SHARP

User's Manual

Desktop Monitor

MultiSync®

EA272Q

EA272U

MODEL: DD-EA272Q, DD-EA272QW, DD-EA272U, DD-EA272UW

The regulations for this monitor applied to one of model names listed above.

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

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DEAR CUSTOMER

Thank you for purchasing this product. To ensure safety and many years of trouble-free operation of your product, please read the "Safety Precautions and Maintenance" carefully before using this product.

NOTE:

Product warranty does not cover damage caused by improper installation. Failure to follow these recommendations could result in voiding the warranty.

Important Information

To maintain compliance with EMC regulations, use shielded cables to connect to the following terminals: USB port, USB Type-C port, HDMI input terminal and DisplayPort input terminal.

Supplier's Declaration of Conformity

SHARP LCD MONITOR, DD-EA272Q, DD-EA272QW, DD-EA272U, DD-EA272UW

This device complies with Part 15 of the 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.

Responsible Party:

SHARP ELECTRONICS CORPORATION
100 Paragon Drive, Montvale, NJ 07645
TEL: (630) 467-3000 www.sharpnecdisplays.us

U.S.A. ONLY

WARNING:
An apparatus with CLASS I construction shall be connected to a MAIN socket outlet with a protective earthing connection.

(For Customers in U.K.)

IMPORTANT

- The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW:	**"Earth"**
BLUE:	**"Neutral"**
BROWN:	**"Live"**

- As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
  - The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter **E** or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
  - The wire which is coloured BLUE must be connected to the terminal which is marked with the letter **N** or coloured black.
  - The wire which is coloured BROWN must be connected to the terminal which is marked with the letter **L** or coloured red.
- Ensure that your equipment is connected correctly. If you are in any doubt consult a qualified electrician.

"WARNING: THIS APPARATUS MUST BE EARTHED."



Information on the Disposal of this Equipment

IF YOU WISH TO DISPOSE OF THIS EQUIPMENT, DO NOT USE THE ORDINARY WASTE BIN, AND DO NOT PUT THEM INTO A FIREPLACE!
Used electrical and electronic equipment should always be collected and treated SEPARATELY in accordance with local law. Separate collection promotes an environment-friendly treatment, recycling of materials, and minimizing final disposal of waste. IMPROPER DISPOSAL can be harmful to human health and the environment due to certain substances! Take USED EQUIPMENT to a local, usually municipal, collection facility, where available.
If in doubt about disposal, contact your local authorities or dealer and ask for the correct method of disposal.
ONLY FOR USERS IN THE EUROPEAN UNION, AND SOME OTHER COUNTRIES; FOR INSTANCE NORWAY AND SWITZERLAND: Your participation in separate collection is requested by law.
The symbol shown above appears on electrical and electronic equipment (or the packaging) to remind the users of this.
Users from PRIVATE HOUSEHOLDS are requested to use existing return facilities for used equipment. Return is free of charge.
If the equipment has been used for BUSINESS PURPOSES, please contact your dealer who will inform you about take-back. You might be charged for the costs arising from take-back. Small equipment (and small quantities) might be taken back by your local collection facility. For Spain: Please contact the established collection system or your local authority for take-back of your used products.

TCO Certified

TCO Certified — a third-party sustainability certification for IT products

TCO Certified is a global sustainability certification for IT products, available for computers, mobile devices, display products and data center products. Criteria cover both social and environmental sustainability and enable circular solutions. Compliance with criteria is independently verified. TCO Certified is a third-party certification in accordance with ISO 14024.

To see a list of our TCO certified monitors and their TCO Certification (in English only), visit our website at:

https://www.sharp-nec-displays.com/global/about/legal_regulation/TCO_mn/index.html

NOTE: (1) This product can only be serviced in the country where it was purchased.
(2) The contents of this user's manual may not be reprinted in part or whole without permission.
(3) The contents of this user's manual are subject to change without notice.
(4) Great care has been taken in the preparation of this user's manual; however, should you notice any questionable points, errors or omissions, please contact us.
(5) The image shown in this user's manual is indicative only. If there is inconsistency between the image and the actual product, the actual product shall govern.
(6) Notwithstanding articles (4) and (5), we will not be responsible for any claims on loss of profit or other matters deemed to result from using this device.
(7) This manual is commonly provided to all regions so they may contain descriptions that are pertinent for other countries.
(8) Language of OSD menu used in this manual is English by way of example.

Safety Precautions and Maintenance

FOR OPTIMUM PERFORMANCE, PLEASE NOTE
THE FOLLOWING WHEN SETTING UP AND
USING THE LCD COLOR MONITOR:

About the Symbols

To ensure safe and proper use of the product, this manual uses a number of symbols to prevent injury to you and others as well as damage to property. The symbols and their meanings are described below. Be sure to understand them thoroughly before reading this manual.

WARNING	Failing to heed this symbol and handling the product incorrectly could result in accidents leading to major injury or death.
CAUTION	Failing to heed this symbol and handling the product incorrectly could result in personal injury or damage to surrounding property.

Examples of symbols

	This symbol indicates a warning or caution.
	This symbol indicates a prohibited action.
	This symbol indicates a mandatory action.

WARNING	
 UNPLUG THE POWER CORD	Unplug the power cord if the product malfunctions. Should the product emit smoke or strange odors or sounds, or if the product has been dropped or the cabinet broken, turn off the product's power, then unplug the power cord from the power outlet. Contact your dealer for repairs. Never try to repair the product on your own. Doing so is dangerous.
 DO NOT MODIFY	Do not open or remove the product's cabinet. Do not disassemble the product. There are high voltage areas in the product. Opening or removing product covers and modifying the product may expose you to electric shock, fire, or other risks. Refer all servicing to qualified service personnel.
 PROHIBITED	Do not use the product if it has structural damage or if its stand has cracked or peeled. If you notice any structural damage such as cracks or unnatural wobbling, please refer servicing to qualified service personnel. If the product is used in this condition, the product may fall or cause personal injury.

WARNING

Handling the power cord.



PROHIBITED

Do not scratch or modify the cord.
- Do not place heavy objects on the cord.
- Do not let the weight of the product rest on the cord.
- Do not cover the cord with a rug, etc.
- Do not bend, twist or pull the cord with excessive force.
- Do not apply heat to the cord.

Handle the power cord with care. Damaging the cord could lead to fire or electric shock. If the cord gets damaged (exposed core wires, broken wires, etc.), turn off the product's power, then unplug the power cord from the power outlet. Ask your dealer to replace it.



DO NOT TOUCH

Do not touch the power plug if you hear thunder.
Doing so could result in electric shock.



DO NOT TOUCH WITH WET HANDS

Do not connect or disconnect the power cord with wet hands.
It may cause an electric shock.



REQUIRED

Please use the power cord provided with this product in accordance with the power cord table.
Do not exceed the product's specified power supply voltage where it is installed. Doing so could result in a fire or electric shock. Please refer to the power supply voltage information in the Product Specifications.
If a power cord is not supplied with this product, please contact us. For all other cases, please use the power cord with the plug style that matches the power socket where the product is located. The compatible power cord corresponds to the AC voltage of the power outlet and has been approved by, and complies with, the safety standards in the country of purchase.



MUST BE EARTHED

This equipment is designed to be used in the condition of the power cord connected to the earth.
If the power cord is not connected to the earth, it may cause electric shock. Please make sure the power cord is connected to the wall outlet directly and earthed properly. Do not use a 2-pin plug converter adapter.



REQUIRED

Please install the product in accordance with the following information.
When transporting, moving, or installing the product, please use as many people as necessary to be able to lift the product without causing personal injury or damage to the product.
Please refer to the instructions included with the optional mounting equipment for detailed information about attaching or removing.
Do not cover the vents on the product. Improper installation of the product may result in damage to the product, an electric shock or fire.
Do not install the product in the locations below:
- Narrow spaces, and poorly ventilated spaces.
- Near a radiator, other heat sources, or in direct sunshine.
- Continual vibration areas.
- Humid, dusty, steamy, or oily areas.
- An environment where there are corrosive gases (sulfur dioxide, hydrogen sulfide, nitrogen dioxide, chlorine, ammonia, ozone, etc.).
- Outdoors.
- High-temperature environment where humidity changes rapidly and condensation is likely to occur.

Do not mount the product in any configuration or position not described in the user's manual.
Please check the Product Specifications for the available Tilt range when installing the product.

WARNING

 REQUIRED	Prevent tipping and falling for earthquakes or other shocks. To prevent personal injury or damage to the product caused by tipping over due to earthquakes or other shocks, make sure to install the product in a stable location and take measures to prevent falling. The measures to prevent falling and tipping are intended for reducing the risk of injury, but may not guarantee the effectiveness against all earthquakes. • The product must be mounted to an approved flexible arm (e.g. TUEV GS mark) or stand that supports the weight of the product to prevent damage and personal injury that could result from the product tipping over or falling. • Only use the screws that were removed from the product's stand or the specified screws to avoid damage to the product or the stand. • Please tighten all screws (Recommended Fasten Force: 98 - 137 N•cm) when installing the product to a flexible arm or stand. A loose screw may cause the product to fall, causing damage to the product or personal injury. • Attaching the flexible arm should be performed by two or more people if the product cannot be placed face-down on a flat surface for installation. Stability Hazard. The product may fall, causing serious personal injury or death. To prevent injury, this product must be securely attached to the floor/wall in accordance with the installation instructions. Many injuries, particularly to children, can be avoided by taking simple precautions such as: • ALWAYS use stands or installation methods recommended by the manufacturer of the product set. • ALWAYS use furniture that can safely support the product. • ALWAYS ensure the product is not overhanging the edge of the supporting furniture. • ALWAYS educate children about the dangers of climbing on furniture to reach the product or its controls. • ALWAYS route cords and cables connected to your product so they cannot be tripped over, pulled or grabbed. • NEVER place a product in an unstable location. • NEVER place the product on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the product to a suitable support. • NEVER place the product on cloth or other materials that may be located between the product and supporting furniture. • NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the product or furniture on which the product is placed. • ALWAYS use wall mounting accessories when installing the product at a high location. NEVER place the product on a monitor stand when installing the product at a high location. If the existing product is going to be retained and relocated, the same considerations as above should be applied.
 PROHIBITED	Do not place this product on a sloping or unstable cart, stand or table. Doing so could lead to falling or tipping and cause personal injury.
 PROHIBITED	Do not insert objects of any kind into the cabinet slots. It may cause electric shock, fire, or product failure. Keep objects away from children and babies. If objects get into the cabinet slot, turn off the product's power, then unplug the power cord from the power outlet. Contact your dealer for repairs.
 DO NOT WET	Do not spill any liquids into the cabinet or use your product near water. Immediately turn off the power and unplug your product from the wall outlet, then refer servicing to qualified service personnel. It may cause an electric shock or start a fire. Do not install the product under equipment that discharges water, such as air conditioners.

WARNING	
PROHIBITED	Do not use flammable gas sprays to remove dust when cleaning the product. Doing so could lead to a fire.
PROHIBITED	Usage of the product must not be accompanied by fatal risks or dangers that, could lead directly to death, personal injury, severe physical damage or other loss, including nuclear reaction control in nuclear facility, medical life support system, and missile launch control in a weapon system.

CAUTION	
Handling the power cord.	
REQUIRED	The monitor should be installed close to an easily accessible power outlet.
REQUIRED	When connecting the power cord to the product's AC input terminal, make sure the connector is fully and firmly inserted. An incomplete connection of the power cord may cause overheating of the plug; it allows dust to get on the plug connection, which can lead to a fire. Touching the pins of a partially inserted plug may lead to an electric shock.
REQUIRED	Handling the power cord by following below to avoid fire or electric shock. • When connecting or disconnecting the power cord, pull the power cord out by holding onto its plug. • Unplug the power cord from the power outlet before cleaning the product or when not planning to use the product for an extended time. • When the power cord or plug is hot or damaged, unplug the power cord from the power outlet, and contact a qualified service person.
REQUIRED	Regularly dust off the power cord by using a soft dry cloth.
REQUIRED	Before moving the product, make sure the product power is off, then unplug the power cord from the power outlet and check that all cables connecting the product to other devices are disconnected.
PROHIBITED	Do not use the power cord with a power tap. Adding an extension cord may lead to fire as a result of overheating.
REQUIRED	Please confirm the distribution system in building installation shall provide the circuit breaker rated 120/240 V, 20 A (maximum).
PROHIBITED	Do not bind the power cord and the USB cable. It may trap heat and cause a fire.
PROHIBITED	Do not connect to a LAN with excessive voltage. When using a LAN cable, do not connect to a peripheral device with wiring that might have excessive voltage. Excessive voltage on the LAN terminal may cause an electric shock.
PROHIBITED	Do not climb on the table where the product is installed. Do not install the product on a wheeled table if the wheels on the table have not been properly locked. The product may fall, causing damage to the product or personal injury.

