User's Manual

DuraVision®
MDS1901
Color LCD Monitor

Important

Carefully read this User's Manual and Setup Manual before use to use the monitor correctly.

- See the Setup Manual for monitor installation and connection.
- For the latest product information including the "User's Manual," refer to our web site:
  www.eizoglobal.com

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.

About This Product

About the Usage of This Product

- This product is intended for use in marine chart display systems, radar displays, or machinery monitoring on ships.
- It is not intended for use in applications such as the following that require extremely high reliability and safety. Please refrain from using it for such purposes.
  - Safety devices (Disaster prevention systems, security control systems, etc.)
  - Life-critical devices (medical devices, such as life-support devices and operating room devices)
  - Nuclear energy control devices (Nuclear energy control systems, security control systems of nuclear facilities, etc.)
- This product may not be covered by warranty for uses other than those described in this manual.
- The specifications noted in this manual are only applicable when the following are used:
  - Power cords provided with the product
  - Signal cables specified by us
- Only use optional products manufactured or specified by us with this product.

About the LCD Panel

- It takes about 30 minutes (under our measurement conditions) for the monitor display to stabilize. Please wait 30 minutes or more after the monitor power has been turned on, and then adjust the monitor.
- Monitors should be set to a lower brilliance to prevent a loss in the screen quality caused by long-term use and to maintain stable use.
- If the screen image is changed after displaying the same image for an extended period of time, an afterimage may remain on the screen. Use the screensaver or sleep function to avoid displaying the same image for an extended period of time. An afterimage may appear even after a short time period has elapsed depending on the displayed image. In such cases, change the image or keep the power turned off for several hours.
- If the monitor displays continuously over a long period of time, smudges or burn-in may appear. To maximize the life of the monitor, we recommend the monitor be turned off periodically.
- The LCD panel is manufactured using high-precision technology. Although, missing pixels or lit pixels may appear on the LCD panel, this is not a malfunction. Percentage of effective dots: 99.9994 % or higher.
- The backlight of the LCD panel has a fixed lifetime. Depending on the usage pattern, such as usage for long continuous periods, the lifespan of the backlight may run out sooner, requiring replacement. When the screen becomes dark or begins to flicker, please contact your local EIZO representative.
- Do not scratch or press on the LCD panel with any sharp objects, at this may result in damage to the LCD panel. Do not attempt to brush with tissues as this may scratch the panel.

- (Cautions for the Use of the Touch Panel)
  During touch operation
  Be careful of the following points. Otherwise, damage may occur to the monitor.
  - Do not strongly press, scratch, or poke the touch panel.
  - Do not touch the touch panel with hard objects such as ballpoint pens or metals.

About the Installation

- Dew condensation may form on the surface or interior of this product when it is brought into a cold room, when the temperature suddenly rises, or when it is moved from a cold room to a warm room. In that case, do not turn the product on. Instead wait until the dew condensation disappears, otherwise it may cause some damage to the product.

Cleaning

- Periodic cleaning is recommended to keep the product looking new and to prolong its operation lifetime.
- Gently wipe off any dirt on the product with a small amount of water or a soft cloth dampened with a mild detergent diluted in water.

Attention

- Never use a thinner, benzene, wax, or abrasive cleaner as they may damage the product.
- Use of alcohol or other chemicals for disinfection may lead to cracks, changes in gloss, discoloration, fading, or deterioration of display image quality. Be careful of the following points when using the product.
  - Do not let chemicals come into direct contact with the product.
  - Do not use wet wipers that have been impregnated with chemical solution, as they may contain a lot of liquid.
  - Do not allow chemicals to enter gaps or the interior of the product.
- For more information on cleaning and disinfection, please refer to our web site.
  How to check: Access www.eizoglobal.com and type "disinfect" in the site search box to search.

To Use the Monitor Comfortably

- An excessively dark or bright screen may affect your eyes. Adjust the brightness of the monitor according to the environmental conditions.
- Staring at the monitor for a long time tires your eyes. Take a 10-minute rest every hour.
- Look at the screen from a proper distance and from a proper angle.

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1 Introduction

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

1.1 Features

- 19.0" screen
- Supports 1280 x 1024 resolution
- Equipped with a wide viewing angle panel
- 10-point multi-touch support (touch panel model only)
- You can perform operations such as enlargement, reduction, and rotation using the multi-touch function
  The touch panel reacts via light touching of the screen with fingers, enabling comfortable flick and drag operations.
- Achieves high visibility and improved screen intensity through optical bonding[*1]
- Dimming down to low brightness
  Also equipped with a mode that turns off the backlight.
  (You can set the state when "Brilliance" in the adjustment menu is set to the lowest value.)
  (see Backlight Off Mode [▸ 18].)
- The front buttons of the monitor light up
  The front buttons (control buttons) light up in green so you can operate the monitor even in dark environments. You can also adjust the brightness of the light.
  (see Indicator [▸ 15].)
- Equipped with a warning buzzer
  It can be controlled from the system.
- Equipped with AC / DC power supply
  Equipped with AC and DC power inputs to support a variety of installation environments. In addition, by connecting to both power sources, it can be used as a backup power supply when an AC power failure occurs. (If connected to both, the AC power be prioritized.)
- Supports HDCP copyright protection technology
- Type approval of ship classification
  This product is pending approval for the following types of ship classifications:
  - NK (Nippon Kaiji Kyokai)
  - DNV (Norway Register of Shipping)
  - ABS (American Bureau of Shipping)
  - LR (Lloyd’s Register of Shipping)

  For the latest information on approvals for ship classifications, please refer to our web site.
  (www.eizoglobal.com)
- Maritime standards
  This product complies with the IEC60945 4th edition standard.

