Setup Manual

DuraVision®
MDS1901
Color LCD Monitor

Important

Carefully read this Setup Manual and User's Manual before use to use the monitor correctly. Please retain this manual for future reference.

- Refer to the "User's Manual" for information on the setting / adjustment of the monitor.
- You can check the latest product information, including the Setup Manual, from our web site.
  www.eizoglobal.com

SYMBOLS

This manual and this product use the symbols below. They denote critical information. Please read them carefully.

WARNING	Failure to abide by the information in a WARNING may result in serious injury and can be life threatening.
CAUTION	Failure to abide by the information in a CAUTION may result in moderate injury and/or property or product damage.
	Indicates a warning or caution.
	Indicates a prohibited action.

This product has been adjusted specifically for use in the region to which it was originally shipped.
If operated outside this region, the product may not perform as stated in the specifications.

No part of this manual may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, or otherwise, without the prior written permission of EIZO Corporation.
EIZO Corporation is under no obligation to hold any submitted material or information confidential unless prior arrangements are made pursuant to EIZO Corporation's receipt of said information. Although every effort has been made to ensure that this manual provides up-to-date information, please note that EIZO product specifications are subject to change without notice.

PRECAUTIONS

Important

This product has been adjusted specifically for use in the region to which it was originally shipped. If operated outside this region, the product may not perform as stated in the specifications.

To personal safety and proper maintenance, please read carefully the "PRECAUTIONS" section and the caution statements on the monitor.

Symbols on the unit

Symbol	Meaning
	Power button: Press to turn the monitor’s power on or off.
	Direct current
	Alternating current
	Dangerous voltage
	CAUTION
	WEEE marking: Product must be disposed of separately; materials may be recycled.
	CE marking: EU conformity mark in accordance with the provisions of Council Directive and/or Regulation (EU).
	Mark signifying compliance with UK regulations

WARNING

⚠ WARNING

This product is intended to be housed in an enclosure. Do not use it as a standalone monitor.

Using the monitor as such may result in electrical shock or equipment damage.



⚠ WARNING

If the unit begins to emit smoke, smells like something is burning, or makes strange noises, disconnect all power connections immediately and contact your EIZO representative for advice.

Attempting to use a malfunctioning unit may result in fire, electrical shock, or equipment damage.

⚠ WARNING

Do not disassemble or modify the unit.

Opening the cabinet may result in electrical shock or burn by high-voltage or high-temperature parts. Modifying the unit may result in fire or electrical shock.



⚠ WARNING

Refer all servicing to qualified service personnel.

Do not attempt to service this product yourself as opening or removing covers may result in fire, electrical shock, or equipment damage.

⚠ WARNING

Keep foreign objects or liquids away from the unit.

Metal parts, flammable materials, or liquids accidentally falling into the cabinet may result in fire, electrical shock, or equipment damage.

If an object or liquid falls/spills into the cabinet, unplug the unit immediately. Have the unit checked by a qualified service engineer before using it again.



⚠ WARNING

Use the unit in an appropriate location

Otherwise, fire, electrical shock, or equipment damage may result.

- Do not place outdoors.
- Do not install in locations subject to strong vibrations or impacts.
- Do not place in dusty or humid environments.
- Do not place in locations where water may be splashed on the screen (bathrooms, kitchens, etc.)
- Do not place in locations where steam comes in direct contact with the screen.
- Do not place near heat generating devices or humidifiers.
- Do not place in locations where the product is subject to direct sunlight.
- Do not place in environments with inflammable gas.
- Do not place in environments with corrosive gases (such as sulfur dioxide, hydrogen sulfide, nitrogen dioxide, chlorine, ammonia, and ozone).
- Do not place in environments with dust, components that accelerate corrosion in the atmosphere (such as sodium chloride and sulfur), conductive metals, and so on.



⚠ WARNING

Install the product so that the user cannot touch the power input section on the back

Touching the power input section may result in electric shock.

Proper insulation protection must be applied to the power input section in accordance with the applicable standards for the final product after installation.

⚠ WARNING

Use within the rated voltage range

Otherwise, fire, electrical shock, or equipment damage may result. Please ensure that the following voltage are applied at the input terminals of the monitor:

Power:

AC: AC100 - 240 V, 50 / 60 Hz

DC: DC+24 V

⚠ WARNING

If using the AC power connector, please ensure that the power cord meets the following requirements:

A power cord is not included with the product. Please prepare a power cord that meets your requirements.

The power cord must comply with the mandatory standards of the country or region where you will be using this product.

- Japan: Rated AC125 V 7 A, VCTF cord type, 0.75 mm^2
- Europe: Rated AC250 V 10 A, H05VV-F, GTCE-3 cord type, 0.75 mm^2
- USA: Rated AC125 V 10 A, SVT, 3/18 AWG cord type (0.75 mm^2)
- China: Rated AC250 V 10 A, 60227 IEC53 cord type 3 x 1 square meter

⚠ WARNING

If you use the AC power connector, always ensure the grounding of the power cord

Otherwise, electrical shock may result.



⚠ WARNING

If you use the DC power terminal block, make sure it is securely connected

If the terminal block comes loose, fire or electric shock may result.

⚠ WARNING

Only supply power after completing all power connections

Connecting while power is supplied may result in electric shock.

⚠ WARNING

If you use the DC power terminal block, do not touch it while power is being supplied

Touching the terminal block may result in electric shock.



⚠ WARNING

To disconnect the power cord, grasp the plug firmly and pull.

Tugging on the cord may damage and result in fire or electrical shock.



⚠ WARNING

When removing the DC power terminal block, hold the terminal block part

Tugging on the cable may damage it and result in fire or electrical shock.

⚠ WARNING

Handle the power cord with care.