CAUTION	
REQUIRED	Installation, removal, and adjustment of the stand. • Handle with care when pulling the stand as it might pinch your fingers. • Please securely hold the monitor stand while removing the screws to prevent the monitor stand from falling. It may case personal injury. • Please hold the base securely when detaching it from the stand to prevent it from falling. It may cause personal injury. • Before rotating the screen, disconnect the power cord and all cables from the product. Otherwise, the power cord or cables might pull with excessive force and cause personal injury or damage to the product. • When rotating the screen, slide it to the highest level and set it to the maximum tilt. Otherwise, it could cause personal injury or knock the screen on the desk.
REQUIRED	Please check the Product Specifications for the available Tilt range when installing the product on a flexible arm. Do not tilt the monitor downward beyond 5 degrees. Doing so can cause the LCD panel to separate and potentially fall out causing damage to the product or personal injury.
PROHIBITED	Do not push or climb on the product. Do not grab or hang onto the product. Do not rub or tap the product with hard objects. The product may fall, causing damage to the product or personal injury.
PROHIBITED	Do not hit or strike the screen. Do not push against the screen with a pointed object. It can cause serious damage to the product or personal injury.
PROHIBITED	Do not stay in contact with the parts of the product that become hot for long periods of time. Doing so may result in low-temperature burns.
REQUIRED	Suitable for entertainment purposes at controlled luminous environments, to avoid disturbing reflections from the screen.
PROHIBITED	Do not connect headphones to the product while you are wearing them. Depending on the volume level, it may damage your ears and cause loss of hearing.
PROHIBITED	Do not play with the plastic bag which covers the product. Do not use this bag for any other purpose. To avoid the danger of suffocation, do not place this bag over your head, nose or mouth. Do not place this bag over another person's head, nose or mouth. Keep this bag away from children and babies.
REQUIRED	We recommend wiping clean the ventilation opening a minimum of once a month. Failure to do so could lead to fire or electric shock or damage to the product.
REQUIRED	To ensure the product's reliability, please clean the ventilation holes at the rear side of the cabinet at least once a year to remove dirt and dust. Failure to do so could lead to fire or electric shock or damage to the product.
REQUIRED	Avoid locations with extreme temperatures and humidity. Failure to do so could lead to fire or electric shock or damage to the product. The usage environment for this product is as follows: • The operating temperature: 5 °C to 35 °C/41 °F to 95 °F/humidity: 20 to 80% (without condensation) • The storage temperature: -20 °C to 60 °C/-4 °F to 140 °F/humidity: 10 to 85% (without condensation)

Image Persistence

Image Persistence, also called Image Retention, is a condition that occurs when a previously displayed image leaves a residual or “ghost” impression on the screen. This happens when a single still image is shown for an extended time or when an image tremors or flashes at high speed. This is due to the technology of the LCD module and screen characteristics; it is not a product failure. Please follow these guidelines to care for the product and reduce the chance of Image Persistence occurring:

NOTE: • Do not display images with repeated tremors or flashing at high speeds.
• Do not display a single still image for an extended period of time.

One of the methods to avoid Image Persistence is to frequently switch the displaying image using computer power management or screen savers.

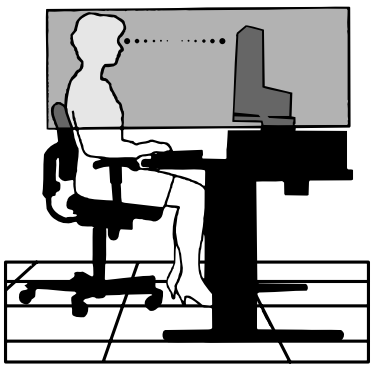
Recommended Use & Maintenance

■Recommended Use

Ergonomics

CORRECT PLACEMENT AND ADJUSTMENT OF THE MONITOR CAN REDUCE EYE, SHOULDER, AND NECK FATIGUE. CHECK THE FOLLOWING WHEN YOU POSITION THE MONITOR:

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



- For optimum performance of the monitor, allow 20 minutes for warming up. Avoid reproduction of still patterns on the monitor for long periods of time to avoid image persistence (after image effects).
- Adjust the monitor height so that the top of the screen is at or slightly below eye level. Your eyes should look slightly downward when viewing the middle of the screen.
- Position your monitor no closer than 40 cm (15.75 inches) and no further away than 70 cm (27.56 inches) from your eyes. The optimal distance is 50 cm (19.69 inches).
- Rest your eyes periodically for 5 to 10 minutes for every 1 hour by focusing on an object at least 20 feet away.
- Position the monitor at a 90° angle to windows and other light sources to minimize glare and reflections. Adjust the monitor tilt so that ceiling lights do not reflect on your screen.
- If reflected light makes it hard for you to see your screen, use an anti-glare filter.
- Adjust the monitor’s brightness and contrast controls to enhance readability.
- Use a document holder placed close to the screen.
- Position whatever you are looking at most of the time (the screen or reference material) directly in front of you to minimize turning your head while you are typing.
- Blink often. Eye exercise helps to reduce eye strain. Please contact your ophthalmologist. Get regular eye checkups.
- To avoid eye fatigue, adjust the brightness to a moderate setting. Place a sheet of white paper next to the LCD screen for luminance reference.
- Do not position the Contrast control to its maximum setting.
- 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.

For more detailed information on setting up a healthy work environment, write to the American National Standard for Human Factors Engineering of Computer Workstations - ANSI/HFES 100-2007 - The Human Factors Society, Inc. P.O. Box 1369, Santa Monica, California 90406.

■Maintenance

Cleaning the LCD Screen

- When the LCD Screen is dusty, please gently wipe with a soft cloth.
- Clean the LCD screen surface with a lint-free, non-abrasive cloth. Avoid using any cleaning solution or glass cleaner!
- Please do not rub the LCD Screen with hard or coarse material.
- Please do not apply pressure to the LCD Screen surface.
- Please do not use OA cleaner as it will cause deterioration or discoloration on the LCD Screen 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.

Trademark and Software License

■Trademarks

DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries.

MultiSync® is a trademark or registered trademark of Sharp NEC Display Solutions, Ltd. in Japan and other countries.

USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum.

The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

All other brands and product names are trademarks or registered trademarks of their respective owners.

Supplied Components

If any component should be missing, please contact your dealer.

☐ Liquid Crystal Display Monitor: 1

☐ Cable holder: 1

☐ Power cord

☐ Base: 1

☐ Signal cable (USB-C cable): 1

☐ Setup Manual: 1

Installation

■Attaching the base

1. **Place the monitor face down on a non-abrasive surface (Figure 1).**
2. **Please rotate the stand 90 degrees as shown in Figure 1.**
3. **Attach the base to the stand, then tighten the screw at the base's bottom (Figure 2).**

TIP: Reverse this procedure if you need to re-pack the monitor.

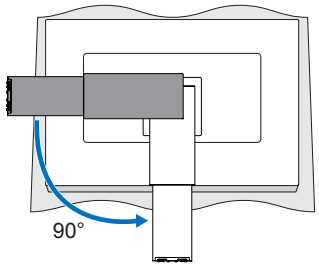


Figure 1

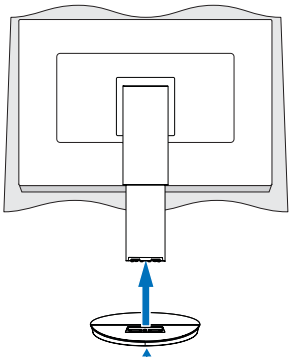


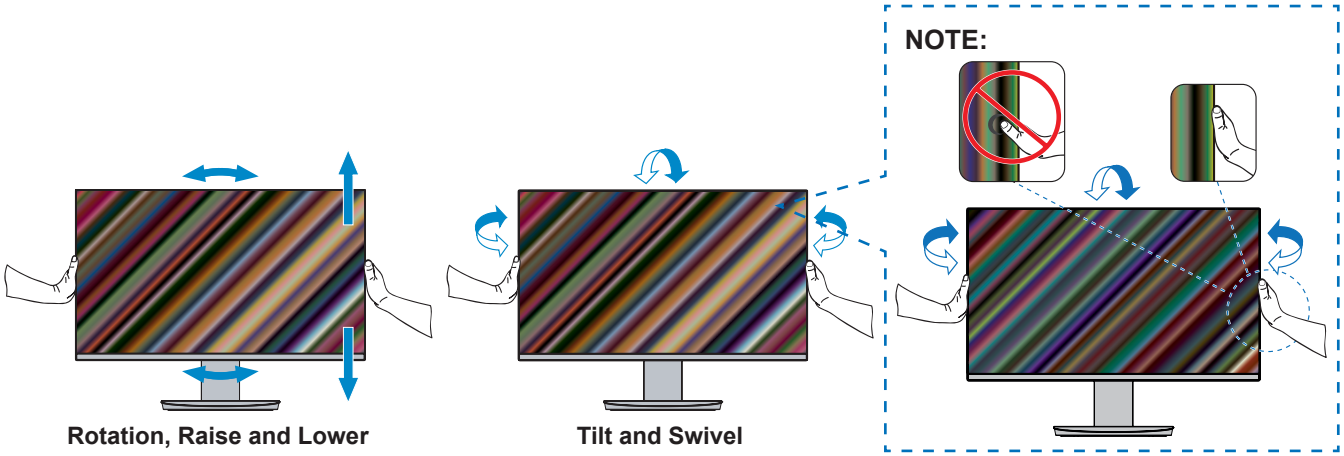
Figure 2

■Height and angle adjustment

Hold the monitor on each side and adjust the screen position as desired.

For screen rotation (pivot), hold the monitor on each side, lift to its maximum height and turn it from landscape to portrait.

You can adjust the OSD (On-Screen Display) menu rotation to match the screen rotation. Refer to the [OSD ROTATION] instructions (see page 29).

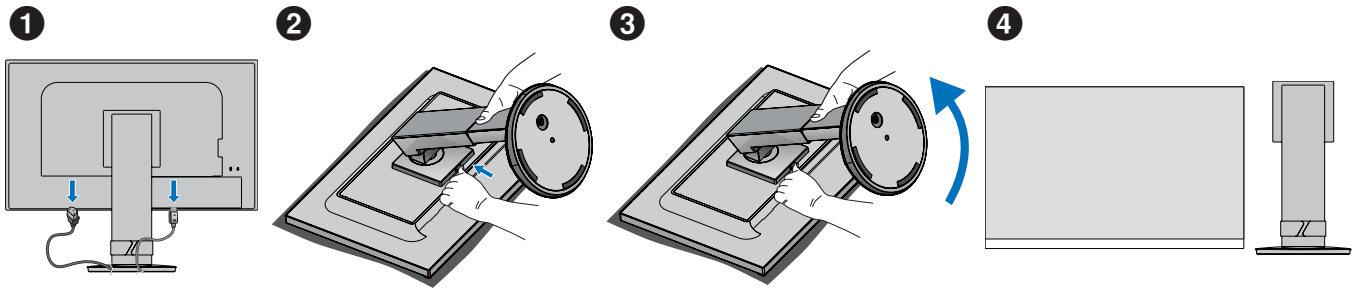


Rotation, Raise and Lower

Tilt and Swivel

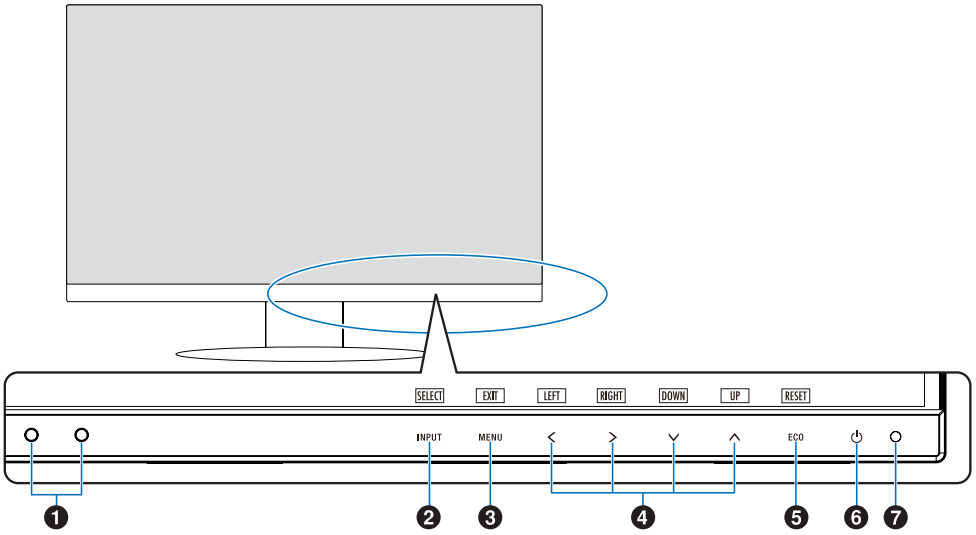
■Removing the stand

TIP: Handle with care when removing the monitor stand.



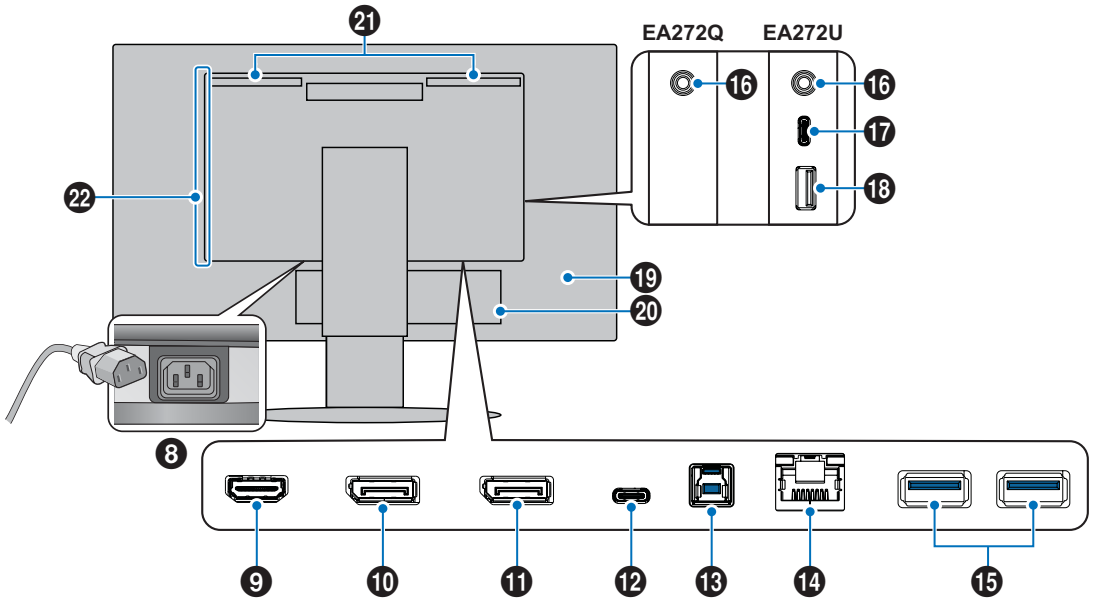
Parts name and Connecting Peripheral Equipment

■Front View



1. **Ambient Light Sensor Human Sensor**
2. **INPUT key**
3. **MENU key**
4. **< > ∨ ∧ key**
5. **ECO key**
6. **⏻ (POWER) key**
7. **Power LED** (See page 22)

■Rear View



8 AC input terminal (See page 18)

9 HDMI input terminal
HDMI signals input (See page 16).

10 DisplayPort input terminal
DisplayPort signals input (See page 17).

11 DisplayPort output terminal
DisplayPort signals output.
Connects with DisplayPort input terminal of another monitor.

⓬ USB Type-C (Upstream) Port

Connects with USB Type-C® compliant external equipment such as a computer (See page 17).

