

User's Manual

Desktop Monitor

AccuSync AS271F

MODEL: AS271F / AS271F-BK

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

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

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Important Information



- ⚠ WARNING:** To prevent fire or shock hazards, do not expose this unit to rain or moisture. Do not connect or disconnect this product during an electrical storm. Refrain from opening the cabinet as there are high voltage components inside. Refer servicing to qualified service personnel.
- ⚠ CAUTION:** Please use the power cord provided with this display in accordance with the power cord table. If a power cord is not supplied with this equipment, please contact us. For all other cases, please use the power cord with the plug style that matches the power socket where the monitor 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. 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 earthed properly.



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.

Plug Type	North America	European Continental	U.K.	Chinese	Japanese
Plug Shape					
Region	U.S.A./Canada	EU	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.

Copyright Information

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- NOTE:**
- (1) The contents of this user's manual may not be reprinted in part or whole without permission.
 - (2) The contents of this user's manual are subject to change without notice.
 - (3) 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.
 - (4) 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.
 - (5) Notwithstanding articles (3) and (4), we will not be responsible for any claims on loss of profit or other matters deemed to result from using this device.
 - (6) This manual is commonly provided to all regions so they may contain descriptions that are pertinent for other countries.



Registration Information

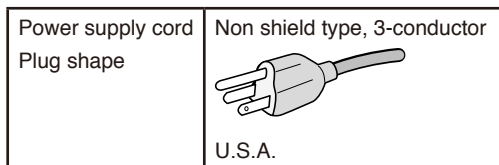
Cable Information

CAUTION: Use the provided specified cables with this product so as not to interfere with radio and television reception.
For mini D-Sub 15-pin, please use a shielded signal cable with core.
For HDMI and DisplayPort, please use a shielded signal cable.
Use of other cables and adapters may cause interference with radio and television reception.

FCC Information

WARNING: The Federal Communications Commission does not allow any modifications or changes to the unit EXCEPT those specified by Sharp NEC Display Solutions of America, Inc. in this manual. Failure to comply with this government regulation could void your right to operate this equipment.

1. The power supply cord you use must have been approved by and comply with the safety standards of U.S.A., and meet the following condition.



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

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.

SUPPLIER'S DECLARATION OF CONFORMITY

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.

U.S. Responsible Party: Sharp NEC Display Solutions of America, Inc.
Address: 3250 Lacey Rd, Ste 500
Downers Grove, IL 60515
Tel. No.: (630) 467-3000
Type of Product: Display Monitor
Equipment Classification: Class B Peripheral
Model: AS271F (AS271F / AS271F-BK)



⚠ CAUTION: Please confirm the distribution system in building installation shall provide the circuit breaker rated 120/240 V, 20 A (maximum).



Recommended Use

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

	 Indicates a warning or caution. This symbol indicates you should be careful of electric shocks.
	 Indicates a prohibited action. This symbol indicates something that must be prohibited.
	 Indicates a mandatory action. This symbol indicates that the power cord should be unplugged from the power outlet.






 WARNING		
1	 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.
2	 HAZARDOUS VOLTAGE  DO NOT DISASSEMBLE  PROHIBITED	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.
3	 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



4	 <p>PROHIBITED</p>  <p>REQUIRED</p>	<p>Handle the power cord with care.</p> <p>Damaging the cord could lead to fire or electric shock.</p> <ul style="list-style-type: none">• Do not place heavy objects on the cord.• Do not place the cord under the product.• Do not cover the cord with a rug, etc.• Do not scratch or modify the cord.• Do not bend, twist or pull the cord with excessive force.• Do not apply heat to the cord. <p>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.</p>
5	 <p>PROHIBITED</p>	<p>Do not touch the power plug if you hear thunder.</p> <p>Doing so could result in electric shock.</p>
6	 <p>REQUIRED</p>	<p>Please use the power cord provided with this product in accordance with the power cord table.</p> <p>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.</p> <p>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.</p>
7	 <p>REQUIRED</p>  <p>PROHIBITED</p>	<p>Please install the product in accordance with the following information.</p> <p>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.</p> <p>Please refer to the instructions included with the optional mounting equipment for detailed information about attaching or removing.</p> <p>Do not cover the vent on the product. Improper installation of the product may result in damage to the product, an electric shock or fire.</p> <p>Do not install the product in the locations below:</p> <ul style="list-style-type: none">• Poorly ventilated spaces.• Near a radiator, other heat sources, or in direct sunshine.• Continual vibration areas.• Humid, dusty, steamy, or oily areas.• Outdoors.• High-temperature environment where humidity changes rapidly and condensation is likely to occur. <p>Do not mount the product in any configuration or position not described in the user's manual. Please check the Specifications for the available Tilt range when installing the product.</p>