Do not place heavy objects on the power cord, or pull or tie the power cord. Using a damaged power cord may result in fire or electrical shock.

⚠ WARNING

Never touch the plug and power cord if it begins to thunder.

Touching them may result in electrical shock.

⚠ WARNING

Do not touch a damaged LCD panel directly with bare hands.

If any part of your skin comes in direct contact with the panel, wash thoroughly.

If liquid crystal enters your eyes or mouth, immediately flush with large amounts of water and seek medical attention. Otherwise, you may have a toxic reaction.

⚠ WARNING

Periodically check the tightness of screws

If not sufficiently tight, the monitor may detach from the arm, which may result in injury or equipment damage.

CAUTION

⚠ CAUTION

Disconnect cables and remove accessories when moving the unit.

Otherwise, the cables or accessories may become detached when moving, resulting in injury.

⚠ CAUTION

Do not touch the power plug with wet hands.

Touching them may result in electrical shock.





⚠ CAUTION

Do not place any objects around the power plug.

This is to facilitate disconnecting the power plug in case of a problem to avoid fire or electrical shock.



⚠ CAUTION

Periodically clean the area around the power plug

Dust, water, or oil adhered to this area may result in fire.

⚠ CAUTION

When cleaning, shut off the power input

Cleaning the unit while the power is input may result in electrical shock.

⚠ CAUTION

Dispose of this product in accordance with local regulations

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1 Introduction

Thank you very much for choosing an EIZO color LCD monitor.

1.1 Package Contents

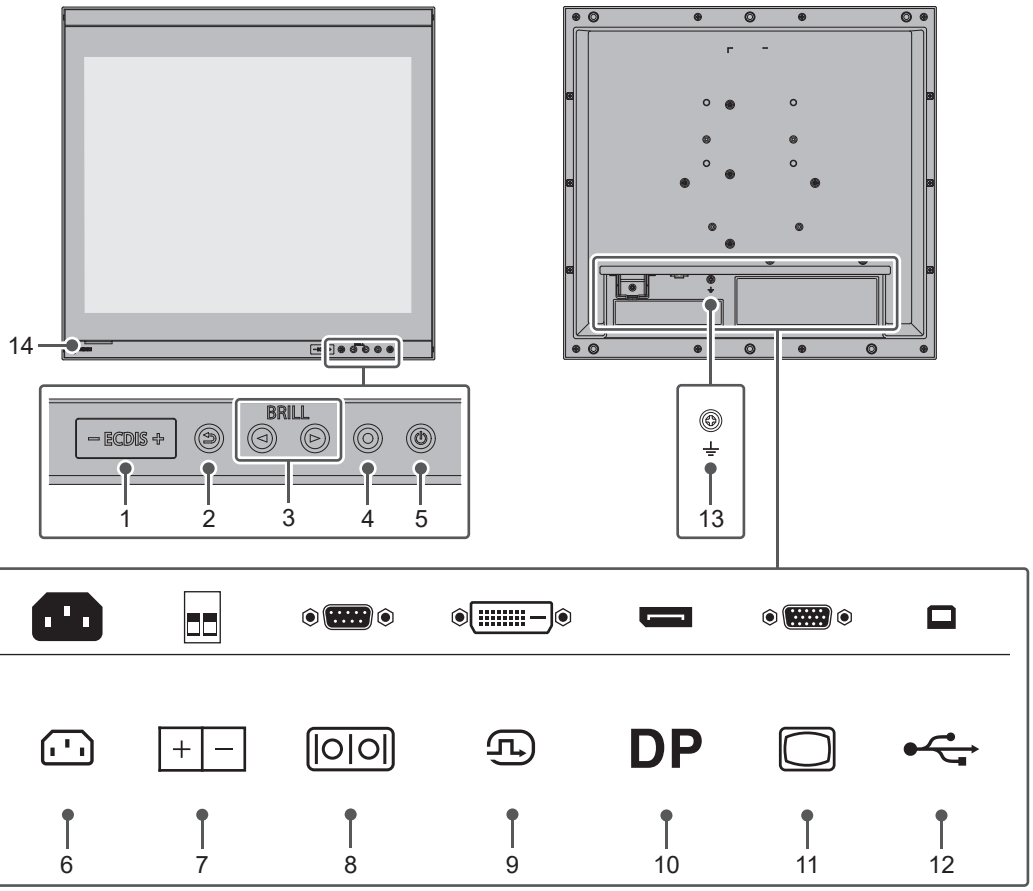
Check that all of the following items are included in the package. If any of these are missing or damaged, contact your dealer or local EIZO representative listed separately.

Note

- The User's Manual is not included with the product. Please download it from our web site using the steps below.
  1. Access www.eizoglobal.com.
  2. From the menu, select "Support" > "Manuals."
  3. In the "Enter model name" text box, enter "MDS1901," and then press the "Search" button.
  4. Click the icon for the User's Manual.
- It is recommended that the box and packing materials be stored so that they can be used to move or transport this product.

- Monitor
- Setup Manual (this document)
- Cleaning cloth

1.2 Controls and Functions



1. ECDIS Indicator	If the monitor brilliance is set according to the ECDIS adjustment value, the word "ECDIS" will light up green.
2. ⮌ button[*1]	Closes the Setting menu. On models equipped with a touch panel, performs functions related to the touch panel.
3. ◀ ▶ button[*1]	Selects items displayed in the Setting menu, adjusts or sets the functions, and displays the brightness adjustment screen.
4. ● button[*1]	Displays the Setting menu, confirms the adjustment items of each menu, and saves adjustment results.
5. ⏻ button[*1]	Turns the power on or off. When turning off the power, press and hold ⏻ for more than 5 seconds. After the remaining time until the power turns off is displayed, the power turns off. **Note** When the power is on, pressing ⏻ (short press) will display "Information" in the Setting menu, where you can check the monitor and input signal information.
6. AC power connector	Connects the power cord. An insulation cover is attached when the product is shipped.
7. DC power connector	Mounts the DC power terminal block.
8. RS-232C port[*2]	D-Sub 9-pin (female) connector Connects when controlling the monitor via RS-232C communication.
9. DVI (DVI-D) connector	Connects to a PC with DVI output.