Charges a connected USB device (USB Power Delivery). See "Product Specifications" page.

TIP:
- Supports DisplayPort signals input when a connected USB Type-C device complies with USB Power Delivery.
- Functions as a USB hub.
- Provides power delivery to a connected device when the function is enabled in the OSD ([USB FUNCTIONALITY] must be set to [AUTO] or [ON] or [90W]).

⓭ USB Type-B Port

Connects with external equipment such as a computer. Please use this port to control the monitor from connected external equipment.

⓮ LAN terminal (RJ-45)

Connects to a Local Area Network (LAN).

Provides network access to a connected computer via a LAN-to-USB conversion from the USB Type-B port.

If a connected computer does not have LAN terminals or another method of accessing the network, this function creates a stable network environment for the computer.

TIP: LED on the side of LAN terminal lights up when a LAN cable is connect to the monitor.
Connected: Steady green LED.
Communicating: Blinking amber LED.

⓯ USB Type-A port

Connects with USB devices.

⓰ Headphones input terminal

Connects with headphones.

The audio out signal is always routed to the Headphones input terminal when headphones are connected to the monitor; there is no sound from the monitor speakers (EA272U only).

⓱ USB Type-C (Downstream) Port*

Connects with USB Type-C® compliant external equipment such as mice, keyboards, or USB flash drives.

Check the shape of the connectors when connecting a USB cable. When supplying power via the USB Type-C® port, use a USB cable supporting 3 A.

If [USB FUNCTIONALITY] is set to [90W], power supply is limited from 5 V/3 A to 5 V/0.9 A.

⓲ USB Type-A Port*

Connects with USB devices.

⓳ Security Slot (See page 44)

⓴ Label

㉑ Speaker*

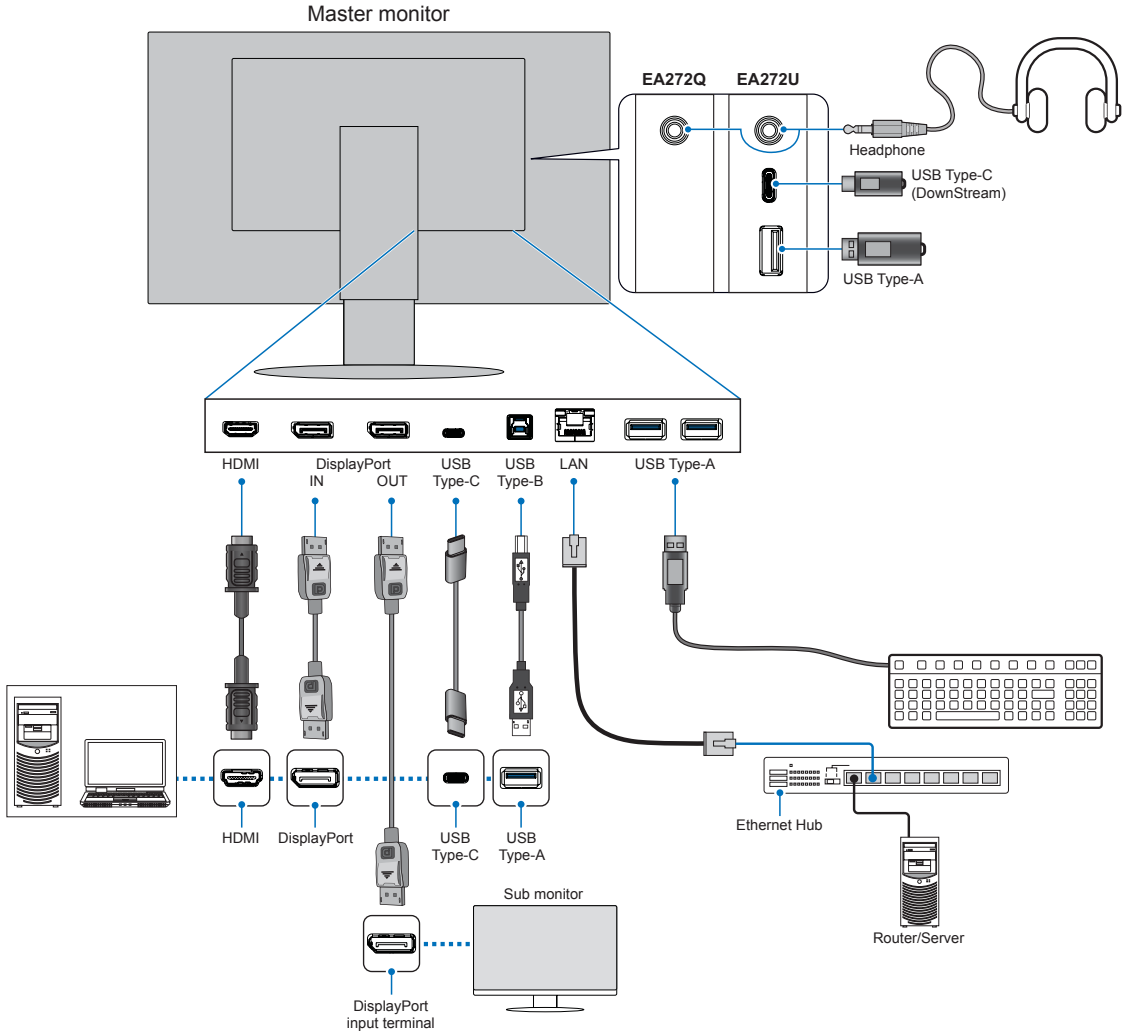
㉒ Vents

*: EA272U only.

Connect devices to the monitor.

Turn off the power to your computer before making connections.

TIP: Place your hands on each side of the monitor to tilt the panel to a maximum tilt angle (Up 35° Down 5°) and lift up to the highest position. This provides easier access to the ports for connecting cables.



To maintain compliance with EMC regulations, use shielded cables to connect to the following terminals: USB port, USB Type-C port, HDMI input terminal and DisplayPort input terminal.

NOTE:
- Adjustment of the volume control to other settings than the center position may increase the ear-/headphones output voltage and therefore the sound pressure level.
- Incorrect cable connections may result in irregular operation, damage display quality/components of the LCD module and/or shorten the module's life.
- Make sure the signal cable is fully connected to the monitor and the computer.
- Check the USB flash drive for viruses as necessary.

Please adjust the screen position by referring to "Height and angle adjustment".

Parts name and Connecting Peripheral Equipment

■Digital input

- HDMI – High-definition digital video and audio signal connection to a computer, streaming media player, Blu-ray player, game console, etc.
- DisplayPort – High-definition digital video and audio signal connection to a computer.
- USB Type-C – Supports DisplayPort input of high-definition digital video and audio signal (DisplayPort Alt Mode on USB Type-C only) connection to a computer. This display does not support other USB Type-C Alt Modes such as MHL and HDMI. This port is not for use with USB devices such as mice, keyboards, or USB flash drives.

Depending on the computer, you may need to manually set the computer's audio to output through the DisplayPort, HDMI, or USB Type-C connection. Please refer to the computer's user manual.

The type of video connections that can be used to connect to a computer depends on the computer's display adapter.

For HDCP Content

HDCP is a system for preventing illegal copying of video data sent over a digital signal. If you are unable to view material via the digital inputs, this does not necessarily mean that the monitor is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected by HDCP and might not be displayed due to the decision/ intention of the HDCP community (Digital Content Protection, LLC). HDCP video content is generally commercially produced Blu-rays and DVDs, television broadcast, and streaming media services.

■Connecting to a Computer with HDMI

- Please use a HighSpeed HDMI cable with the HDMI logo.
- It may take a moment for the signal to appear after turning on the computer.
- Some display cards or drivers may not display an image correctly.
- If the monitor's power is turned on after a connected computer is turned on, sometimes an image is not displayed. In this case, please turn off the computer then turn it on again.

■Connecting to a Computer with DisplayPort

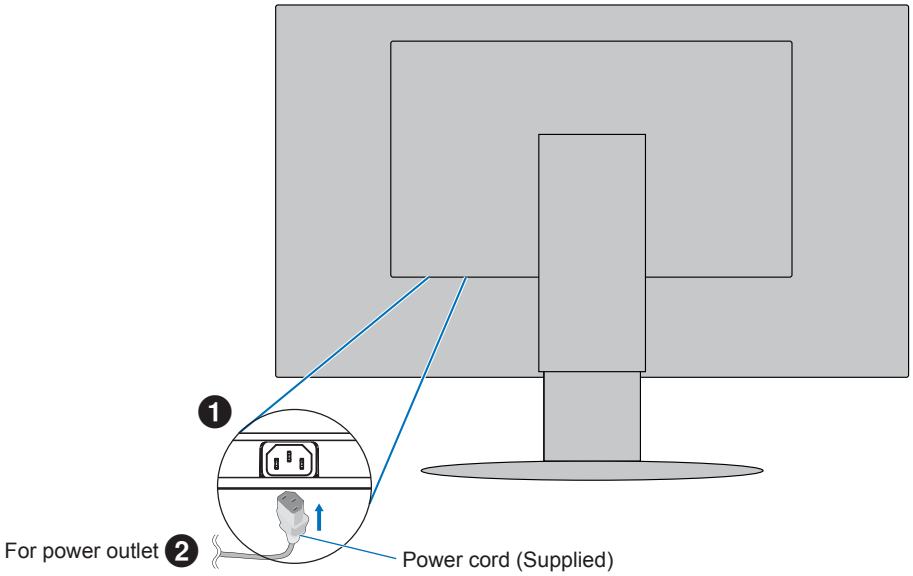
- Please use a certified DisplayPort cable.
- It may take a moment for the signal to appear after turning on the computer.
- When connecting a DisplayPort cable to a component with a signal conversion adapter, an image may not appear.
- Some DisplayPort cables feature a locking function. When removing this cable, hold down the top button to release the lock.
- If the monitor's power is turned on after a connected computer is turned on, sometimes an image is not displayed. In this case, please turn off the computer then turn it on again.
- Image inputs from DisplayPort input terminal outputs from the DisplayPort output terminal.

■Connecting to a Computer with USB Type-C (Upstream)

- When using the USB Type-C port for video / audio, please use a SuperSpeed USB cable with the USB compliance logo.
- HighSpeed USB (USB 2.0) cable or charging cable doesn't support video / audio transmission.
- When using the USB Type-C port for video / audio, please use a computer port that supports the DP Alt Mode.
- HDMI Alt Mode or MHL is not supported.
- When using computer battery charging (Power delivery), please use a computer and cable that support the USB Power Delivery.
- It may take a few seconds for the monitor to recognize the USB signal. Do not disconnect or reconnect the USB cable while the signal is being recognized.
- Before turning off the power switch of the monitor or turning off a connected computer, please turn off the USB function and remove the USB device from the monitor. Data may be lost or corrupted if the USB device is not disconnected properly.
- Image inputs from USB Type-C (Upstream) port outputs from the DisplayPort output terminal.
- The monitor is not guaranteed to work with all USB devices sold commercially.

Connecting the Power Cord

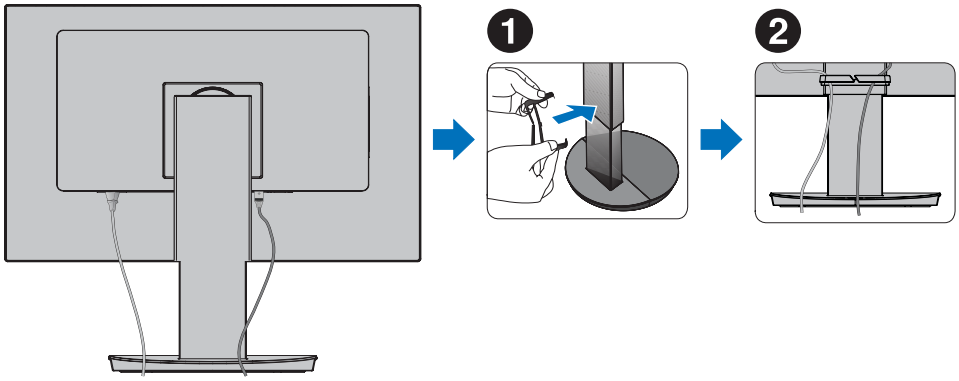
1. **Plug the power cord into the AC input terminal.**
2. **Plug the power cord into a power outlet.**



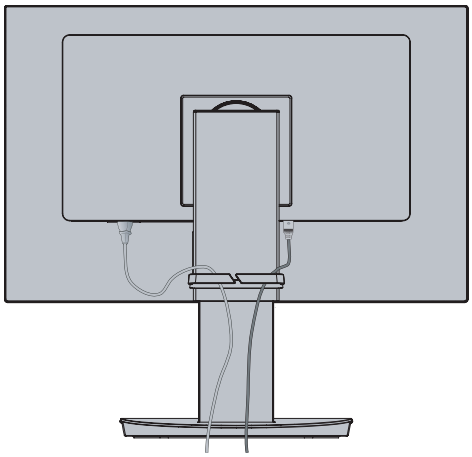
NOTE: Please make sure that enough power is supplied to the monitor. Please refer to power supply in the "Product Specifications" on page 42.