 **WARNING**











8	<p style="text-align: center;"> PROHIBITED</p> <p style="text-align: center;"> REQUIRED</p>	<p>Prevent tipping and falling for earthquakes or other shocks.</p> <p>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.</p> <ul style="list-style-type: none"> • 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. <p>Stability Hazard.</p> <p>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:</p> <ul style="list-style-type: none"> • ALWAYS use stands or installation methods recommended by the manufacturer of the product set. • ALWAYS use furnitures 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. <p>If the existing product is going to be retained and relocated, the same considerations as above should be applied.</p>
9	<p style="text-align: center;"> PROHIBITED</p>	<p>Do not place this product on a sloping or unstable cart, stand or table.</p> <p>Doing so could lead to falling or tipping and cause personal injury.</p>
10	<p style="text-align: center;"> PROHIBITED</p> <p style="text-align: center;"> HAZARDOUS VOLTAGE</p>	<p>Do not insert objects of any kind into the cabinet slots.</p> <p>It may cause electric shock, fire, or product failure. Keep objects away from children and babies.</p> <p>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.</p>



WARNING

11	 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.
12	 PROHIBITED	Do not use flammable gas sprays to remove dust when cleaning the product. Doing so could lead to a fire.

 **CAUTION**

1	 REQUIRED  DO NOT TOUCH WITH WET HANDS  UNPLUG THE POWER CORD  HAZARDOUS VOLTAGE	<p>Handling the power cord.</p> <p>Handle the power cord with care. Damaging the cord could lead to fire or electric shock.</p> <ul style="list-style-type: none"> • When connecting the power cord to the product's AC IN terminal, make sure the connector is fully and firmly inserted. • Make sure the power cord cannot be easily disconnected. • Do not connect or disconnect the power cord with wet hands. • When connecting or disconnecting the power cord, pull the power cord out by holding onto its plug. • When cleaning the product, for safety purposes, unplug the power cord from the power outlet beforehand. Regularly dust off the power cord by using a soft dry cloth. • Before moving the product, make sure the monitor 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. • When you are not planning to use the product for an extended period of time, always unplug the power cord from the power outlet. • 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 earthed properly.
2	 REQUIRED	<p>Please confirm the distribution system in building installation shall provide the circuit breaker rated 120/240 V, 20 A (maximum).</p>
3	 PROHIBITED	<p>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 monitor may fall, causing damage to the product or personal injury.</p>
4	 REQUIRED	<p>Installation, removal, and adjustment of the stand.</p> <ul style="list-style-type: none"> • 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 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.
5	 PROHIBITED	<p>Do not push the product.</p> <p>The product may fall, causing damage to the product or personal injury.</p>
6	 PROHIBITED	<p>Do not impact the LCD panel surface, it can cause serious damage to the product or personal injury.</p>
7	 REQUIRED	<p>Suitable for entertainment purposes at controlled luminous environments, to avoid disturbing reflections from the screen.</p>



CAUTION




8	 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.
9	 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.
10	 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 electric shock or damage to the product.

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 a still image 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.

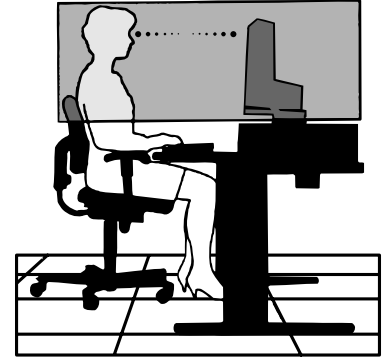
NOTE: As with all personal display devices, we recommend using a moving screen saver at regular intervals whenever the screen is idle, or turn off the monitor when not in use.

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.

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.

Product Features

- **Reduced Footprint**

Provides a good solution for environments with space constraints without sacrificing the size of the screen and its 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.

- **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.

- **No Touch Auto Adjust (Analog input only)**

Automatically adjusts the monitor to optimal settings upon initial setup.

- **ErgoDesign Features**

Enhanced human ergonomics to improve the working environment, protect the health of the user, and save money. The ergonomic features include a fully articulating monitor stand, OSD controls for quick and easy image adjustment, and lower emissions.

- **Plug and Play**

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

- **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 lessening the air conditioning demands on the workplace.

- **Multiple Frequency Technology**

Automatically adjusts the monitor to the display card's scanning frequency, thus displaying the resolution required.

- **FullScan Capability**

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

- **VESA Standard Mounting Interface**

Allows you to connect your AccuSync monitor to any VESA standard third party mounting arm or bracket.

- **Low Blue Light**

Low Blue Light function substantially reduces blue light and helps to alleviate eye strain (see [page 29](#)).

- **Flicker Free**

Special backlight system reduces flicker for less eye strain.