10. DisplayPort™ connector	Connects to a PC with a DisplayPort output.
11. D-Sub mini 15-pin connector	Connects to a PC with D-Sub output.
12. USB-B connector (upstream) *2	Connects when controlling the monitor via USB. Connects a USB cable when using the monitor as a touch panel.
13. Functional grounding terminal (⏚)	Terminal for grounding (functional grounding) to provide stable operation of the device. The screw hole size is M4 (nominal diameter of 4 mm) with a depth of 6 mm.
14. Buzzer	The buzzer can sound warning tones when controlled by the system. **Note** For more information on system control, please contact your local EIZO representative.

*1 When the power is turned on, the buttons will light up in green.

*2 These cannot be used simultaneously.

2 Installation / Connection

2.1 Installation

In addition to being integrated into an enclosure, this product can also be mounted using the optional tilt stand (MDS-T192, sold separately). For more information about the installation procedure, refer to the MDS-T192 User's Manual.

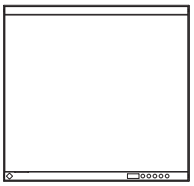
Attention
• Marine certification does not cover the use of VESA-compliant arms or mounting hardware.

2.1.1 Installation conditions

Ensure there is sufficient space around the monitor, and install so that air can circulate.

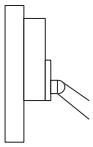
The installable orientations and movement installation angle (tilt angle) are as follows:

- Orientation

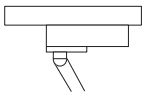


No rotation

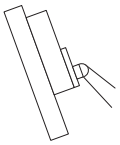
- Installation angle (tilt angle)



Standard



Up: 90˚



Down: 30˚

2.1.2 Monitor installation conditions

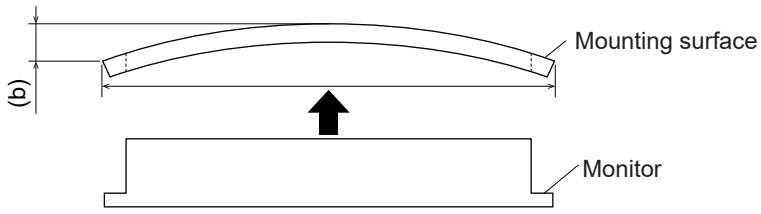
The conditions for the monitor installation of the enclosure for incorporating this product are as follows:

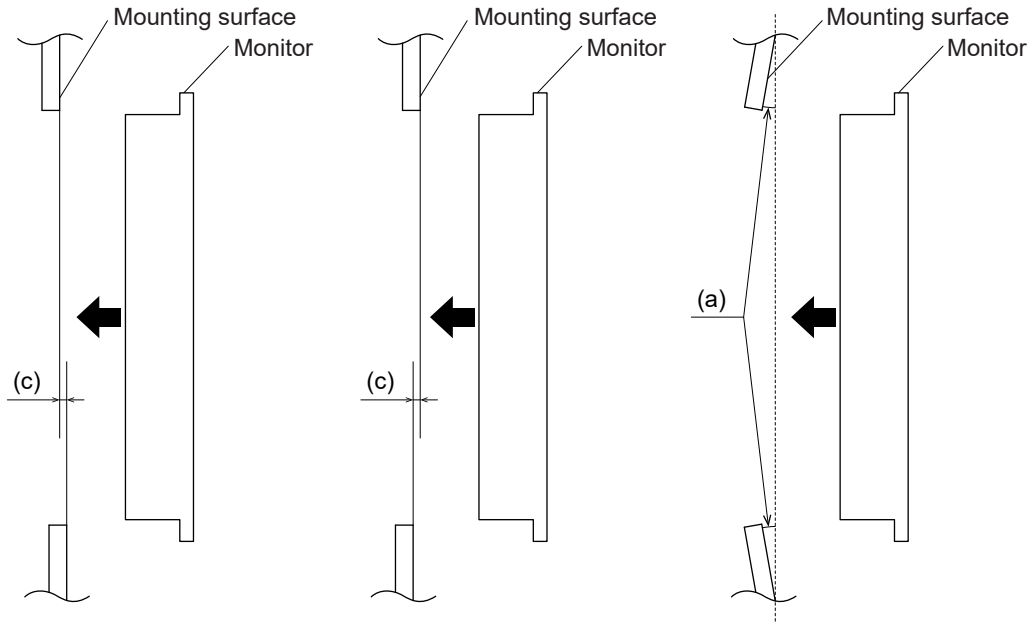
(a) Mounting surface tilt (short side) toward the back: 0˚ to 1˚

(b) Deflection/curvature of mounting surface (long side): 0 mm to 1.0 mm

(c) Deviation in the normal direction of the mounting surface (both ends of the short side): 0 mm to 1.0 mm

(d) Allowable clearance between mounting surface and installation surface: 0 mm to 1.0 mm



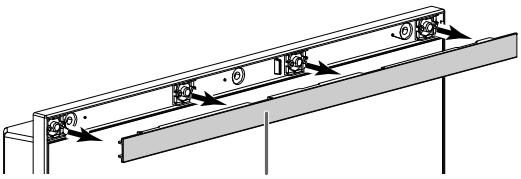


2.1.3 How to assemble

Attention

- Mounting screws are not included with this product. Prepare M5 screws (6 pcs.) separately for the assembly enclosure.
- When assembling the monitor into the enclosure, please ensure that at least two people are involved and exercise caution to prevent fingers from getting caught.
- Place the monitor away from the compass. Otherwise, it may cause errors in the compass. Maintain the following safe distances between the monitor and the compass:
  - Standard compass: 1.50 m
  - Steering compass: 0.95 m