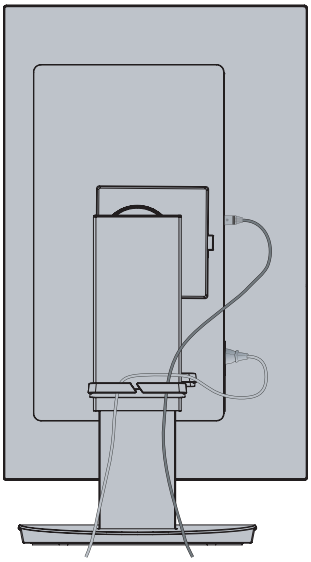
Using the cable holder

1. **Place the cable holder onto the stand.**
2. **Place the cables in the cable holder firmly and evenly.**



NOTE: Please check that you can still rotate, raise and lower the monitor screen after you have installed the cables.



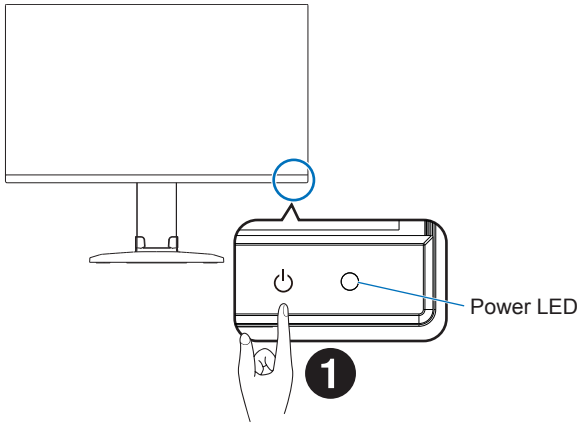


Turning Power On/Off

Turning power on/off

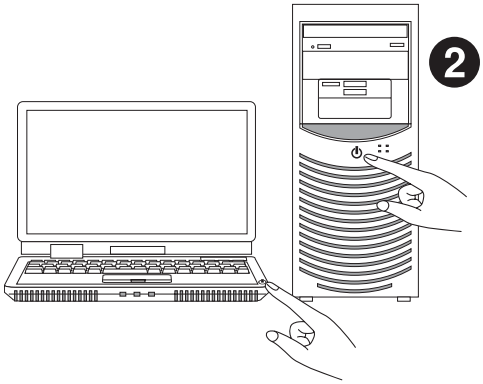
1. **Turn on the monitor by pressing the POWER key.**

   NOTE: If you have any problems please refer to the Troubleshooting section of this User's Manual (see page 37).



2. **Turn on the computer.**

   The power LED of this monitor lights up.



■Status of the monitor and patterns of the Power LED

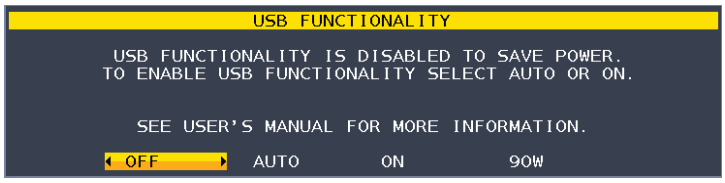
The power management function is an energy saving feature that automatically reduces the power consumption of the monitor when the keyboard or the mouse has not been used for a fixed period.

Power LED	Status	Power consumption	Condition
Blue*1	Maximum operation	Approx. 143 W (EA272Q) Approx. 155 W (EA272U)	All functions work.
Blue*1	Normal operation	Approx. 27 W (EA272Q) Approx. 31 W (EA272U)	Default setting.
Amber	Standby mode	Approx. 0.5 W*2 (EA272Q/EA272U)	• The monitor has passed a certain amount of time with no video signal input. • When [USB FUNCTIONALITY] is set to [OFF].
Off	Off mode	Approx. 0.3 W*2 (EA272Q/EA272U)	• Turn off the monitor by the POWER key. • When [USB FUNCTIONALITY] is set to [OFF].

*1: When [LED BRIGHTNESS] (See page 27) is set to low, LED may not lit.
*2: Power consumption depends on the setting of OSD or which devices are connected to the monitor.

TIP: This function works with computers that support VESA approved DPM (Display Power Management).

■Operations after first power-on



Initial Setting of USB FUNCTIONALITY

USB Hub/Type-C function/[USB LAN] in OSD menu are disabled as the default condition set at the factory and in the product's firmware; performing a FACTORY PRESET returns the function to its default disabled condition for reduced power consumption. When turning on the monitor for the first time or after FACTORY PRESET, the USB FUNCTIONALITY message is shown. Select a setting from below. The [USB LAN] settings in OSD menu need to be changed if you use the LAN terminal.

OFF: USB FUNCTIONALITY continues to be disabled.
AUTO: USB FUNCTIONALITY is used when the monitor power is ON.
ON: USB FUNCTIONALITY is used when the monitor power is ON and OFF.
90W: USB FUNCTIONALITY is used when the monitor power is ON and OFF. Changing the power distribution inside the monitor to make the USB Type-C (upstream) terminal be the main power supply. There are some function limitations when set to [90W]. Please refer to [USB FUNCTIONALITY] (page 28) for more detail.

Touch "<" and ">" keys for setting then touch "MENU/EXIT" key to close the message.

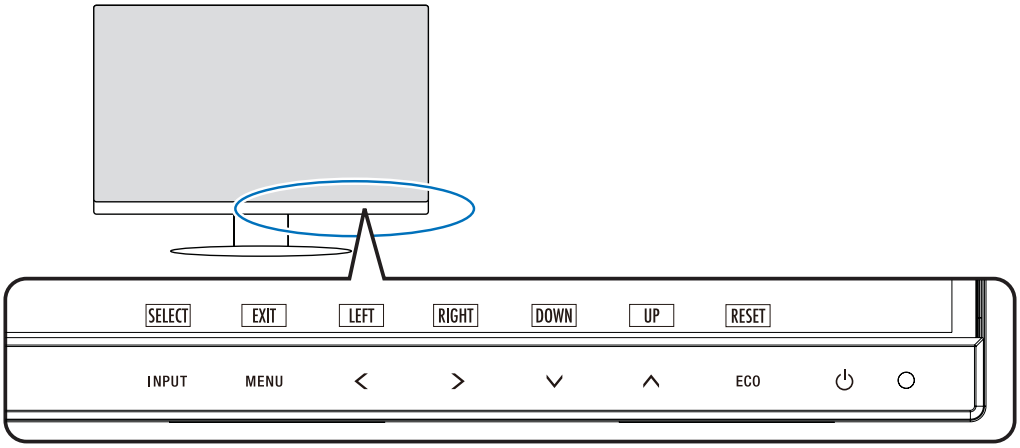
After this Initial Setting, another selection is possible by OSD menu.

■Automatic input switching function

When connecting signal cables to the monitor, the active input is automatically switched to the newly connected input if [VIDEO DETECT] is set to [FIRST] (See page 27).

Menu Items

Displaying the menu screen



Key	Function
INPUT/SELECT	When the OSD menu is closed, opens the menu for the input source. • Select an input from the inputs shown in white. Input source is shown like below: Yellow: Selected input source. White: Selectable input source. Gray: Not selectable. • You can directly change to the [L/B] (LOW BLUE LIGHT) mode by touching this key for 3 seconds or more when the OSD menu is closed.*1 TIP: If [VIDEO DETECT] is set to [FIRST], active input is automatically switched to the newly connected input. When the OSD menu is open, enters sub-menus in the OSD menu.
MENU/EXIT	Opens the OSD menu. Closes the OSD sub-menus and main menu. You can restore the saved settings in the [CUSTOMIZE SETTING] by touching this key for 3 seconds or more when the OSD menu is closed.
LEFT/RIGHT/ UP/DOWN*2	When the OSD menu is open, navigates through the OSD menu. When the OSD menu is closed, touch one of the following keys to open the menu for the function indicated.*1 ∧ key: [BRIGHTNESS] ∨ key: [VOLUME] > key: [USB SELECTION]
ECO/RESET	When the OSD menu is open, this key sends a reset command for the OSD settings. When the OSD menu is closed, this key switches the [ECO MODE] status. You can set a mode from [OFF], [1] and [2].*1
⏻ (POWER)	Turns the monitor on and off.
Power LED	Indicates that the power is on or off.

*1: When the [HOT KEY] function is [OFF], this function is disabled.
*2: Depending on the [OSD ROTATION] setting, [LEFT], [RIGHT], [UP] and [DOWN] key guides are displayed at the <, >, ∨, ∧ keys differently (see page 29).

■Example of operation

Adjusting the BRIGHTNESS menu.

1. **Touch MENU/EXIT key to open OSD menu.**
2. **Touch INPUT/SELECT key to enter sub-menu.**
3. **Touch < or > key to adjust brightness level.**
4. **Touch MENU/EXIT key to go back to Sub-menu. Touch the key again to close OSD menu.**

Adjusting the BRIGHTNESS is completed.



Menu item details

Below is a brief summary of where controls are under each menu item.

	ECO TOOLS: Environment friendly ECO settings.
	SCREEN: Screen settings.
	COLOR: Color settings.
	TOOLS: Volume, etc.
	MENU Tools: Language, signal information, etc.
	ECO INFORMATION: Displays information related to ECO.
	Information: Displays monitor information such as input, resolution, etc.

ECO TOOLS

ECO TOOLS Menu	
BRIGHTNESS	Adjusts the overall image and background screen brightness. If [ECO MODE] is set to [1] or [2], a bar for [CARBON FOOTPRINT] will appear.
CONTRAST	Adjusts the overall image and background screen brightness by input signal level. **TIP:** This function is disabled when [L/B] is selected in the Color Control System.
ECO MODE	Decreases the amount of power consumption by reducing the brightness level. **TIP:** This function is disabled when [DV MODE] (see page 25) is set to [DYNAMIC]. This function is disabled when Color Control System is set to [DICOM SIM.].
OFF	Does not function.
1	Sets the brightness variable range to 50 % (EA272Q/EA272U). A [CARBON FOOTPRINT] bar will appear alongside the [BRIGHTNESS] adjustment bar.
2	Sets the brightness variable range to 20 % (EA272Q/EA272U). A [CARBON FOOTPRINT] bar will appear alongside the [BRIGHTNESS] adjustment bar.
AUTO BRIGHTNESS	Automatically adjusts the brightness. **TIP:** This function is disabled when [DV MODE] is set to [DYNAMIC]. This function is disabled when Color Control System is set to [DICOM SIM.].
OFF	Does not function.
ON (AMBIENT LIGHT)	Adjusts the brightness to the optimal setting by detecting the brightness level of the environment.*1
BLACK LEVEL	Adjusts the brightness level of black when displayed on screen.
OFF MODE SETTING	The Intelligent Power Manager allows the monitor to enter into power saving mode after a period of inactivity.
OFF	The monitor enters into power saving mode automatically when the input signal is lost.
ON	The monitor enters into power saving mode automatically when the amount of surrounding light goes below the level determined by you. The level can be adjusted in the [OFF MODE SENSOR SETTING]. When in power saving mode, the LED on the front of the monitor becomes dark blue. When in power saving mode, touch any of the front keys, except for POWER and INPUT/SELECT keys, to return to normal mode. When the amount of surrounding light returns to normal levels, the monitor will automatically return to normal mode.
SENSOR SETTING (OFF MODE SETTING)	Adjusts the threshold level for the ambient light sensor for detecting low light conditions and shows the current sensor measurement result.
START TIME (OFF MODE SETTING)	Adjusts the wait time to enter into a lower power consumption level when the ambient light sensor detects low light conditions.

*1: Please refer to page 36 for full “Auto Brightness” information.

ECO TOOLS Menu	
HUMAN SENSING	The sensor detects the movement of a person by using the [HUMAN SENSING] function. The [HUMAN SENSING] function has three settings. **TIP:** Detects a person within about 1.5 m from the monitor.
OFF	Does not function.
1 (LIGHT)	After it detects that there is no person during a period of time, the monitor shifts to low brightness mode automatically to reduce the power consumption. When a person comes near the monitor again, the monitor will automatically return to normal mode. [START TIME] adjusts the period of time to wait before entering low brightness mode.
2 (DEEP)	After it detects that there is no person, the monitor shifts to power saving mode automatically to reduce the power consumption. When a person comes near the monitor again, it resumes from the power saving mode.
SENSOR SETTING (HUMAN SENSING)	Adjusts the threshold level of [HUMAN SENSING]. When the human icon is located on the right side of the white color bar or vermilion color wave, a person is not detected. **TIP:** The [HUMAN SENSING] function starts after the OSD menu is closed.
START TIME (HUMAN SENSING)	Adjusts the wait time before entering to low brightness mode or power saving mode when the Human Sensor detects no person.
DV MODE	Dynamic Visual Mode allows you to select from the following settings: **TIP:** • This function is disabled when Color Control System is set to [L/B], [PROGRAMMABLE] or [DICOM SIM.]. • When [USB FUNCTIONALITY] is set to [90W], [DV MODE] will set to [STANDARD] automatically then not changeable. • [STANDARD] is used for TCO Certificate compliance. • When [MOVIE], [GAMING], or [PHOTO] is selected, Color Control System is set to [N(NATIVE)] automatically.
STANDARD	Standard setting.
TEXT	Setting that makes letters and lines crisp; best suited for basic word processing and spreadsheets.
MOVIE	Setting that boosts dark tones; best suited for movies.
GAMING	Setting that boosts whole tones; best suited for games that use vivid, colorful images.
PHOTO	Setting that optimizes contrast; best suited for still images.
DYNAMIC	Setting that adjusts the brightness by detecting the screen's black areas and optimizes it.