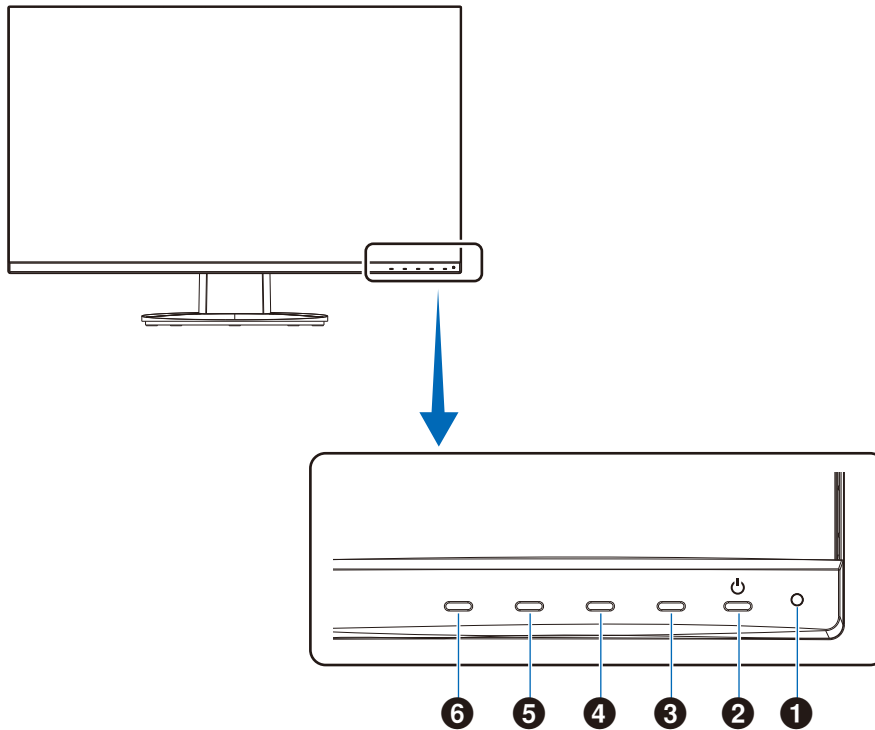
Chapter 1 Installation

This Chapter Includes:

- ⇒ “Parts Name and Functions” on page 13
- ⇒ “Connections” on page 15
- ⇒ “Setup” on page 16
- ⇒ “Flexible Arm Installation” on page 18

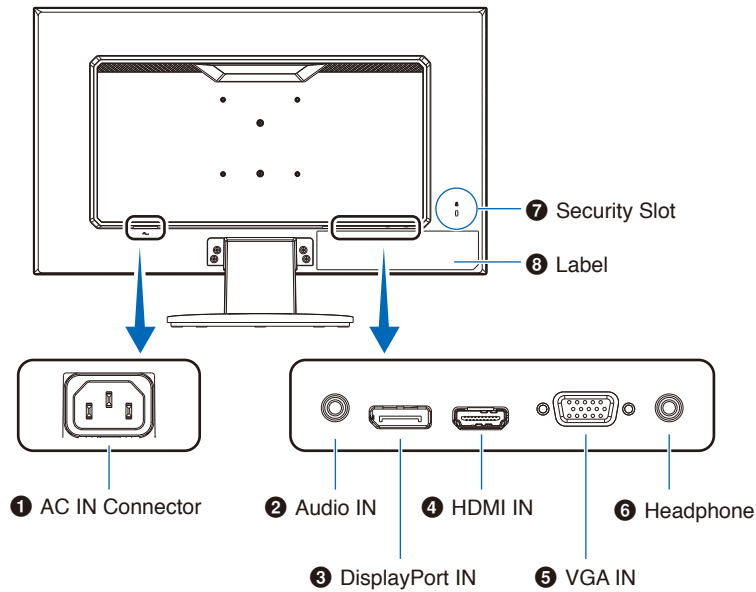
Parts Name and Functions

Control Panel



Item	Function
① LED	Indicates that the power is on.
② Power	Turns the monitor on and off.
③ EXIT button	When the OSD menu is closed, it opens the VIDEO INPUT menu (When selecting AUTO input, the monitor selects the active signal input automatically). When the OSD menu is open, it closes the OSD sub-menus and main menu.
④ UP button	When the OSD menu is closed, it opens the [BRIGHTNESS] menu. When the OSD menu is open, it navigates to the right or raises settings adjustments.
⑤ DOWN button	When the OSD menu is closed, it opens the [VOLUME] menu. When the OSD menu is open, it navigates to the left or lowers settings adjustments.
⑥ ENTER button	When the OSD menu is closed, it opens the OSD menu. When the OSD menu is open, it selects a function icon.

Terminal Panel



1 AC IN Connector

Connects with the supplied power cord.

2 Audio IN

Audio signal input from external equipment such as a computer or player.

3 DisplayPort IN

Digital DisplayPort signals input.

4 HDMI IN

Digital HDMI signals input.

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

Analog RGB signals input.

6 Headphone Jack

Connects with headphones.

7 Security Slot

Security and theft protection lock slot compatible with Kensington security cables/equipment.

For products visit Kensington's website.

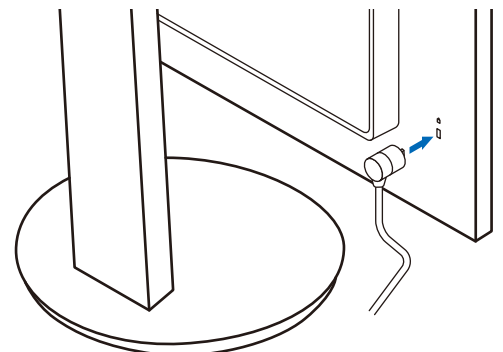
8 Label

Installing a security cable

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.

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



Connections

Video Input Connections

- VGA (mini D-Sub 15-pin) – Analog video signal connection to a computer. Video only, no audio signal.
- 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.