1. Remove the screw cover that is fitted into the monitor.

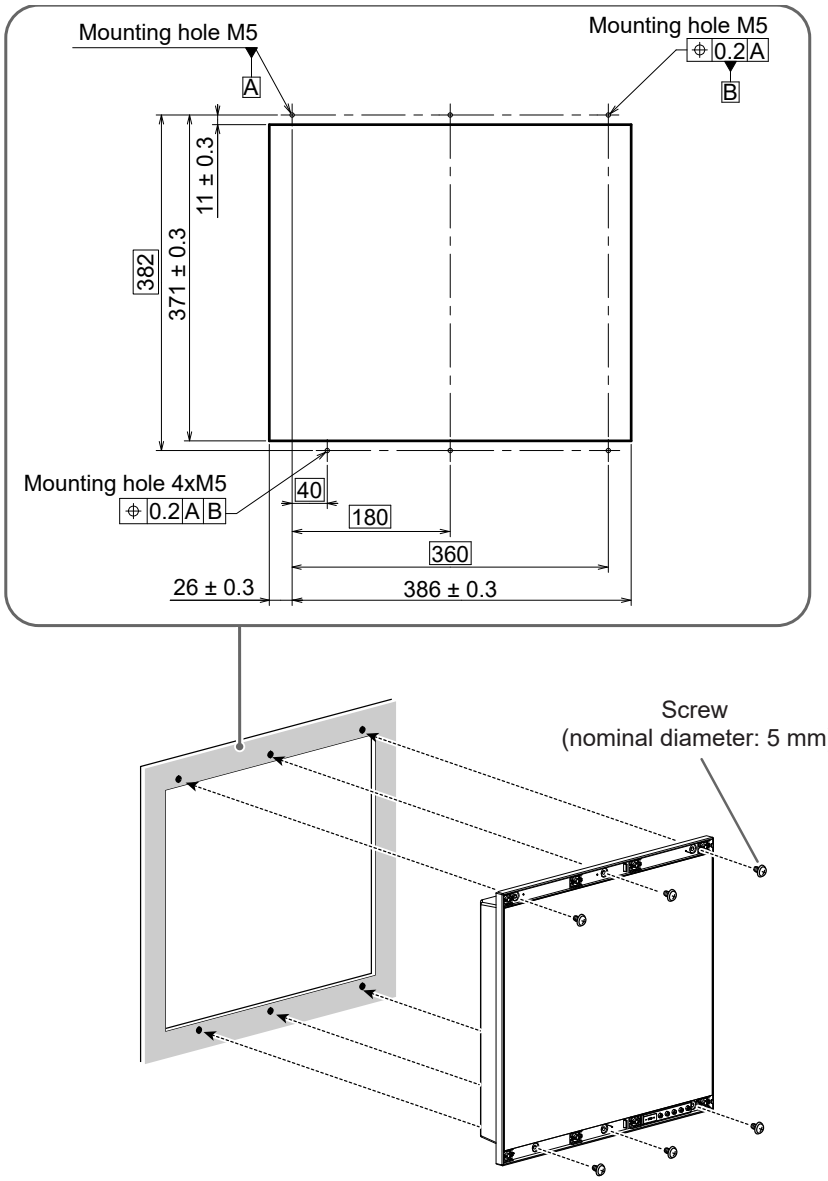


Screw cover (top/bottom)

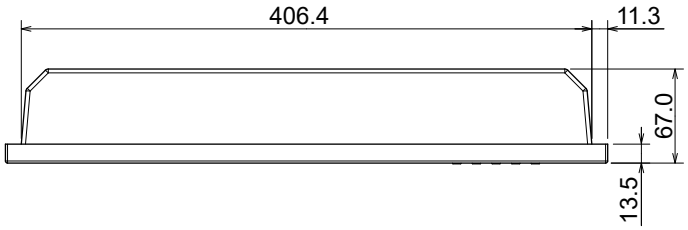
2. Fasten the screws through the enclosure mounting holes of the monitor (3 locations on the top and bottom) into the enclosure (recommended torque: 1.6 N·m to 1.8 N·m).

Mounting conditions

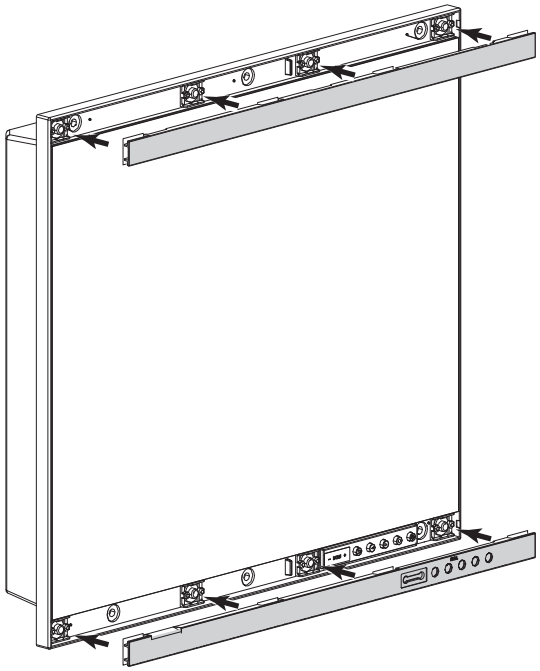
- Panel opening dimensions / Clearance between the screw mounting holes (unit: mm)