Menu Items

SCREEN

SCREEN Menu	
VIDEO LEVEL HDMI input only	
NORMAL	Setting for use with a computer. Displays all input signals of 0-255 steps.
EXPAND	Setting for use with audio visual equipment. Expands input signals of 16-235 steps to 0-255 steps.
OVER SCAN HDMI input only	Some video formats may require different scanning modes in order to best display the image.
ON	Image size is larger than what can be displayed. The image edge will appear cropped. Approximately 95 % of the image will be shown on the screen.
OFF	Image size stays within the display area. The whole image is displayed on the screen.
EXPANSION	Sets the zoom method.
FULL	The image is expanded to full screen regardless of the resolution.
ASPECT	The image is expanded without changing the aspect ratio.
RESPONSE IMPROVE	Turns the [RESPONSE IMPROVE] function [ON] or [OFF]. This function may reduce blurring that occurs in some moving images.
UNIFORMITY	This function electronically compensates for the slight variations in the white uniformity level as well as for deviations in color that may occur throughout the display area of the screen. These variations are characteristic of LCD panel technology. This function improves the color and evens out the luminance uniformity of the display. **NOTE:** Using the UNIFORMITY feature does reduce the overall peak luminance of the display. If greater luminance is desired over the uniform performance of the display, then UNIFORMITY should be turned off. “ON” produces a better effect, but may also reduce the CONTRAST RATIO.
SHARPNESS	Adjusts the crispness of the image.

COLOR

COLOR Menu	
Color Control System	Color presets are available for adjusting color settings.
1, 2, 3, 4, 5	Increases or decreases the [RED], [GREEN] or [BLUE] color depending upon which is selected. The change in color will appear on screen and the direction (increase or decrease) will be shown by the bars. sRGB (color preset mode [4]) dramatically improves the color fidelity in the desktop environment by a single standard RGB color space. With this color-supported environment, the operator could easily and confidently communicate color without further color management overhead in most common situations.
NATIVE	The LCD panel’s original colors that cannot be adjusted.
L/B (LOW BLUE LIGHT)	Reduces blue light emitted from monitor. This item cannot be adjusted. **TIP:** You can directly change to [L/B] (LOW BLUE LIGHT) by touching the INPUT/SELECT key for 3 seconds or more. Low Blue Light function substantially reduces blue light and helps to alleviate eye-strain. For changing to other settings from [L/B], touch the MENU/EXIT key to show OSD menu and enter Color Control System. When [L/B] is selected in Color Control System, [CONTRAST] and [DV MODE] are disabled.
DICOM SIM.	The white point color temperature and the gamma curve are set to a DICOM simulation. This item cannot be adjusted. **NOTE:** Do not use for diagnostic purposes.
PROGRAMMABLE	The gamma curve is adjustable through application software. * This function is not available with this monitor.

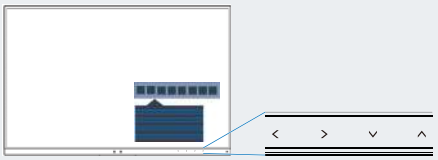
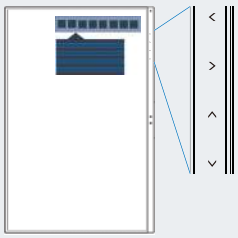
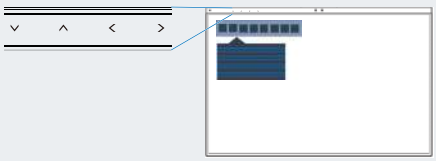
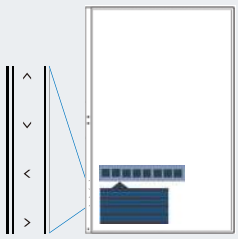
TOOLS

TOOLS Menu	
VOLUME	Controls the volume of the speakers (EA272U only) or headphones. To mute the sound output, touch the ECO/RESET key.
VIDEO DETECT	Selects the method of video detection.
FIRST	When the current video input signal is not present, the monitor searches for a video signal from the other video input ports. If the video signal is present in another port, the monitor switches the video source input to the detected video source automatically. The monitor will not look for other video signals while the current video source is present.
NONE	Video input signal detection is not enabled.
DP OUT MULTISTREAM	Selects the DisplayPort mode. **TIP:** When the monitor has no image, refer to "Using the DP OUT MULTISTREAM function" on page 33.
CLONE	Sets SST (single-stream transport). Default is [CLONE].
AUTO	Displays in SST (single-stream transport) or MST (multi-stream transport). [AUTO] should be selected when using MST (multi-stream transport).* If multiple monitors are set to [SST], an individual image is displayed at each monitor. *: MST (multi-stream transport) and SST (single-stream transport) require the computer display adapter supports the feature. Please refer to the user instructions for the computer or display adapter.
OFF TIMER	The monitor will automatically power off after a period of time has passed, which you can set. Before powering off, a message will appear on the screen asking if you want to delay the turn off time by 60 minutes. Touch any OSD key to delay the power-down time.
POWER SAVE TIMER	Allows the monitor to turn off automatically after 2 consecutive hours in power save mode.
LED BRIGHTNESS	Adjusts the Power LED brightness.
DDC/CI	Turns the [DDC/CI] function [ON] or [OFF].
USB SETTING	Sets the transfer speed for the USB Type-C (Upstream) port. USB2.0: The maximum transfer speed is equivalent to USB 2.0. USB3.2: The maximum transfer speed is equivalent to USB 3.2. **TIP:** • To avoid data loss, before changing the setting, ensure that no USB flash drives are in use by the operating system. • In MST mode, OSD various settings (USB SETTING, DP VER, BIT RATE) or the computer may be limited in the displaying of high resolutions or high reflesh rate.

Menu Items

TOOLS Menu	
USB FUNCTIONALITY	Selects how power through the USB Type-A port and USB Type-C port, input signal from USB Type-C, and external communication of USB are enabled in relation to the monitor's power status. **TIP:** • Actual power consumption depends on the connected USB device even when the monitor's power is off. • To avoid data loss, before changing the setting, ensure that no USB flash drives are in use by the operating system. • When turning on the monitor for the first time or after FACTORY PRESET or [USB FUNCTIONALITY] is set to [OFF], USB FUNCTIONALITY message is shown when a USB-C cable is connected to the monitor. Please select a setting.
AUTO	Works based on the monitor's current power state. Does not word when power is OFF.
ON	Always working even when the monitor is in power save mode or power off.
90 W	Always working even when the monitor is in power save mode or power off. Power delivery of the USB Type-C (Upstrem) Port is 90 W. **TIP:** • Power delivery of the USB Type-C (Downstrem) Port is limited 5V/0.9A. • Sound output from speaker is disable (EA272U only). • Brightness adjustment is limited 50 %. • [DV MODE] is set to [Standard] automatically and cannot be changed.
OFF	All USB functions (include USB Type-C video signal) are disabled.
USB LAN	Turns the LAN terminal [ON] or [OFF]. When using the LAN terminal, set this [ON]. Please refer to "Using the USB LAN function" on page 32.
USB SELECTION	Change the USB upstream input (USB Type-B or USB Type-C) associated with the current display input. When connecting a computer to each of the upstream ports, the monitor's USB downstream ports can be used by selecting this setting for the current input signal. You can change the active display and upstream USB port combination by using the INPUT/SELECT key (see page 22).When using only one upstream port, the connected upstream port is used by default. **TIP:** To avoid data loss, before changing USB upstream ports, ensure that no USB flash drives are in use by the operating system of the computer attached to the USB upstream port.
FACTORY PRESET	Selecting [FACTORY PRESET] allows you to reset all OSD control settings back to the factory settings except [LANGUAGE], [HOT KEY] and [OSD LOCK OUT]. Individual settings can be reset by touching the ECO/RESET key.

MENU TOOLS

<table>
<tr><th colspan="2">MENU TOOLS Menu</th></tr>
<tr><td>LANGUAGE</td><td>Selects the language used by the OSD.</td></tr>
<tr><td>OSD TURN OFF</td><td>The OSD menu will stay open as long as it is in use. You can select how long the monitor waits after the last key touch to close the OSD menu. The preset choices are 10-120 seconds by 5-second increments.</td></tr>
<tr><td>OSD LOCK OUT</td><td>This control completely locks out access to all OSD control functions except for [BRIGHTNESS], [CONTRAST] and [VOLUME].
To activate the [OSD LOCK OUT] function, open the OSD menu, select [OSD LOCK OUT], then touch INPUT/SELECT and > keys simultaneously. To deactivate, open the OSD menu then while OSD menu is open, touch INPUT/SELECT and < keys simultaneously.</td></tr>
<tr><td>OSD ROTATION</td><td>This controls the OSD menu rotation.
Depending on the image angle (monitor rotation), select a suitable [OSD ROTATION] setting.
TIP: Please set the [KEY GUIDE] to [ON] to display the key guide.
<table>
<tr><th>Setting (Angle)</th><th>Image</th><th>Key guide</th></tr>
<tr><td>0</td><td></td><td rowspan="4"><: LEFT
>: RIGHT
⋁: DOWN
⋀: UP</td></tr>
<tr><td>90</td><td></td></tr>
<tr><td>180</td><td></td></tr>
<tr><td>270</td><td></td></tr>
</table></td></tr>
</table>

Menu Items

MENU TOOLS Menu	
HOT KEY	When this function is [ON], [BRIGHTNESS], [VOLUME] and [ECO MODE] can be changed without opening the OSD menu.
ON	
BRIGHTNESS	Touch the ∧ key, then adjust the [BRIGHTNESS] level in the sub-menu that opens.
VOLUME	Touch the ∨ key, then adjust the [VOLUME] level in the sub-menu that opens.
USB SELECTION	Touch the > key to open the USB SELECTION sub-menu.
ECO MODE	Touch the ECO/RESET key, the [ECO MODE] sub-menu opens. You can toggle among 3 selections: [OFF], [1] and [2].
OFF	The [HOT KEY] function for the ECO/RESET key, > key, ∧ key and ∨ key are disabled.
SIGNAL INFORMATION	
ON	If you select [ON], the monitor displays “VIDEO INPUT” after changing the input. **TIP:** The compliance marks that are shown when powering on the monitor the first time are not shown when switching inputs. The compliance marks are not shown again unless the AC power cord has been disconnected at the power off status and reconnected.
OFF	If you select [OFF], the monitor does not display “VIDEO INPUT” after changing the input. **TIP:** Setting [OFF] also prevents the compliance marks from being shown when powering on the monitor.
SENSOR INFORMATION	
ON	If you select [ON], the monitor displays a “HUMAN SENSOR ON” message.
OFF	If you select [OFF], the monitor doesn’t display the “HUMAN SENSOR ON” message.
KEY GUIDE	If you select [ON], the Key Guide appears on screen when the OSD menu is accessed.
CUSTOMIZE SETTING	Store the current settings for easy recovery. **To store current settings:** Open the OSD menu, select [CUSTOMIZE SETTING], then touch the INPUT/SELECT key. Touch the ECO/RESET key, the current settings are stored. **To restore settings:** Touch the MENU/EXIT key for 3 seconds or more when the OSD menu is closed.

■ ECO INFORMATION

ECO INFORMATION Menu	
CARBON SAVINGS	Displays the estimated carbon savings information in kg.
CARBON USAGE	Displays the estimated carbon usage information in kg. This is an arithmetic estimation, not actual measurement value.
COST SAVINGS	Displays the electricity cost savings in balance.
CARBON CONVERT SETTING	Adjusts the carbon footprint factor in the carbon saving calculation. This initial setting is based on the OECD data (2008 Edition).
CURRENCY SETTING	Displays electricity pricing in 6 currency units.
CURRENCY CONVERT SETTING	Displays electricity savings in kW/hour (US Currency is default). **TIP:** The initial setting is US Dollar [$] in [CURRENCY SETTING] and $ [0.11] in [CURRENCY CONVERT SETTING]. This setting can be changed by using the [ECO INFORMATION] menu. If you want to use the French setting, please refer to the steps below: 1. Touch the MENU/EXIT key and select the [ECO INFORMATION] menu using the < or > key. 2. Select the [CURRENCY SETTING] item by touching the ∧ or ∨ key. 3. The French currency unit is Euro [€]*. You can adjust currency setting to Euro icon [€] from US Dollar [$] by touching the < or > key in [CURRENCY SETTING] item. 4. Select [CURRENCY CONVERT SETTING] by touching the ∧ or ∨ key. 5. Adjust [CURRENCY CONVERT SETTING] by touching the < or > key. * This initial Euro [€] setting is based on the OECD data for Germany (2007 Edition). Please check the receipt of electricity prices for France or OECD data for France. The French value according to the OECD data (2007 Edition) was €0.12. €

■ INFORMATION

INFORMATION Menu	
INFORMATION	Provides information about the current input signal, the model, serial numbers and USB Type-C port's status of your monitor.

■OSD Warning

OSD warning messages close by touching the MENU/EXIT key.

NO SIGNAL: This function gives a warning when there is no horizontal or vertical sync. After power is turned on or when there is a change of input signal, the **"NO SIGNAL"** window will appear. See page 34.

OUT OF RANGE: This function gives a recommendation of the optimized resolution and refresh rate. After the power is turned on, or there is a change of input signal, or if the video signal doesn't have proper timing, the **"OUT OF RANGE"** message will appear.

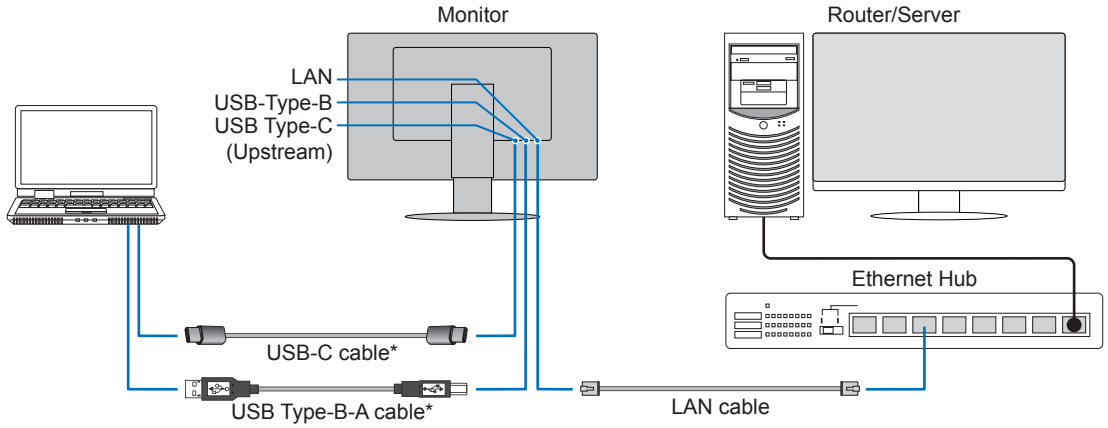
USB functionality: This message gives a request to set [USB FUNCTIONALITY] setting. See page 28.

