humidity: Altitude:20 - 80% (without condensation) 0 - 3000 m (Brightness may decrease with altitude)Storage EnvironmentTemperature: Humidity:-20 - 60°C / -4 - 140°F 10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°CDimension1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)Veight26.5 kg (58.4 lbs)ZeSA compatible mounting interface300 mm x 300 mm (M6, 4 Holes)Power ManagementVESA DPMPlug & PlayVESA DDC/CI, DisplayPort	Humidity: Altitude:20 - 80% (without condensation) 0 - 3000 m (Brightness may decrease with altitude)corage EnvironmentTemperature: Humidity:-20 - 60°C / -4 - 140°F 10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°Cmension1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handli 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)eight26.5 kg (58.4 lbs)ESA compatible mounting interface300 mm x 300 mm (M6, 4 Holes)over ManagementVESA DPMug & PlayVESA DDC2B, DDC/CI, DisplayPortsetup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 3	,	vironmont	Tomporatura*3		
Humidity:10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°CDimension1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)Veight26.5 kg (58.4 lbs)/ESA compatible mounting interface300 mm x 300 mm (M6, 4 Holes)Power ManagementVESA DPMVeightVESA DDC2B, DDC/CI, DisplayPort	Humidity:10 - 90% (without condensation / 90% - 3.5% x (Temp - 40°C) regarding over 40°Cmension1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handl 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)eight26.5 kg (58.4 lbs)ESA compatible mounting interface300 mm x 300 mm (M6, 4 Holes)ower ManagementVESA DPMug & PlayVESA DDC2B, DDC/CI, DisplayPortccessoriesSetup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 3	Humidity:		Humidity:	20 - 80% (without condensation)	
1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         Veight       26.5 kg (58.4 lbs)         VESA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         Power Management       VESA DPM         Plug & Play       VESA DDC2B, DDC/CI, DisplayPort	1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)         reight       26.5 kg (58.4 lbs)         ESA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         ower Management       VESA DPM         ug & Play       VESA DDC2B, DDC/CI, DisplayPort         scessories       Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 300 mm (M6, 2000)	5		•		
VESA compatible mounting interface     300 mm x 300 mm (M6, 4 Holes)       Power Management     VESA DPM       Plug & Play     VESA DDC2B, DDC/CI, DisplayPort	ESA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         ower Management       VESA DPM         ug & Play       VESA DDC2B, DDC/CI, DisplayPort         occessories       Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 3	Dimension			1249.7 (W) x 720.5 (H) x 63.5 (D) mm / 49.2 (W) x 28.4 (H) x 2.5 (D) inches (without handle) 1249.7 (W) x 720.5 (H) x 69.9 (D) mm / 49.2 (W) x 28.4 (H) x 2.8 (D) inches (with handle)	
VESA compatible mounting interface     300 mm x 300 mm (M6, 4 Holes)       Power Management     VESA DPM       Plug & Play     VESA DDC2B, DDC/CI, DisplayPort	ESA compatible mounting interface       300 mm x 300 mm (M6, 4 Holes)         ower Management       VESA DPM         ug & Play       VESA DDC2B, DDC/CI, DisplayPort         occessories       Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 3	Weight			26.5 kg (58.4 lbs)	
Power Management VESA DPM Plug & Play VESA DDC/CI, DisplayPort	ower Management         VESA DPM           ug & Play         VESA DDC2B, DDC/CI, DisplayPort           ccessories         Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 3	VESA compatible mounting interface				
Plug & Play VESA DDC2B, DDC/CI, DisplayPort	ug & Play VESA DDC2B, DDC/Cl, DisplayPort ccessories Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 3	• •				
	ccessories Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 3	Ŭ				
Sello manual Power Loro Video Signal Cable Remote Lontrol AV Batton/ V.9 Clamb V.9						

NOTE: Technical specifications are subject to change without notice.

e. \*1: Compressed image. \*2: Common terminal. \*3: When you use option board accessories, please contact your supplier for detailed information.