- Monitor thickness (unit: mm)



3. Attach the screw cover to the monitor.
   Insert it into the monitor.

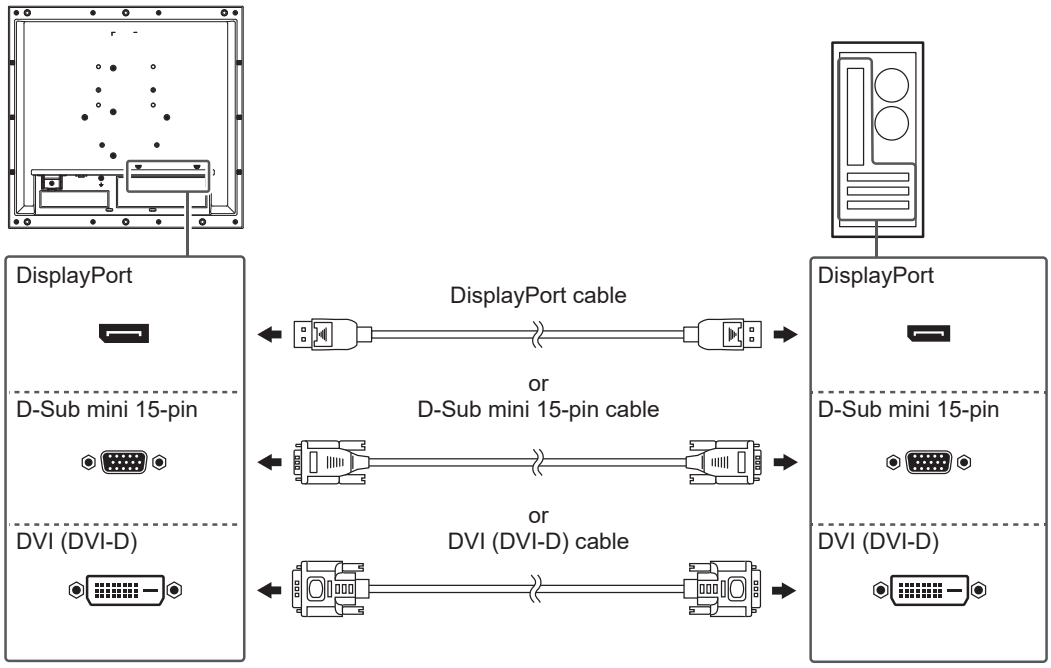


2.2 Connecting Cables

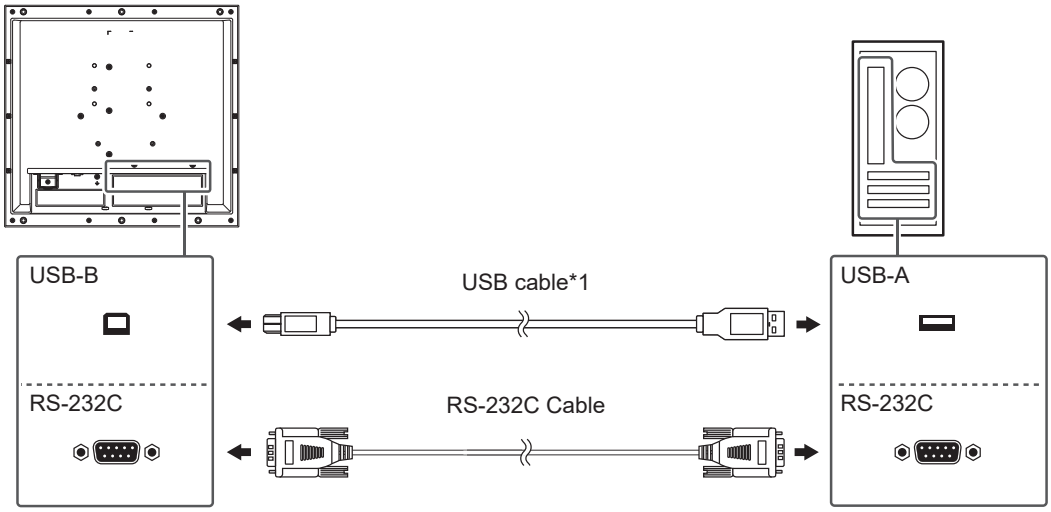
Attention

- Please make sure the cables are in good working condition before use.
- Check the shapes of the connectors, and connect the cables.
- When connecting to connectors with fixing screws, make sure to tighten the screws all the way to securely fasten them.

1. Connect signal cables.
   Prepare and connect cables that are appropriate for your computer.



2. Connect a USB cable or RS-232C cable (straight type). This is necessary when controlling the monitor from the system.
   For the touch panel model, connecting the USB cable is required to use the monitor as a touch panel. The touch panel only works on a USB-connected PC.



*1 When connecting a USB cable, fasten it with a cable tie so that it does not come off. A cable tie is not included with the product. Please prepare one separately.

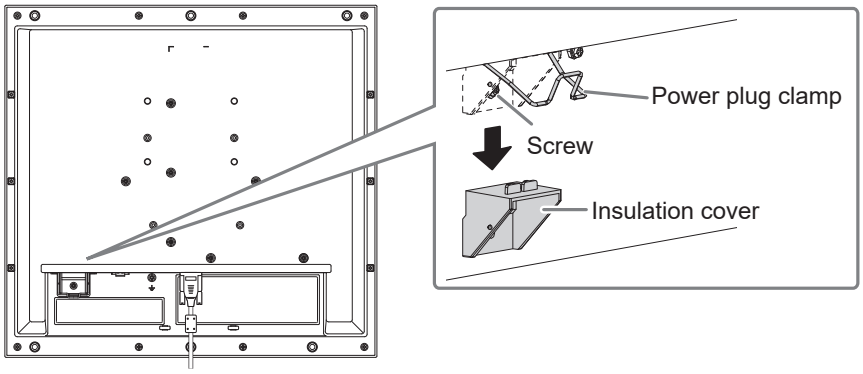
3. Connect the monitor to a power source.
   There are two ways to connect to the power supply. Connect with one of these methods according to the installation environment and usage conditions.
   - When using the AC power connector [▶ 19]
   - When using the DC power terminal block [▶ 20]

Attention
• Do not supply power to the monitor until it is connected to the power source.