Connecting Video

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

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>

Resolution		Vertical Frequency	Scan Type	Notes
H	V			
640	x 480	60/72/75 Hz	p	
720	x 400	70 Hz	p	
720	x 480	60 Hz	p	
800	x 600	56/60/72/75 Hz	p	SVGA
1024	x 768	60/70/75 Hz	p	XGA
1280	x 720	50/60 Hz	p	720p
1280	x 960	60/75 Hz	p	
1280	x 1024	60/75 Hz	p	SXGA
1440	x 900	60 Hz	p	
1680	x 1050	60 Hz	p	
1920	x 1080	50/60 Hz	p	1080p, Recommended (60 Hz)

p: Progressive.

NOTE: 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.

Connecting to a Computer with HDMI

- To output the sound, select the [SOUND] - [SOUND INPUT] - [HDMI] in the OSD menu.
- Please use an 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

- To output the sound, select the [SOUND] - [SOUND INPUT] - [DISPLAYPORT] in the OSD menu.
- Please use a DisplayPort cable with the DisplayPort compliance logo.
- 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.

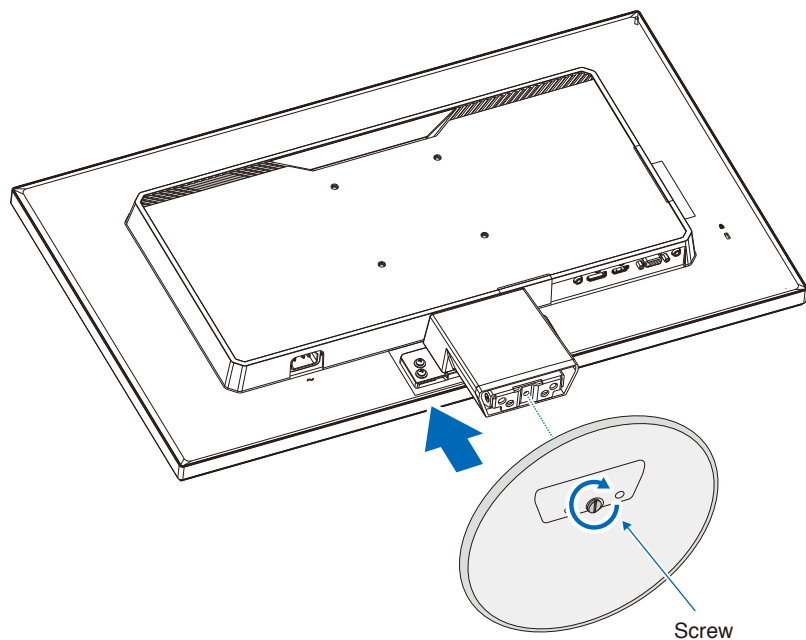
Setup

For box contents, please refer to the setup manual provided in the box.

The accessories included depends on the location where the monitor was shipped.

To attach the base stand to the LCD monitor stand:

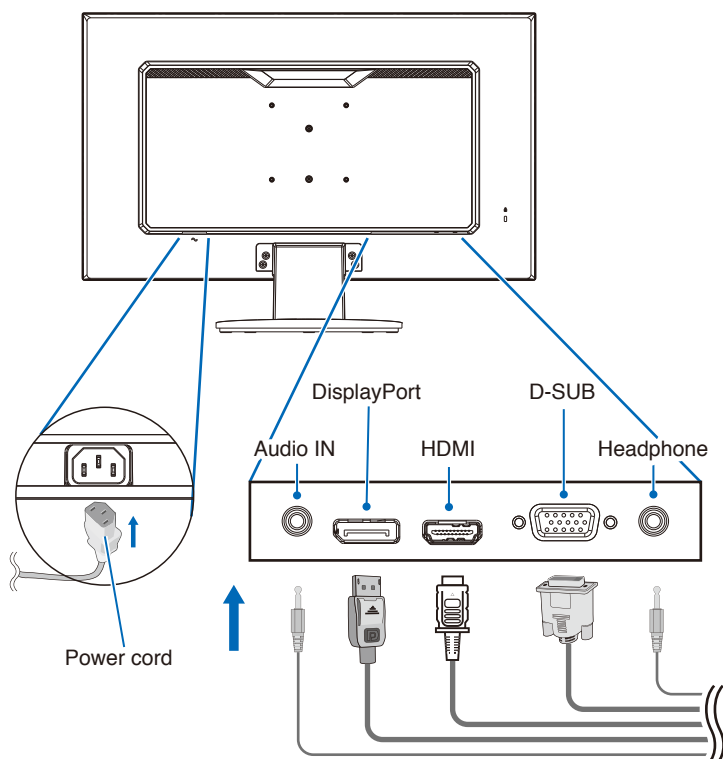
1. Place the monitor face down on a non-abrasive surface.
2. Attach the base stand to the Stand Neck. Tighten the screw at the base stand's bottom.



To connect the monitor to your system, follow these instructions:

NOTE: Make sure to read “Recommended Use” on page 3 before installation.

1. Turn off the power to your computer.
2. Place the monitor face down on a non-abrasive surface.
3. Connect devices to the monitor.