Remove USB-C cable: This function gives a warning when abnormal voltage is detected on USB Type-C port. Please refer to "USB Type-C device does not work" in troubleshooting. See page 40.

Using the USB LAN function

Provides stable and high-speed data communication by LAN (RJ-45) connection.

Example of LAN connection:



* Connect the monitor to the computer via a USB-C cable or USB-Type-B - Type-A cable.

Preparation Before Use

- When connecting the monitor to the computer via a USB Type-B port, set the [USB SELECTION] to [USB]. If USB-Type-C (Upstream) port, set the [USB SELECTION] to [USB-C].
- The standard driver is installed automatically. Depending on the computer or OS, a manual driver installation may be required (see page 40).
- Please set the [USB FUNCTIONALITY] to [ON] or [AUTO] or [90W].
- Please set the [LAN USB] to [ON].
- After connecting a LAN cable to the monitor, make sure the LED on the side of the LAN terminal lights up.
- This monitor supports 1000 Mbps communication. Please make sure to use a compatible LAN cable when connecting to a 1000 Mbps network.
- LAN-to-USB conversion may not work and depends on the computer and its operating system. Any devices connected to the monitor or computer may cause interference. Make sure to use a compatible USB Type-C cable or USB-Type-B - Type-A cable that transmits LAN signal; e.g., a power delivery only or USB 2.0 cable will not work.
- If LAN-to-USB conversion does not work, check if the connected computer supports LAN communication over USB. Refer to the computer's product manual for additional information.

OSD	USB FUNCTIONALITY	AUTO			ON/90W			OFF		
	USB LAN	ON			ON			Disable		
Power	Power state	ON	PSM	OFF	ON	PSM	OFF	ON	PSM	OFF
	Power LED	Blue	Amber	OFF	Blue	Amber	OFF	Blue	Amber	OFF
USB	Power Delivery	Enable		OFF	Enable		Enable	Disable		OFF
	HUB									
	LAN									

PSM is an abbreviation of power save mode.

Using the DP OUT MULTISTREAM function

You can daisy-chain monitors to each other using the DisplayPort input terminal and DisplayPort output terminal connections on the monitors.
For using connected monitors in MST (multi-stream transport) mode, the setting should be DP OUT MULTISTREAM “AUTO” for each monitor. Please change the setting for the monitor that connects to the computer last.
If the monitors do not display an image, turn off the monitor connected to the computer then turn it back on.
Configuring the DisplayPort connections may be necessary. Please refer to the table below and change the settings as needed.

OSD (see page 27)	
DP OUT MULTISTREAM “CLONE”	Factory setting. DisplayPort 1.1a/1.2/1.4 setting with: – SST (single-stream transport).
DP OUT MULTISTREAM “AUTO”	DisplayPort 1.2/1.4 setting with: – SST (single-stream transport) and MST (multi-stream transport).

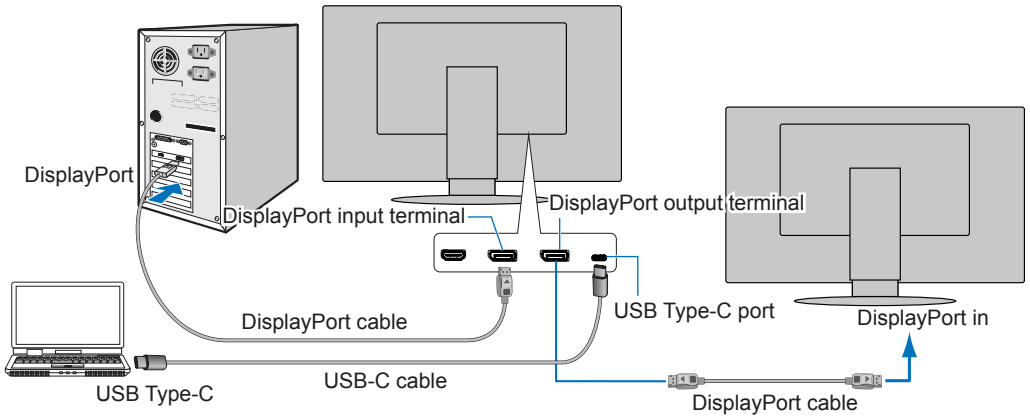
Depending on the display adapter settings in the operating system for the connected computer, the image may not extend. Please refer to the user instructions for the computer to change the settings.

TIP:
- Please use a certified DisplayPort cable.
- We strongly recommend using the same monitor model for all monitors in the connected daisy-chain.
- Remove the cap from the DisplayPort output terminal on the monitor.
- Please contact your display adapter supplier for detailed information.
- When DisplayPort or USB Type-C is selected as input, the video signal is output from the DisplayPort output terminal. When HDMI is selected as input, no video signal is output from the DisplayPort output terminal.

	BIT RATE	Connection with computer	Connection between monitors	Maximum number of connectable monitors (including this monitor)
MST (multi-stream transport)	HBR3 (Default setting)	DisplayPort or USB Type-C	DisplayPort	2 units (including HDCP contents)
	HBR2			
	HBR			

TIP:
- In MST mode, OSD various settings (USB SETTING, DP VER, BIT RATE) or the computer may be limited in the displaying of high resolutions or high reflesh rate.
- The number of monitors that can daisy-chain, from a single connection to the computer, depends on the display adapter capabilities and its settings. Please refer to the user instructions for the computer or display adapter.
- When [DP OUT MULTISTREAM] is set to [AUTO], we recommend setting [VIDEO DETECT] to [NONE]. It might contribute to better stability at returning from Power saving or power off.
- When using the USB Type-C port to connect to a computer and MST is enabled on the monitor, the device may detect and connect as a HighSpeed (USB 2.0) device even if it complies with SuperSpeed (USB 3.0).
  In this situation, the USB hub is temporarily disconnected when switching between SuperSpeed and Hi-Speed.

Using the DP OUT MULTISTREAM function



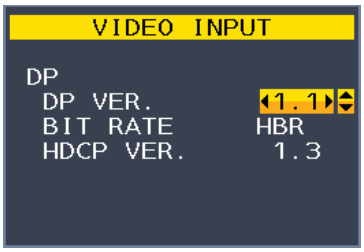
TIP:
- When the monitor has no image, follow the troubleshooting step "Recovering from no image" on page 34 and select DP VER [1.1].
- When set the MST function is selected, the power management function according to the ErP directive doesn't work.
- The USB hub is disconnected temporarily when changing the setting of [DP OUT MULTISTREAM]. Please remove any USB devices before changing the setting.

  If displaying images in multi-stream, please refer to [DP OUT MULTISTREAM] (see page 27).

■Recovering from no image

If the monitors do not display an image after configuring [DP OUT MULTISTREAM], please follow the instructions below:
Please set the settings to DisplayPort and USB Type-C individually.

1. **Turn off the computer.**
2. **Touch the MENU/EXIT key to open the [NO SIGNAL] OSD menu.**
3. **Touch the ∨ key to open the [VIDEO INPUT] menu.**
4. **Touch the ∧ or ∨ key to open the DisplayPort switch menu.**
5. **Select [DP VER] [1.1] to switch the DisplayPort setting.**
6. **Touch the MENU/EXIT key to close the OSD menu.**
7. **Turn on the computer.**



TIP:
- MST (multi-stream transport) and SST (single-stream transport) requires a corresponding display adapter. Check to make sure that the display adapter supports MST (multi-stream transport). Please refer to the user instructions for the computer to change the settings.
- Please use a certified DisplayPort cable.

Using the HUMAN SENSING function

The Human Sensing function reduces power consumption by detecting the movement of a person.

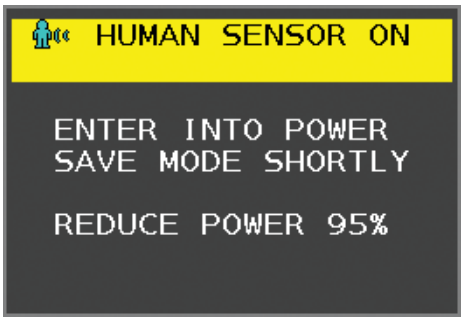
The [HUMAN SENSING] has following two settings:

MODE	HUMAN SENSING SETTING	No person in front of the monitor
LIGHT	1	BRIGHTNESS 0 %
DEEP	2	Power saving mode

Image of human sensing operation

A. When the sensor detects no person in front of the monitor, the monitor stays on for the period of time which is set at [HUMAN SENSING] ➞ [START TIME] (see page 25).

B. The monitor displays a notification on the screen after the period of time with no human detected has passed. You can set the notification screen at [SENSOR INFORMATION] (see page 30).

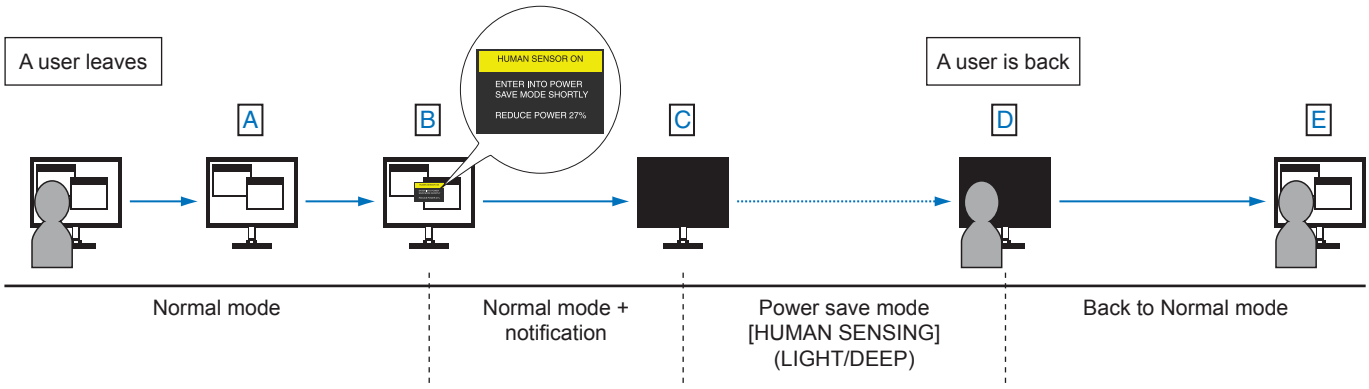


C. After displaying the notification, if [LIGHT] is set at [HUMAN SENSING], the monitor screen gets gradually darker until it gets to 0 % brightness.
If [DEEP] is set at [HUMAN SENSING], the monitor enters into power saving mode.

D. When the sensor detects a person coming back, the monitor is automatically returned from power saving mode to normal mode.

TIP: When [LIGHT] is set at [HUMAN SENSING], the monitor screen gets gradually brighter as it returns to the original brightness.

E. The monitor returns to normal mode.



Using the AUTO BRIGHTNESS function

The brightness of the LCD screen can be set to increase or decrease depending on the amount of ambient lighting 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.

SETUP

Use the following procedures to select the brightness range the monitor will use when the [AUTO BRIGHTNESS] function is activated.

1. **Set a level for the bright room condition.**

   This is the maximum brightness level the monitor will rise to when the ambient lighting level is highest. Configure this setting when the room is at its brightest.
   Select [ON] in the [AUTO BRIGHTNESS] menu (**Figure 1**). Then use the front Keys to move the cursor up to the [BRIGHTNESS] setting. Choose the desired brightness level (**Figure 2**).

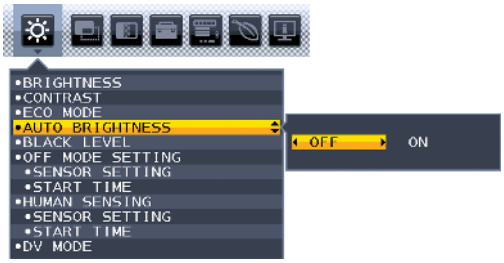


Figure 1



Figure 2

2. **Set a level for the dark room condition.**

   This is the minimum brightness level the monitor will lower to when the ambient lighting level is low. Make sure the room is at its darkest when setting this level. Then use the front Keys to move the cursor up to the [BRIGHTNESS] setting. Choose the desired brightness level (**Figure 3**).



Figure 3

When the [AUTO BRIGHTNESS] function is enabled the Brightness level of the screen changes automatically according to the lighting conditions of the room (**Figure 4**).