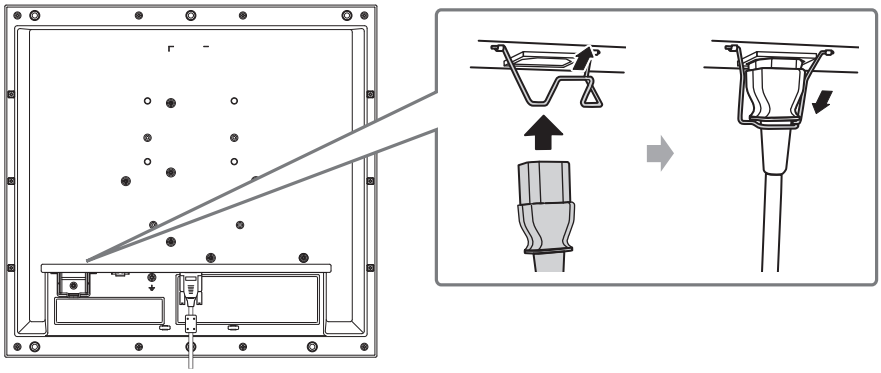
Note
• If both power sources are connected, the AC power is prioritized.

When using the AC power connector

1. Remove the screws securing the insulation cover.
2. Lift the power plug clamp and remove the insulation cover from the AC power connector.



3. Lift the power plug clamp and connect the power cord to the AC power connector.
4. After connecting the power cord, lower the power plug clamp and secure the power plug.

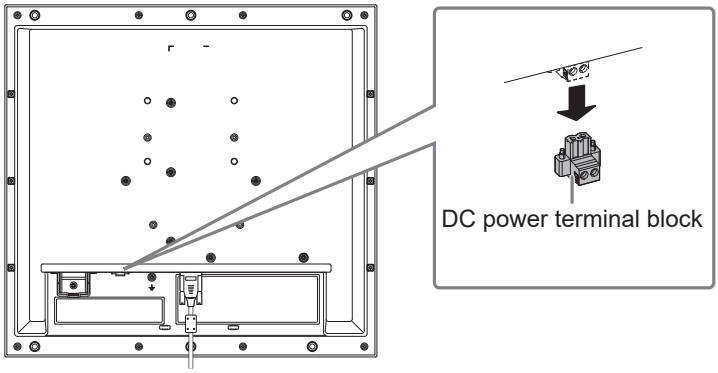


5. Connect the power cord to a power outlet.

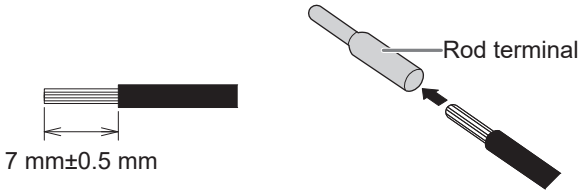
When using the DC power terminal block

Attention
• Use a power supply that complies with IEC 60950-1 standard SELV (Safety Extra-Low Voltage) or a power supply that complies with IEC 62368-1 standard ES1. • Use wires with a gauge size of AWG 18 to 12 (0.8 mm^2 to 3 mm^2).

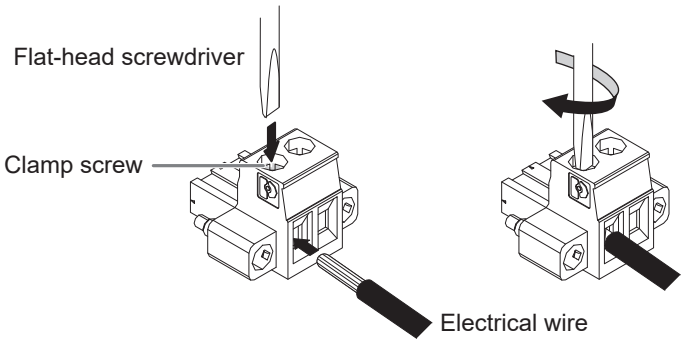
1. Remove the terminal block.



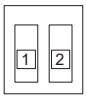
2. Strip the wire insulation (strip length: 7 mm ± 0.5 mm). If tip treatment is required, attach a rod terminal (ferrule). Use ferrules made by Phoenix Contact.



3. Insert the wires into the terminal block and tighten the clamp screws with a flat-head screwdriver with a tip width of 2.5 mm (recommended torque: 0.5 N·m to 0.6 N·m).

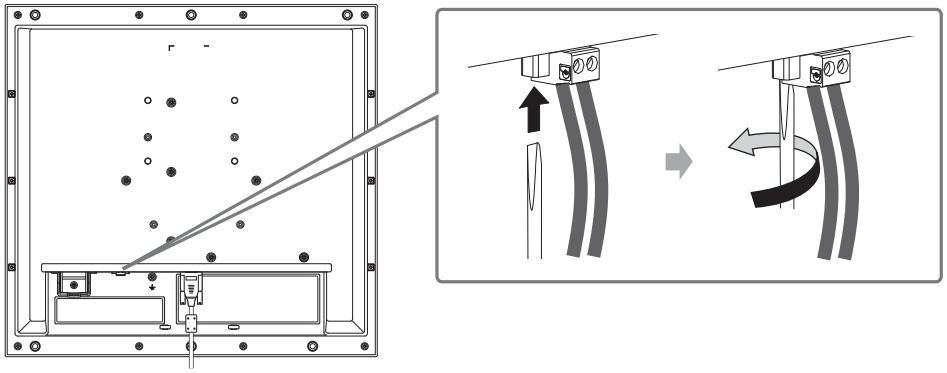


The input polarity of the terminal block is as follows.