CAUTION: Use the provided specified cables with this product so as not to interfere with radio and television reception. For mini D-Sub 15-pin, please use a shielded signal cable with core. For HDMI and DisplayPort, please use a shielded signal cable. Use of other cables and adapters may cause interference with radio and television reception.

⚠CAUTION: • Do not connect headphones to the monitor while you are wearing them. Depending on the volume level, it may damage your ears and cause loss of hearing.

NOTE: • Adjustment of the volume control as well as the equalizer to other settings than the center position may increase the ear-/headphones output voltage and therefore the sound pressure level.
• Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor lowers the sound.
• Incorrect cable connections may result in irregular operation, damage display quality/components of the LCD module and/or shorten the module's life.

4. Connect the power cord to a power outlet.

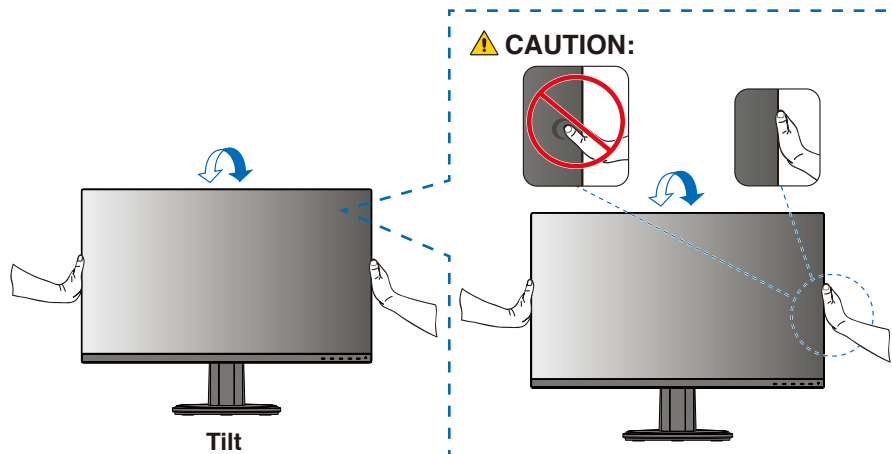
NOTE: • Please refer to the Caution section of this manual for proper selection of the AC power cord (see page 1).
• Please make sure that enough power is supplied to the monitor. Please refer to “Power Supply” in the “Chapter 4 Specifications” on page 26.

5. Turn on the monitor by pressing the  button and then turn on the computer.

NOTE: If you have any problems please refer to the Troubleshooting section of this User's Manual (see page 23).

Adjustable Stand Capability

Hold the monitor on each side and adjust tilt as desired.



Flexible Arm Installation

This monitor is designed for use with a flexible arm. Contact us for more information.

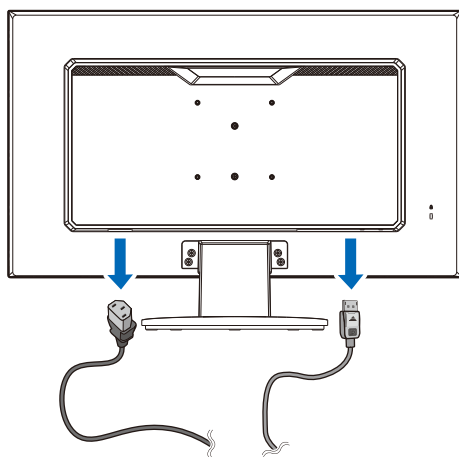
Follow the instructions provided by the manufacturer of the display mount. Remove the monitor stand before mounting.

CAUTION: To meet the safety requirements, the monitor must be mounted to an arm that supports the weight of the monitor. See the Specifications - "AS271F" on page 27 for details.

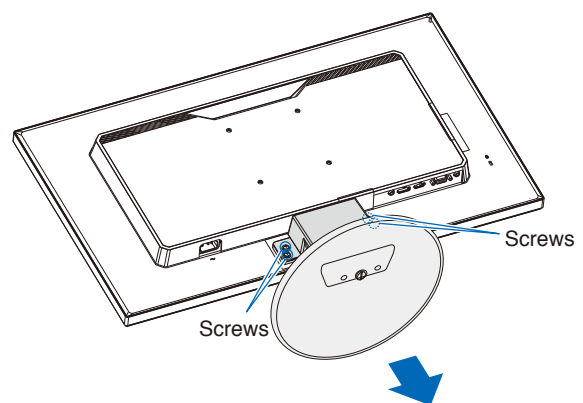
Remove the Monitor Stand for Mounting

NOTE: Handle with care when removing the monitor stand.

1



2



Mount the Flexible Arm

Using four screws that meet the specifications listed below, attach the arm to the monitor.