# **Specifications - V652**

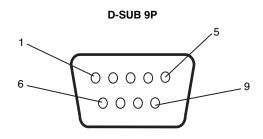
CD Module			64.5"/1639.0 mm diagonal	
Pixel Pitch: Resolution: Color: Brightness: Contrast Ratio:		Resolution: Color: Brightness:	0.744 mm 1920 x 1080 Over 1073 million colors (depending on video card used) 450 cd/m² (Max.), 320 cd/m² (Factory setting Typ.) @25°C	
			4000:1 89° (typ) @ CR>10	
requency			15.625/15.734 kHz, 31.5 kHz - 91.1 kHz (Analog Input) 31.5 kHz - 91.1 kHz (Digital Input) 50.0 - 85.0 Hz	
ixel Clock			25.2 MHz - 162.0 MHz	
iewable Size			1428.5 x 803.5 mm	
put Signal				
DVI	DVI-D 24pin	Digital RGB	DVI (HDCP) VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60*1, 1920X1080 (60Hz), 1080p, 1080	
DisplayPort	DisplayPort Connector	Digital RGB	DisplayPort Complies with Standard V1.1a, applicable to HDCP V1.3 VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60* <sup>1</sup> , 1920x1080 (60 Hz), 1080p, 1080 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 HDMI Connector Digital YUV Digital RGB		HDMI VGA60, SVGA60, XGA60, WXGA60, SXGA60, UXGA60* <sup>1</sup> , 1920x1080 (60 Hz), 1080p, 1080 720p@50Hz/60Hz, 576p@50Hz, 480p@60Hz, 576i@50Hz, 480i@60Hz	
DVD/HD*2 BNC X 3 Component		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	
utput Signal		1		
DVI	DVI-D 24pin	Digital RGB	DVI (HDCP)	
		1		
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	RCA (L/R)	Analog Audio	Stereo L/R 0.5 Vrms	
peaker Output	:		External Speaker Jack 15 W + 15 W (8 ohm) Internal Speaker 10W + 10W	
LAN:			9 Pin D-sub 9 Pin D-sub (with daisy chain) RJ-45 10/100 BASE-T Stereo Mini jack 3.5 Φ	
ower Supply			4.1 - 1.7 A @ 100-240V AC, 50/60Hz	
Humidity:		Humidity:	0 - 40°C / 32 - 104°F 20 - 80% (without condensation) 0 - 3000 m (Brightness may decrease with altitude)	
•		•	-20 - 60°C / -4 - 140°F 10 - 90% (without condensation) / 90% - 3.5% x (Temp - 40°C) regarding over 40°C	
imension			1540.4 (W) x 909.2 (H) x 88.3 (D) mm / 60.6 (W) x 35.8 (H) x 3.5 (D) inches	
Weight			52.0 kg (114.6 lbs)	
ESA compatib	le mounting interface		400 mm x 400 mm (M8, 4 Holes)	
Power Management			VESA DPM	
lug & Play			VESA DDC2B, DDC/CI, DisplayPort	
			Setup manual, Power Cord, Video Signal cable, Remote Control, AA Battery x 2, Clamp x 1,	

NOTE: Technical specifications are subject to change without notice.

e. \*1: Compressed image. \*2: Common terminal. \*3: When you use option board accessories, please contact your supplier for detailed information.

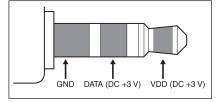
1) RS-232C input/output

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



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

#### 2) REMOTE IN



# 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 VESA Display Power Management Signalling (DPMS) Standard 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	Approx. 100 W (V552) Approx. 185 W (V652)	Green
Energy Saving Mode*1, *2	Less than 1 W	Amber
Power Off	Less than 0.5 W	Red

\*1: without any option, with factory settings.

\*2: VGA input only.

# WEEE Mark (European Directive 2002/96/EC)



#### 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.