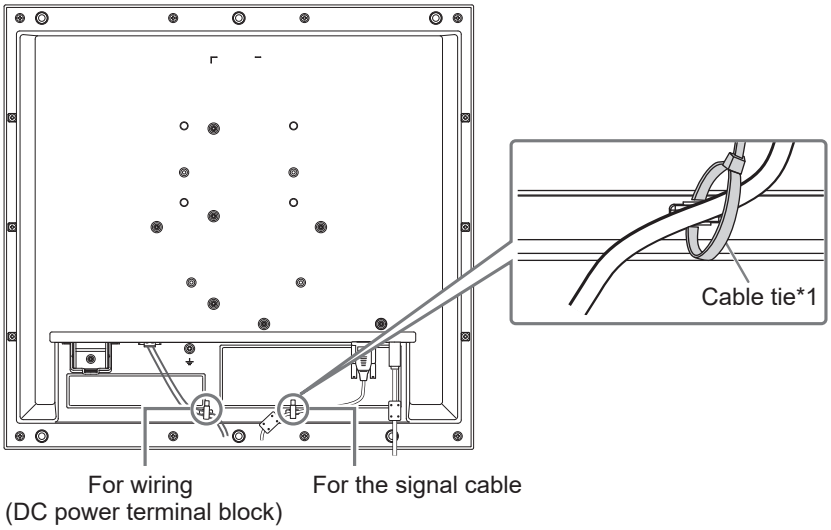


Pin No.	Input Polarity
1	DC+
2	DC-

4. Attach the terminal block and tighten the left and right clamp screws with a flat-head screwdriver with a tip width of 2.5 mm (recommended torque: 0.2 N·m to 0.3 N·m).



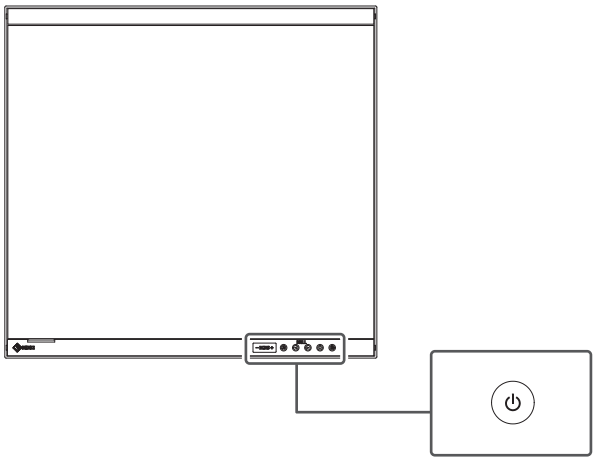
5. Fasten with a cable tie so that the cables do not come off.



*1 A cable tie is not included with the product. Please prepare one separately.

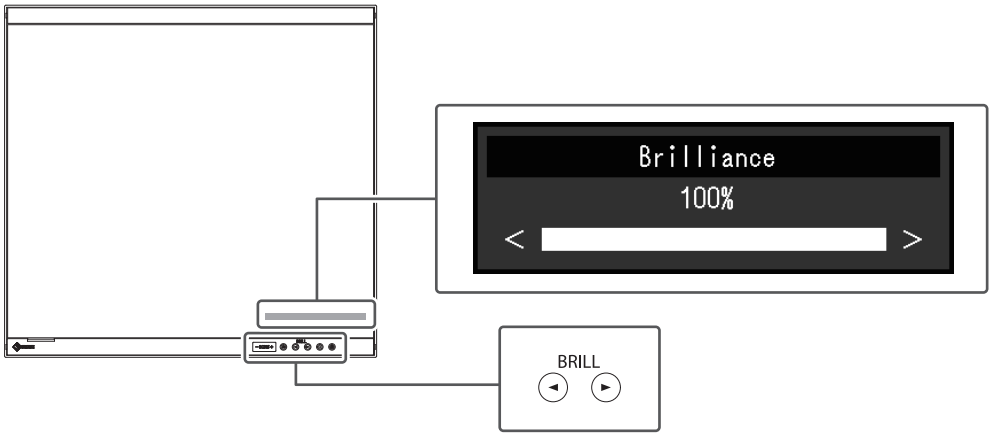
2.3 Displaying the Screen

1. Press ⏻ to turn on the monitor.
   The control buttons on the monitor will light up green.



Note
• The default language setting for this product is English, but Japanese message screens are used in this Setup Manual. For information on switching languages, refer to the User's Manual of the monitor.

2. Turn on your PC.
   The screen image appears.
   If the screen image does not appear after turning on the PC, refer to "No Picture" in the User's Manual.
3. The brightness of the screen can be adjusted to suit the installation environment or personal preference.
   Setting range: 0% to 100%



2.4 Setting Up the Touch Panel (Touch Panel Model Only)

2.4.1 Setting Up the Touch Panel

The touch panel functions of this product differ according to the driver used and the driver setup. Set it according to your application.

Function	Windows standard driver	Dedicated touch panel driver (DMT-DD)*1	
Driver installation	Not required	Required	
Touch sound output	-	✓	
Multiple connections*2	✓	✓	
Operation mode	Touch digitizer*3	Touch digitizer*3 *4	Mouse emulation*4
Multi-touch operation	✓	✓	-

*1 Can be downloaded from our web site (www.eizoglobal.com).