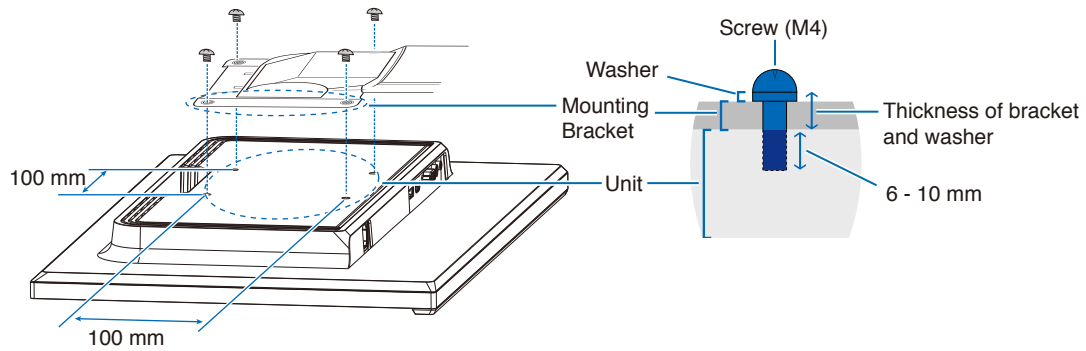


Figure F.1

- ⚠ CAUTION:**
- The monitor should only be used with an approved arm (e.g. TUEV GS mark).
 - Tighten all screws (recommended fasten torque: 98 - 137 N•cm).
 - Attaching the flexible arm should be done by two or more people if the monitor cannot be placed face down on a flat surface for installation.

Chapter 2 Basic Operation

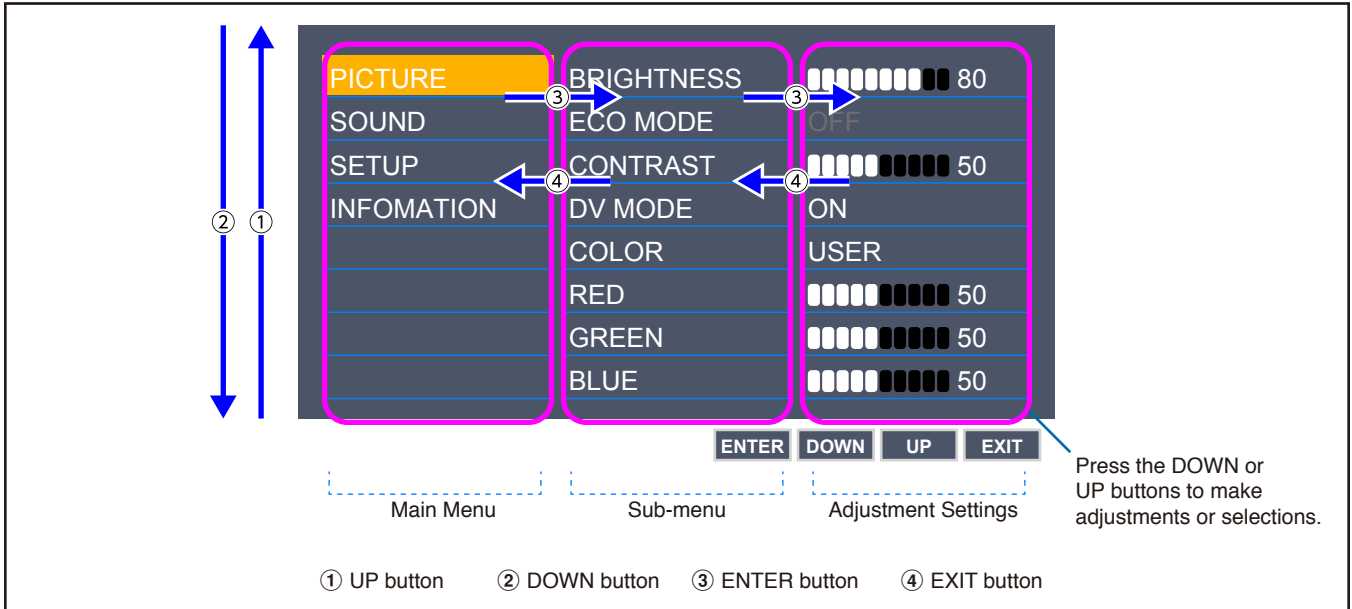
This Chapter Includes:

- ⇒ “Using the OSD (On-Screen Display) Controls” on page 21
- ⇒ “Changing the Input” on page 22
- ⇒ “Power management function LED indicator patterns” on page 22

Using the OSD (On-Screen Display) Controls

OSD (On-Screen Display) control button on the front of the monitor function as follows:

- To access the OSD menu, press the **ENTER** button.



Below is a brief summary of where controls are under each menu item. Tables listing all options available in the OSD menu are located in [“Appendix A OSD Controls List” on page 28](#).

PICTURE: Select one of the default picture modes, or manually adjust the color settings.

SOUND: Select audio source and adjust volume.

SETUP: Set the OSD language, time, position, and response.

INFORMATION: Shows the monitor’s information and system information.

Changing the Input

Changing the Input

To change the signal input, press the **EXIT** button.

NOTE: When selecting AUTO input, the monitor selects the active signal input automatically.

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.

Power management function LED indicator patterns

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.

Mode	LED indicator	Power consumption	Condition
Maximum operation	Blue	Approx. 24 W	All functions work.
Normal operation	Blue	Approx. 14 W	Default setting.
Energy saving mode	Amber	0.30 W	The monitor has passed a certain amount of time with no video signal input.
Off mode	Off	0.28 W	Turn off the monitor by the \odot button.