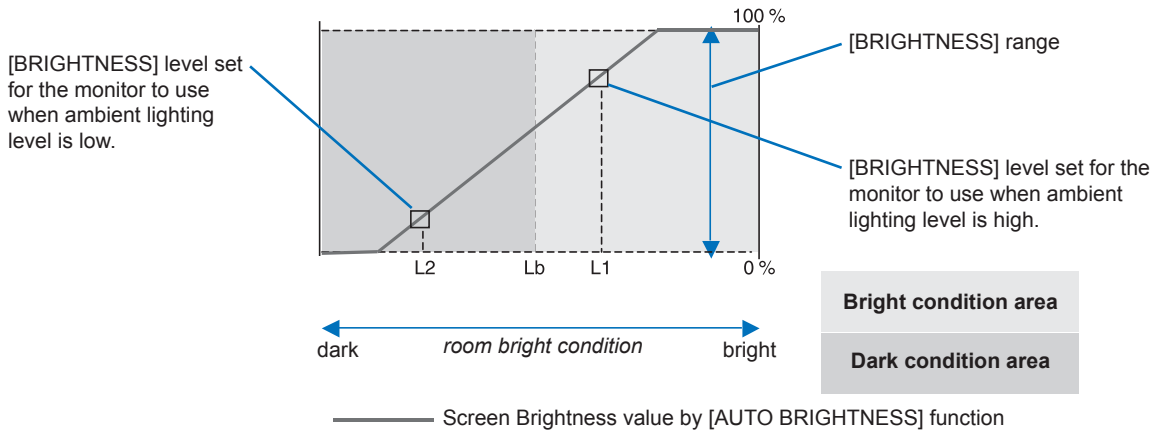


Figure 4

Lb: Border between bright and dim lighting conditions; set at the factory
L1: [BRIGHTNESS] level set for the monitor to use when ambient lighting level is high (L1>Lb)
L2 : [BRIGHTNESS] level set for the monitor to use when ambient lighting level is low (L2<Lb)
L1 and L2 are the brightness levels set by the user to compensate for changes in ambient lighting.

Troubleshooting

■Screen Image and Video Signal Issues

No picture

- Make sure the signal cable is fully connected to the monitor and the computer.
- Make sure the computer's display card is fully seated in its slot.
- Make sure there is no DisplayPort converter adapter connected. The monitor does not support DisplayPort converter adapter.
- Make sure both the computer and monitor are powered on.
- The monitor may be in power saving mode. The monitor automatically goes into standby at the preset time period after the video signal is lost.
- If the current input terminal connection has no active input signal, touch the INPUT/SELECT key to switch inputs.
- If the OSD menu setting [VIDEO DETECT] is set to [NONE], change the setting to [FIRST].
- Make sure that a supported resolution has been selected on the display card or system being used. If in doubt, please refer to the user's manual of the display controller or system to change the resolution.
- Check the monitor and your display card with respect to compatibility and recommended signal timings.
- Check the signal cable connector for bent or pushed-in pins.
- Make sure the connected device outputs a signal to the monitor.
- If the front LED is dark blue, check the status of the [OFF MODE SETTING] (see page 24) or [HUMAN SENSING] (see page 25).
- When using a USB-C cable for connecting a computer to the monitor, please check that the connected computer's port complies with DisplayPort Alt Mode.
- When using a USB-C cable for connecting a computer to the monitor, check that the USB-C cable complies with SuperSpeed USB.
- If the image of 3840 x 2160 resolution (EA272U), 2560 x 1440 resolution (EA272Q) is noisy, unstable or there is no video, please refer to "Recovering from no image" (see page 34).
- The monitor will automatically turn off by the "POWER SAVE TIMER" function when the "POWER SAVE TIMER" setting is "ON" and continues in power save mode for 2 hours. Please touch the power key.
- Make sure that a USB-C cable connects to the USB Type-C (Upstream) port. If the cable is connected to the USB Type-C (Downstream) port, image is not displayed (EA272U only).

Image Persistence

- If a ghost or residual image occurs, please check Image Persistence (see page 10).

Selected resolution is not displayed properly

- If the resolution you set is over or under a range, "OUT OF RANGE" window will appear then warn you. Please set supported resolution at the connected computer.

The image is unstable, unfocused or swimming is apparent

- Make sure the signal cable is fully connected to the monitor and the computer.
- Check the monitor and your display card with respect to compatibility and recommended signal timings.
- If your text is garbled, change the video mode to non-interlace and use the 60Hz refresh rate.
- If the image of 3840 x 2160 resolution (EA272U), 2560 x 1440 resolution (EA272Q) is noisy, unstable or there is no video, please refer to "Recovering from no image" (see page 34).
- Some HDMI cable may not display an image correctly. If input resolution is 3840 x 2160, please use a HighSpeed HDMI cable that supports 4K resolution (EA272U only).

Picture is not bright

- If the brightness fluctuates, make sure [DV MODE] is set to [STANDARD].
- Make sure [ECO MODE] and [AUTO BRIGHTNESS] are turned off.
- If the brightness fluctuates, make sure [AUTO BRIGHTNESS] is turned off.
- Make sure the signal cable is fully connected to the monitor and the computer.
- LCD brightness degradation occurs due to long-term usage or extreme cold conditions.
- When using an HDMI input terminal, please change [VIDEO LEVEL] (see page 26).
- Change setting of the [USB FUNCTIONALITY] other than [90W].

Display image is not sized properly

- Make sure that a Major Supported Timings has been selected for the display card in the system being used.
  (Please consult the manual for the system or display card for supported resolution and changing the settings.)
- When using an HDMI input terminal, please change [OVER SCAN] (see page 26).

Brightness variations over time

- Change [AUTO BRIGHTNESS] to [OFF] and then adjust the [BRIGHTNESS].
- Change [DV MODE] to [STANDARD] and then adjust the [BRIGHTNESS].

TIP: When [AUTO BRIGHTNESS] is set to [ON], the monitor automatically adjusts brightness based on the environment.
When the brightness of surrounding environment changes, the monitor will also change.
When [DV MODE] is set to [DYNAMIC], the monitor automatically adjusts brightness based on the video signal.

Displayed OSD menu is rotated

- Make sure of the [OSD ROTATION] setting.

No picture in multiple monitor connection

- Check to make sure that the resolution is lower than the recommended resolution setting.
- Check to make sure that the display card supports MST (multi-stream transport).
- The number of monitors daisy chained through SST (single-stream transport) depends on HDCP contents limitation.
- Please use a certified DisplayPort cable.

■Hardware Issues

POWER Key does not respond

- Unplug the power cord of the monitor from the AC outlet to turn off and reset the monitor.

LED on monitor is not lit (no blue or amber color can be seen)

- Make sure the power cord is properly connected to the monitor and the wall, and make sure the monitor's power switch is on.
- Increase the [LED BRIGHTNESS] adjustment.

No Video

- If no video is present on the screen, turn the POWER key off and on again.
- Make sure the computer is not in a power-saving mode by touching the connected keyboard or the connected mouse.
- When using DisplayPort, some display cards do not output video signal under low resolution modes when the monitor is turned OFF/ON or disconnected/connected from the AC power cord.
- When using an HDMI input terminal, please change [OVER SCAN] (see page 26).
- Make sure [VIDEO DETECT] is set to [NONE] (see page 27).
- Make sure [USB FUNCTIONALITY] is set to [AUTO] or [ON] or [90W] (see page 28).
- If the image of 3840 x 2160 resolution (EA272U), 2560 x 1440 resolution (EA272Q) is noisy, unstable or there is no video, please refer to "Recovering from no image" (see page 34).

No Sound

- Check to see if [MUTE] is activated.
- Check to see if [VOLUME] is set to a minimum.
- Check to see if the computer supports an audio signal through DisplayPort, HDMI or USB Type-C.
- Connect headphones to the monitor (EA272Q only).
- Change setting of the [USB FUNCTIONALITY] other than [90W] to output sound from speaker (EA272U only).

The USB Hub does not operate

- Check to make sure that the USB cable is properly connected. Refer to your USB device User's Manual.
- Check that the USB upstream port on the monitor is connected to the USB downstream port on the computer, and make sure the computer is ON.
- Make sure the USB-C cable is properly connected.
- Check the [USB FUNCTIONALITY] settings (see page 28).
- Turn the power switch off and on again.

Human sensor does not work

- Make sure there is no object in front of the Human sensor.
- Make sure there is no equipment that radiates infrared rays in front of the monitor.

USB Type-C device does not work

“Warning: Remove USB-C cable” OSD was shown.

- The monitor detected abnormal voltage or current on USB Type-C port. Please remove USB-C cable immediately.

No picture

- Make sure [USB FUNCTIONALITY] is set to [AUTO] or [ON] or [90W] (see page 28).
- Check if the connected USB Type-C device complies with DisplayPort Alt Mode on USB Type-C.
- Check if the USB-C cable complies with SuperSpeed USB.

Charging is not started or unstable.

- Make sure [USB FUNCTIONALITY] is set to [AUTO] or [ON] or [90W] (see page 28).
- Check if the connected USB Type-C device complies with USB Power Delivery.
- Check if the USB-C cable complies with USB Power Delivery.
- The monitor might have excessive voltage or over current on USB Type-C port. Please remove the USB-C cable immediately.
- If you still have trouble, unplug the monitor’s power cord from the AC outlet and then remove the USB-C cable. Reconnect the power cord and then the USB-C cable.
- When [USB FUNCTIONALITY] is set to [90W], power delivery of the USB Type-C (Downstrem) Port is limited 5V/0.9A.

Transfer speed is slow

- Check [USB SETTING] and set to [USB3.2].

LAN terminal does not work

- When applying 1000 Mbps communication, please use a compatible LAN cable.
- Make sure a computer is connected to the monitor with a USB-C cable.
- Make sure the LED lights up when connecting a LAN cable to the monitor.
- Please refer to "Parts name and Connecting Peripheral Equipment" on page 13 for information about the LAN terminal’s LEDs states.
- Check if [USB FUNCTIONALITY] is set to [AUTO] or [ON] or [90W].
- Check if [USB LAN] is set to [ON].
- Make sure the driver is installed.
- Depending on the computer or OS, a manual driver installation may be needed. For the latest driver update, please visit Realtek website and download desired file from “Realtek USB GBE Ethernet Family Controller Software”.

Specifications

■Compatible signal timing

The following table shows the typical factory preset signal timing for each connection type. Some display cards may not be able to support the required resolution for proper image reproduction with the selected connection. The monitor will show the proper image by automatically adjusting the factory preset timing signal.

<Major supported timings>

EA272Q

Resolution			Vertical Frequency	Notes
H		V		
640	x	480	60/67/72/75 Hz	
720	x	400	70 Hz	
720	x	480	60 Hz	
720	x	576	50 Hz	
800	x	600	56/60/72/75 Hz	
1024	x	768	60/70/75 Hz	
1280	x	720	50/60 Hz	
1280	x	960	60/75 Hz	
1280	x	1024	60/75 Hz	
1440	x	900	60 Hz	
1600	x	1200	60 Hz	
1680	x	1050	60 Hz	
1920	x	1080	50/60 Hz	
2560	x	1440	60 Hz	Recommended

Interlace signal is not supported.

EA272U

Resolution			Vertical Frequency	Notes
H		V		
640	x	480	60/67/72/75 Hz	
720	x	400	70 Hz	
720	x	480	60 Hz	
720	x	576	50 Hz	
800	x	600	50/60/72/75 Hz	
832	x	624	75 Hz	
1024	x	768	60/70/75 Hz	
1280	x	720	50/60 Hz	
1280	x	960	60/75 Hz	
1280	x	1024	60/75 Hz	
1440	x	900	60 Hz	
1600	x	1200	60 Hz	
1680	x	1050	60 Hz	
1920	x	1080	50/60 Hz	
3840	x	2160	30 Hz	
3840	x	2160	60 Hz	Recommended

Interlace signal is not supported.

TIP: When the selected monitor resolution is not a native panel resolution, the text contents appearance in the monitor screen is expanded in a horizontal or vertical direction to show the non-native resolution to full screen. This expansion is done by interpolated resolution technologies, which are normal and widely used in flat panel devices.

■Product Specifications

Model		EA272Q	EA272U
LCD component		27 class (Diagonal 68.47 cm/27 inch) Active matrix; thin film transistor (TFT) liquid crystal display (LCD)	
Max. resolution (pixels)		2560 x 1440	3840 x 2160
Max. colors		Approx. 16.7 Million colors	Approx. 10.7 billion colors
Pixel pitch		0.233 mm (H) x 0.233 mm (V)	0.155 mm (H) x 0.155 mm (V)
Brightness (typical)*1		350 cd/m²	
Contrast ratio (typical)*1		1000:1 (7000:1, DV MODE [DYNAMIC])	1200:1 (10000:1, DV MODE [DYNAMIC])
Viewing angle		178° right/left, 178° up/down (contrast ratio ≥ 10)	
Response Time (typical)		14 ms (Gray to Gray) RESPONSE IMPROVE [OFF] 6 ms (Gray to Gray) RESPONSE IMPROVE [ON]	
Screen active area		596.7 mm (W) x 335.7 mm (H) 23.5 inch (W) x 13.2 inch (H)	
Ratio of effective pixel*4		≥ 99.9993%	≥ 99.9997%
Input terminals	HDMI	HDMI x 1 (HDCP 1.4/2.3) Video: Digital RGB, Digital YCbCr (4:4:4/4:2:2) Audio: PCM 32, 44.1, 48 KHz (16/20/24bit), 2ch	
	Display Port	DisplayPort Ver.1.4 x 1 (HDCP 1.3/2.3) Video: Digital RGB Audio: PCM 32, 44.1, 48 KHz (16/20/24bit), 2ch	
	USBType-C (upstream)	USB Type-C x 1 (DP alt. mode, Power Delivery) Video: Digital RGB, DisplayPort Ver.1.4 (HDCP 1.3/2.3) Audio: PCM 32, 44.1, 48 KHz (16/20/24bit), 2ch USB data: upstream USB3.2 Gen1 USB Power delivery: 20 V - 3.25 A max. (USB FUNCTIONALITY [ON] or [AUTO])/4.5 A max. (USB FUNCTIONALITY [90W])*2	
Output terminals	Display Port (MST/SST)	DisplayPort Ver.1.4 x 1 (HDCP 1.3/2.3) Video: Digital RGB (Input: DisplayPort/USB Type-C) Audio: PCM 32, 44.1, 48 KHz (16/20/24bit), 2ch	
	Headphone	Audio Analog output, φ3.5 mm stereo mini-jack	
USB port	Upstream	Type-B x 1 (USB3.2 Gen1) Type-C x 1 (DP alt. mode, USB3.2 Gen1, USB Power delivery: 20 V - 4.5 A max. (USB FUNCTIONALITY [90W]))*2	
	Downstream	Type-A x 2 (USB3.2 Gen1), 5 V - 0.9 A max.	Type-A x 3 (USB3.2 Gen1), 5 V - 0.9 A max. Type-C x 1 (USB3.2 Gen1), 5 V - 3.0 A max.
LAN Terminal (USB-LAN converter)		10BASE-T/100BASE-TX/1000 BASE-T	
Speaker		—	1 W + 1 W
Power Supply		AC 100 - 240 V, 1.80 - 0.80 A, 50/60 Hz	
Operating	Temperature	5 ~ 35 °C/41 ~ 95 °F	
	Humidity	20 ~ 80% (no condensation)	
	Altitude	≤ 5000 m	
Storage	Temperature	-20 ~ 60 °C/-4 ~ 140 °F	
	Humidity	10% ~ 85% (no condensation)	
Power Consumption (Normal operation/ Standby mode/Off mode)		143 W 27 W/0.5 W/0.3 W	155 W 31 W/0.5 W/0.3 W
Dimensions*3	With stand	Approx. 611.8 mm (W) x 250.0 mm (D) x 378.0 mm - 528.0 mm (H) 24.1 inch (W) x 9.8 inch (D) x 14.9 inch - 20.8 inch (H)	
	Without stand	Approx. 611.8 mm (W) x 67.2 mm (D) x 361.9 mm (H) 24.1 inch (W) x 2.6 inch (D) x 14.2 inch (H	
Stand adjustment	Height	150 mm (Landscape), 23.5 mm (Portrait) 5.9 inch (Landscape), 0.9 inch (Portrait)	
	Tilt*5/Pivot/Swivel	Up 35° Down 5°/±90°/±170°	
Weight		Approx. 5.8 kg (12.8 lbs) (monitor only) Approx. 9.2 kg (20.3 lbs) (with the stand attached)	