*2 Two or more of these monitors can be connected to a PC. Duplicate display (showing the same screen on multiple monitors) is not supported. Please use extended display mode instead.

*3 Touch operations may not be recognized in applications designed using mouse emulation.

*4 For more information about the setup procedure, refer to the User's Manual of the touch panel driver.

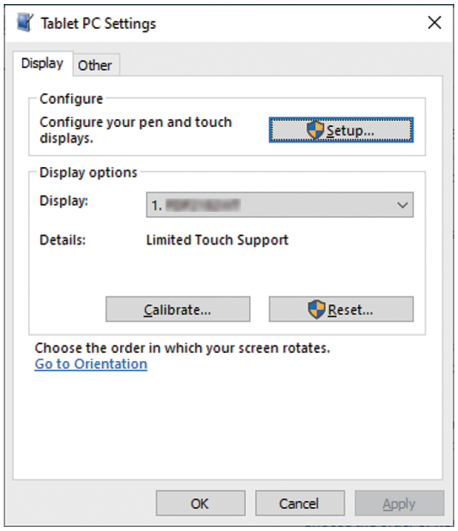
Attention

- After completing the settings, run the "TPOffset" software and adjust the sensitivity of the touch panel. TPOffset can be downloaded from our web site (www.eizoglobal.com).
- Always perform "TPOffset" during initial settings or when the setting environment is changed.

2.4.2 Setting up touch controls (when using standard Windows drivers)

Configure settings for touch controls in a multi-monitor environment.

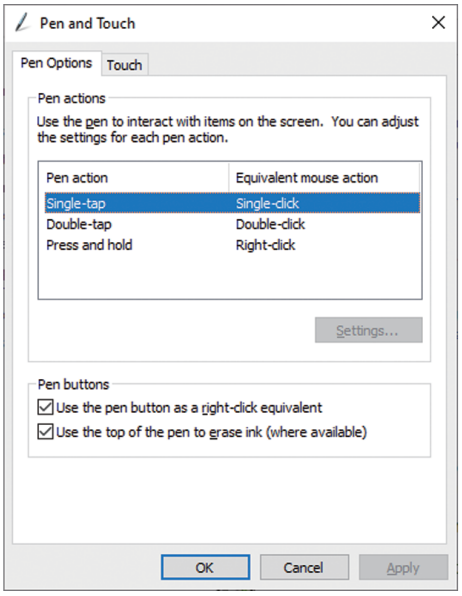
1. Open the Windows Control Panel.
   How to open differs depending on the operating system.
   Windows 11
   Open the Start menu, select "All Apps" - "Windows Tools" - "Control Panel."
   Windows 10
   From the Start menu, select "All Apps" - "Windows System" - "Control Panel."
2. Click "Hardware and Sound" - "Tablet PC Settings."
   The "Tablet PC Settings" screen appears.



3. Click "Setup" in the "Display" tab.
   A touchscreen specification screen with a white background is displayed.
4. Specify the touch panel monitor according to the on-screen instructions.
   The touched screen is recognized as the touchscreen.

2.4.3 Configure touch panel settings (when using the standard Windows driver)

1. Open the Windows Control Panel.
   How to open differs depending on the operating system (see Setting up touch controls (when using standard Windows drivers) [▶ 24]).
2. Click "Hardware and Sound" - "Pen and Touch."
   The "Pen and Touch" window appears.



   Configure the touch panel operation settings in the "Pen and Touch" window. For more details about the settings, see each setting screen and Windows help.
3. When you have completed the settings, click "OK" to close the screen.

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2.5 ECDIS Setup

This monitor can be integrated into an ECDIS (Electronic Chart Display and Information System).

To integrate it, the following information is required:

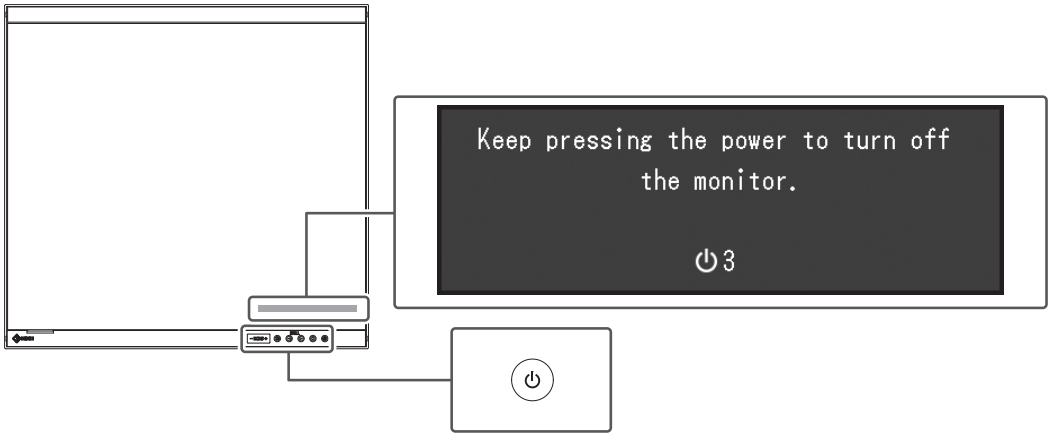
- ECDIS color table specifications
- Monitor control command specifications

For details, contact your dealer or local EIZO representative, or refer to our web site (www.eizoglobal.com).

To achieve compliance with ECDIS standards for display, settings are required on the monitor side. For more details, refer to the User's Manual of the monitor.

2.6 Turning Off the Power

1. Press and hold the ⏻ button for more than 5 seconds.
   After the remaining time until the power turns off is displayed on the screen, the power turns off.
   All operation buttons except the ⏻ button will turn off.



Attention

- To completely shut off the power, unplug the AC power cord and DC cable.



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