- NOTE:**
- Power consumption depends on the setting of OSD or which devices are connected to the monitor.
 - This function works with computers that support VESA approved DPM (Display Power Management).

Chapter 3 Troubleshooting

This Chapter Includes:

- ⇒ “Screen Image and Video Signal Issues” on page 24
- ⇒ “Hardware Issues” on page 25
- ⇒ “Image Persistence” on page 25

Screen Image and Video Signal Issues

No picture

- Make sure the signal cable is fully connected to the monitor and the computer.
- Make sure there is no DisplayPort converter adapter connected. The monitor does not support DisplayPort converter adapter.
- Make sure the computer's display card is completely seated in its slot.
- Make sure both the computer and monitor are powered on.
- 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.
- 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.

The image is unstable, unfocused or swimming is apparent

- Make sure the signal cable is fully connected to the monitor and the computer.
- Use the OSD Image Adjust controls to focus and adjust the display by increasing or decreasing the [PHASE] adjustment. When the display mode is changed, the OSD Image Adjust settings may need to be readjusted.
- Check the monitor and your display card with respect to compatibility and recommended signal timings.
- Disconnect the DisplayPort cable and press the [ENTER] button while "NO SIGNAL" is displayed. When the [DP LONG CABLE] is displayed, adjust the OSD value using [DOWN] button and [UP] button and press [ENTER] button and [EXIT] button. Connect the DisplayPort cable and make sure the picture image.

The image is not properly reproduced

- Use the OSD Image Adjust controls ([H POSITION], [V POSITION], [CLOCK], and [PHASE]). (Analog input only).
- Use the [AUTO ADJUST] functions. (Analog input only).

Picture is not bright

- Make sure [ECO MODE] is [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.
- If the brightness fluctuates, make sure [DV MODE] is set to [OFF].


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.

Brightness variations over time

- Change [DV MODE] to [OFF] and adjust brightness.
NOTE: When [DV MODE] is set to [ON], the monitor automatically adjusts brightness based on the video signal.

No Video

- If no video is present on the screen, turn the  button off and on again.
- Make sure the computer is not in a power-saving mode by touching the connected keyboard or the connected mouse.

Hardware Issues

⏻ button does not respond

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

Message “OUT OF RANGE” is displayed (screen is either blank or shows rough images only)

- Image is displayed roughly (pixels are missing) and an OSD warning “OUT OF RANGE” is displayed: Either signal clock or resolution is too high. Choose one of the supported modes.
- An OSD warning “OUT OF RANGE” is displayed on a blank screen: Signal frequency is out of range. Choose one of the supported modes.

LED on monitor is not lit

- Make sure the power cord is properly connected to the monitor and the wall, and make sure the monitor’s power switch is on.
- Set [POWER INDICATOR] is [ON].

No Sound

- Check to see if the speaker cable is properly connected.
- 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 or HDMI.
- Check selected [SOUND INPUT] when DisplayPort or HDMI is in use.

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, the image persistence on LCD monitors is not permanent, but single still image 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, we recommend using a moving screen saver at regular intervals whenever the screen is idle, or turning off the monitor when not in use.

Chapter 4 Specifications

This Chapter Includes:

⇒ “AS271F” on page 27

AS271F

Monitor Specifications		AccuSync AS271F	Notes
LCD Module	Diagonal: Viewable Image Size: Native Resolution:	68.58 cm / 27 inches 68.58 cm / 27 inches 1920 x 1080 60 Hz	Active matrix; thin film transistor (TFT) liquid crystal display (LCD); 0.311 mm dot pitch; 250 cd/m ² white luminance; 1000:1 contrast ratio (typical), (5000:1 Contrast ratio, DV MODE ON).
Input Signal			
VGA:	Mini D-Sub 15-pin:	Analog RGB Sync	0.7 Vp-p / 75 ohm Separate sync. TTL level Positive/Negative
DisplayPort:	DisplayPort Connector:	Digital RGB	Up to 1920 x 1080 60 Hz, DisplayPort V1.1a (HDCP 1.3)
HDMI:	HDMI Connector:	Digital RGB, Digital YUV	Up to 1920 x 1080 60 Hz, HDMI (HDCP 1.4)
Display Colors		16777216	Depends on display card used.
Synchronization Range	Horizontal: Vertical:	31.5 kHz to 83.0 kHz 50 Hz to 75 Hz	Automatically Automatically
Viewing Angle	Left/Right: Up/Down:	±89° (CR > 10) ±89° (CR > 10)	
Response Time		6 ms (Gray to Gray Typ.)	
Active Display Area	Horiz.: Vert.:	597.9 mm / 23.5 inches 336.3 mm / 13.2 inches	
AUDIO			
AUDIO Input:	STEREO Mini Jack: DisplayPort Connector: HDMI Connector:	Analog Audio Digital Audio Digital Audio	Stereo L/R 500mV rms 20 Kohm PCM 2ch 32, 44.1, 48 kHz (16/20/24bit) PCM 2ch 32, 44.1, 48 kHz (16/20/24bit)
Headphone Output:	STEREO Mini Jack:		Headphone Impedance 32 Ohm
Speakers	Practical Audio Output:	1.0 W+ 1.0 W	
Power Supply		AC 100-240 V, 50/60 Hz	
Current Rating		0.55 - 0.40 A	
Dimensions		610.7 mm (W) x 430.0 (H) x 250.0 mm (D) 24.0 inches (W) x 16.9 inches (H) x 9.8 inches (D)	
Stand adjustable range	Tilt:	UP 20° Down 5°	
Weight		6.4 kg (14.1 lbs) (with monitor stand) / 5.0 kg (11.0 lbs) (without monitor stand)	
Environmental Considerations	Operating Temperature: Humidity: Altitude: Storage Temperature: Humidity: Altitude:	5°C to 35°C / 41°F to 95°F 20% to 80% 0 to 16,404 Feet / 0 to 5,000 m -10°C to 60°C / 14°F to 140°F 10% to 85% 0 to 40,000 Feet / 0 to 12,192 m	