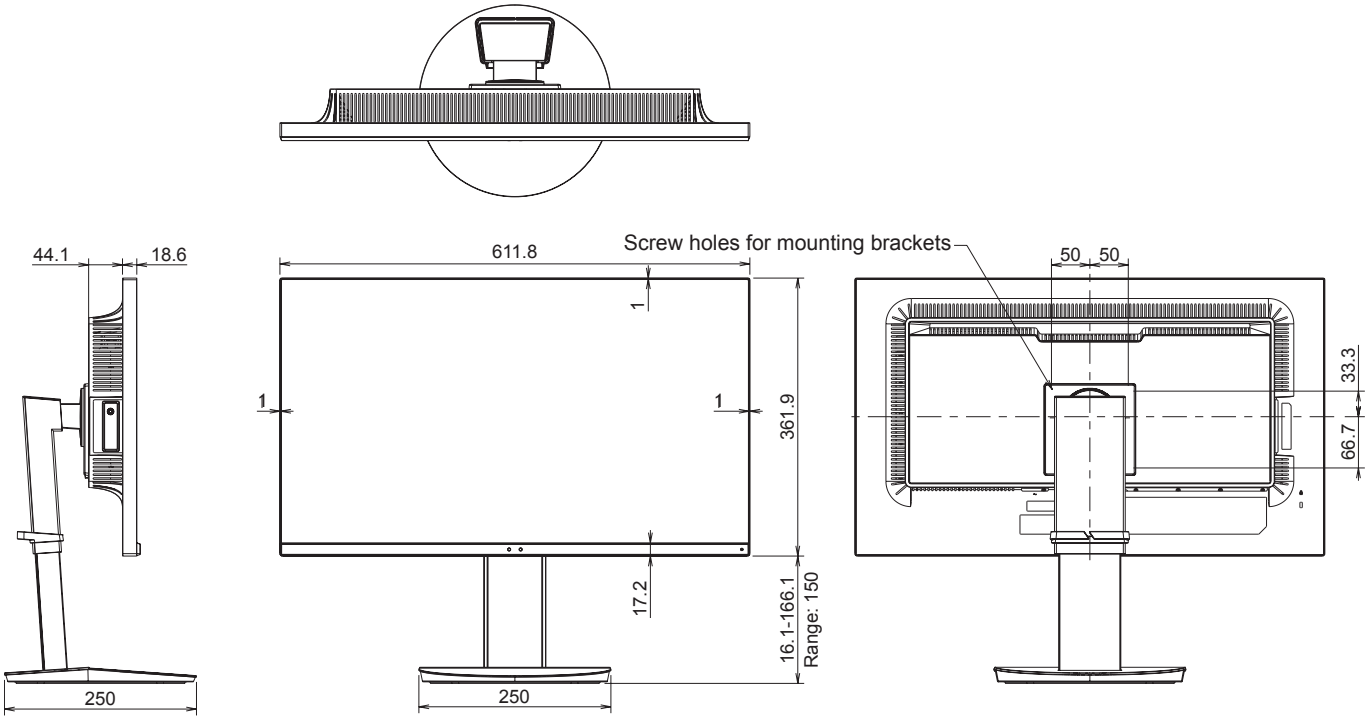
TIP: Technical specifications are subject to change without notice.

*1: Brightness and contrast ratio will depend on input mode and other picture settings. Brightness level will decrease over time. Due to the nature of the equipment, it is not possible to precisely maintain a constant level of brightness.
*2: [USB FUNCTIONALITY] - [90W] may set a limit to some functions (see page 28) due to changing internal power distribution.
*3: Excluding protrusions.
*4: Even though the LCD panel of this product is manufactured with high precision, there may be ineffective pixels such as ones which never lights up or always lighting up. “Ratio of effective pixel” means the ratio of the number of effective pixel (subtracting the number of ineffective pixels from the whole number of pixels) against the whole number of pixels on the LCD panel. Please note that presence of ineffective pixels does not mean failure of LCD panel.
*5: Including when the monitor is installed on a flexible arm.

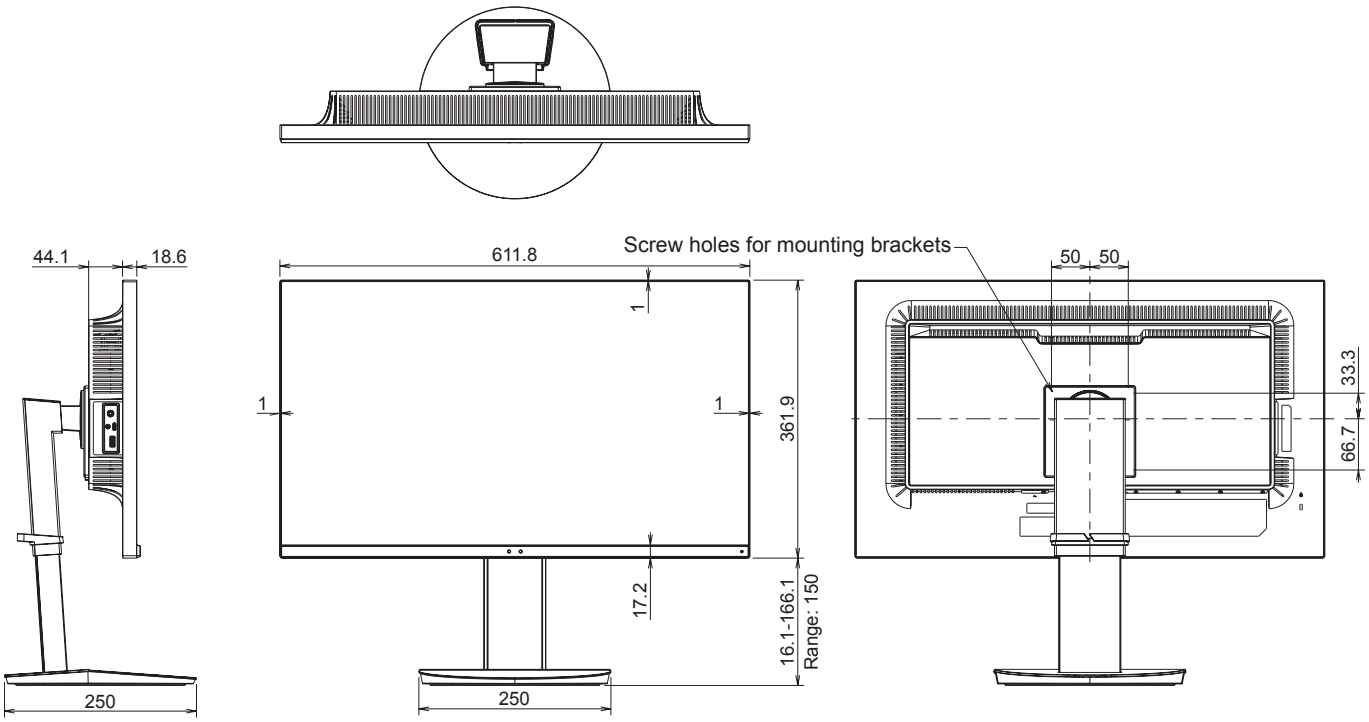
■Dimensional Drawings

Note that the values shown are approximate values.

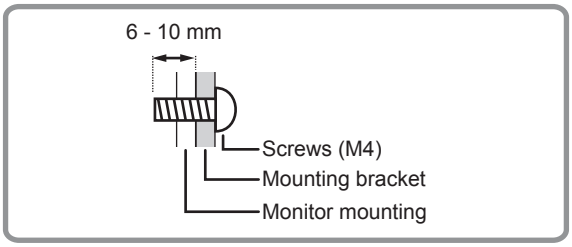
[EA272Q] (Unit: mm)



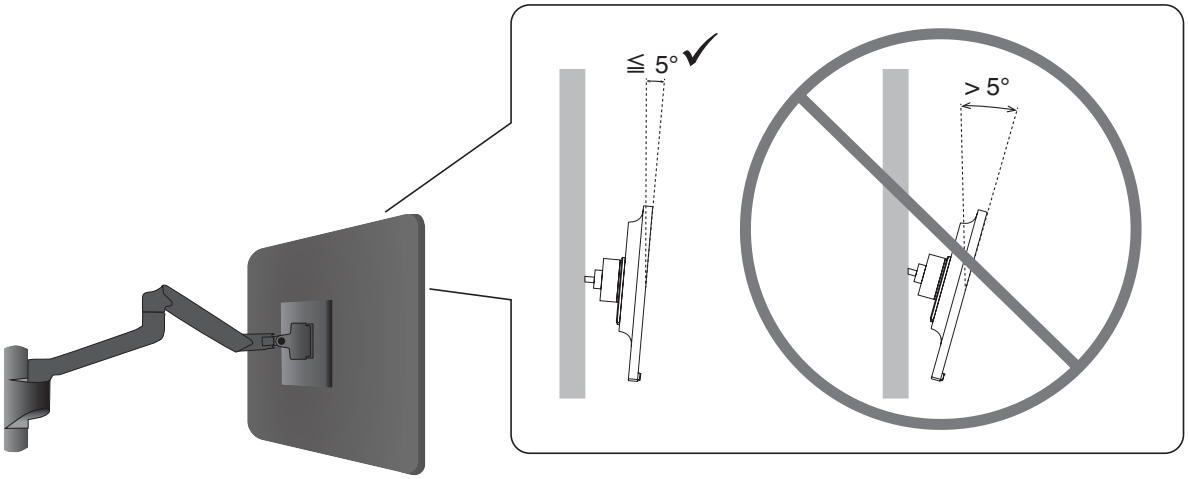
[EA272U] (Unit: mm)



- To attach a VESA-compliant mounting bracket, use M4 screws that are 6 mm to 10 mm longer than the thickness of the mounting bracket.



- Be sure to use a wall-mount bracket designed or designated for mounting the monitor.
- This monitor and bracket must be installed on a wall which can endure at least 4 times or more the weight of the monitor. Install by the most suitable method for the material and the structure.
- Do not use an impact driver.
- Do not use any screw holes other than those for mounting brackets, located on the rear of the monitor, for installation.
- When installing, check the tilt angle in the Product Specifications (page 42).



- After mounting, please carefully ensure the monitor is secure, and not able to come loose from the wall or mount.

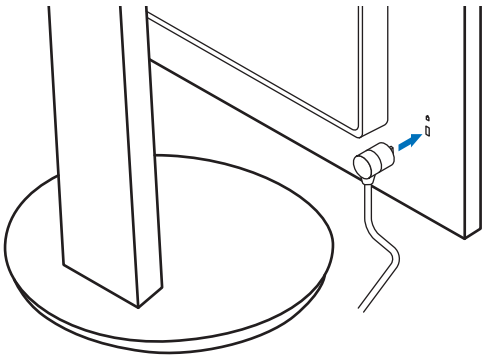
■Installing a security cable and prevent tipping

As a security measure, you can secure the monitor to a fixed object with an optional security cable.

Please follow the security cable supplier's recommended instructions to install.

A security cable (purchased separately) is designed as a deterrent, it is not guaranteed to prevent the device from being mishandled or stolen.

When using the monitor, fasten the monitor to a wall using a cord that can support the weight of the monitor in order to prevent the monitor from falling. Installing must be done by a qualified technician, and please contact your supplier for more information.



Manufacturer's Recycling and Energy Information

We are 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 Organization for Standardization) and TCO (Swedish Trades Union).

Energy Saving

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

For additional information visit:

https://www.sharpnecdisplays.us/ (in USA)

https://www.sharpnecdisplays.eu/p/hq/en/home.xhtml (in Europe)

https://www.sharp-nec-displays.com/global/index.html (Global)

Addition explanation to EcoDesign Regulation

The following setting conforms to the "Normal Configuration" as defined in the "EcoDesign Regulation (2019/2021)" and is the recommended setting.

- [USB FUNCTIONALITY] is set to [OFF]
- [DV MODE] is set to [DYNAMIC]
- [USB LAN] is set to [OFF]

If you change this setting the power consumption can be higher than using the recommended setting.

Due to the various possibilities to save energy, the different power modes named as "standby mode".
The monitor enter into "standby mode" if you use the recommended setting.

SHARP

Rev.1