NOTE: Technical specifications are subject to change without notice.

Appendix A OSD Controls List

This Chapter Includes

- ⇒ “Picture” on page 29
- ⇒ “Sound” on page 29
- ⇒ “Setup” on page 30
- ⇒ “Information” on page 30

Default values can be provided on request.

Picture

Picture Menu	
BRIGHTNESS	Adjusts the overall image and background screen brightness.
ECO MODE	Decreases the amount of power consumption by reducing the brightness level.
OFF	Sets the brightness variable range from 0% to 100%.
1	Sets the brightness variable range from 0% to 80%.
2	Sets the brightness variable range from 0% to 40%.
CONTRAST	Adjusts the image brightness in relation to the background. NOTE: This function is disabled when [COLOR] is set to [L/B].
DV MODE (Dynamic Visual Mode)	Adjusts the brightness by detecting the screen's black areas and optimizes it. NOTE: [OFF] is used for TCO Certificate compliance. This function is disabled when [COLOR] is set to [L/B].
COLOR	Select the desired color setting from six color presets (9300 / 7500 / sRGB / USER / NATIVE / L/B*).
RED	Increases or decreases [RED]. The change will appear on screen.
GREEN	Increases or decreases [GREEN]. The change will appear on screen.
BLUE	Increases or decreases [BLUE]. The change will appear on screen.
SHARPNESS	Adjusts the crispness of the image.
H POSITION (Analog input only)	Controls the horizontal position of the image within the display area of the LCD.
V POSITION (Analog input only)	Controls the vertical position of the image within the display area of the LCD.
CLOCK (Analog input only)	Press UP button to expand the width of the image on the right of the screen. Press DOWN button to narrow the width of the image on the left of the screen.
PHASE (Analog input only)	Adjusts the visual "noise" in the image.
AUTO CONTRAST (Analog input only)	Adjusts the image displayed for non-standard video inputs.
AUTO ADJUST (Analog input only)	[H POSITION], [V POSITION], [CLOCK] and [PHASE] are adjusted automatically when new timing is detected.
PICTURE RESET	Resets all PICTURE settings back to default settings.

*: L/B is an abbreviation of Low Blue Light.

Sound

Sound Menu	
SOUND INPUT	Selects the sound input source.
MUTE	Mutes the speaker output.
VOLUME	Controls the volume of the speakers or headphones.

Setup

Setup Menu	
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	May reduce blurring that occurs in some moving images.
LANGUAGE	Selects the language used by the OSD. After selecting language, press the ENTER button.
POWER INDICATOR	Turns off the LED light on the monitor bezel when [POWER INDICATOR] is set to [OFF].
QUICK START	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 and reconnected. If you select [ON], it prevents the compliance marks from being shown when powering on the monitor.
OSD TURN OFF	The OSD menu will stay open as long as it is in use. You can select how long the monitor waits after the last touch to turn off the OSD menu. The preset choices are 5 - 100 seconds by 5-second increments.
OSD LOCK OUT	Completely locks out access to all of the OSD control functions except for [BRIGHTNESS], [CONTRAST], [VOLUME], and input change. To activate the [OSD LOCK OUT] function, open the OSD menu, select [OSD LOCK OUT], then hold down the ENTER button over 5 seconds and press the EXIT button simultaneously. To deactivate, hold down the EXIT button over 5 seconds and press the ENTER button simultaneously.
FACTORY RESET	Selecting [FACTORY PRESET] allows you to reset all OSD control settings back to the default settings except [LANGUAGE].

Information

Information Menu	
INFORMATION	Information about the current display resolution and technical data, including the preset timing being used and the vertical frequencies, and indicates the model and serial numbers of your monitor.

Appendix B Manufacturer's Recycling and Energy Information

This Chapter Includes:

- ⇒ "Disposing of your old NEC product" on page 32
- ⇒ "Energy Saving" on page 32

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 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, we offer 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:

<https://www.sharpnecdisplays.eu/p/greenvision/en/greenvision.xhtml> (in Europe),

<https://www.sharp-nec-displays.com> (in Japan) or

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

Energy Saving

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

For additional information visit:

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

<https://www.sharpnecdisplays.eu> (in Europe)

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