[*1] Technology that fills the gap (air space) between an LCD panel and a clear panel with resin and then bonds them together.

2 Basic Adjustment / Settings

This chapter describes the basic functions that can be adjusted and set by pressing the switches on the front of the monitor.

For advanced adjustment and setting procedures using the Setting menu, see 3 Advanced Adjustment / Setting [▶ 9].

2.1 Enabling or Disabling the Touch Panel (Touch Panel Model Only)

You can enable or disable the touch panel. This is useful when you want to temporarily disable the touch panel function.

1. Each time you press ⏎, the touch panel is enabled or disabled.
   The touch panel status is displayed at the bottom right of the screen.

2.2 Adjusting the Touch Sensitivity (Touch Panel Model Only)

You can adjust (calibrate) the touch sensitivity as needed. You can make adjustments if you experience problems with touch operations.

1. Press and hold ⏎.
   The touch sensitivity is adjusted. While the adjustment is in progress, a message is displayed in the lower-right corner of the screen.

Note

- Please make sure to run TPOffset after setting up the monitor.
- If the problem does not resolve after adjusting the touch sensitivity, run TPOffset. TPOffset can be downloaded from our web site (www.eizoglobal.com).

2.3 Adjusting Brightness

Settings: "0%" – "100%"

The brightness of the screen can be adjusted to suit the installation environment or personal preference.

The screen brightness is adjusted by changing the brightness of the backlight (light source from the LCD back panel).

1. Press ◀ or ▶.
   The brilliance adjustment screen appears.
2. Specify the setting using ◀ or ▶.
3. Press ● when you are finished with the settings.

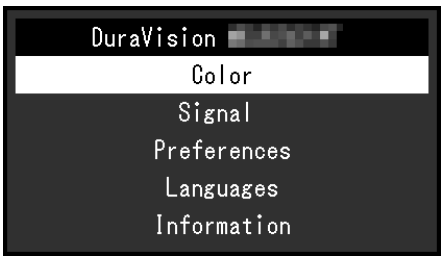
3 Advanced Adjustment / Setting

This chapter describes the advanced monitor adjustment and setting procedures using the Setting menu.

For basic functions, see 2 Basic Adjustment / Settings [▶ 8].

3.1 Basic Operation of the Setting Menu

1. Press ⦿.
   The Setting menu appears.



2. Select the menu to adjust/set with ◄►, then press ⦿.
   The Sub menu appears.



3. Select the menu to adjust/set with ◄►, then press ⦿.
   The Adjustment/Setting menu appears.



4. Perform adjustment/setting with ◄►, then press ⦿.
5. Pressing ⮌ several times will close the menu.

3.2 Setting Menu Functions

3.2.1 Color

The color mode settings can be adjusted according to personal preference. The adjusted settings are saved for each color mode.



Functions that can be adjusted differ depending on the color mode.

✓: Adjustable, -: Not adjustable

Function		Color Mode	
		Custom	Day Dusk Night
Brilliance		✓	✓
Contrast		✓	-
Temperature		✓	-
Gamma		✓	-
Advanced Settings	Hue	✓	-
	Saturation	✓	-
	Gain	✓	-
Reset		✓	✓

Attention

- It takes about 30 minutes for the monitor display to stabilize. Please wait 30 minutes or more after power to the monitor has been turned on before adjusting the monitor.
- The same image may be observed in different colors on multiple monitors due to monitor-specific characteristics. Make fine color adjustments visually when matching colors across multiple monitors. Follow the procedure below to adjust and match colors across multiple monitors.

1. Display a white screen on each monitor.
2. Use one of the monitors as a visual reference point to make adjustments to "Brilliance", "Temperature", and "Gain" on the other monitors.

Color Mode

Settings: "Custom" / "Day" / "Dusk" / "Night"

Switches display modes.

There are three modes (Day, Dusk, Night) that comply with the ECDIS standard, and a mode (Custom) that allows you to configure settings that suit your preferences.

Brilliance

Settings: "0%" – "100%"

The screen brightness is adjusted by changing the brightness of the backlight (light source from the LCD back panel).

Note

- The value shown in "%" is for reference.
- 0% can only be set when Backlight Off Mode is set to "On".
- You can also set by pressing ◄ or ► (see 2.3 Adjusting Brightness [▸ 8]).
- When adjusting the brilliance by holding down ◄ or ► , the adjustment will stop when the default setting is reached. If you press ◄ or ►, you can continue adjusting (When "ECDIS Indicator": "On" and "Color Mode": "Day", "Dusk", "Night").

Attention

- If you change the value to a value other than the default setting, the display will not conform to the ECDIS standard anymore.

Contrast

Settings: "0%" – "100%"

Adjusts the contrast between bright and dark areas of the screen.

Note

- The value shown in "%" is for reference.
- When the contrast is set to 100 %, all color gradations can be displayed.

Temperature

Settings: "Native" / "4000 K" – "10000 K" (in increments of 500 K. 9300 K is included) / "User"

Adjusts the color temperature.

The color temperature is normally used to express the hue of "White" and/or "Black" with a numerical value. The value is expressed in degrees "K" (Kelvin).

The screen becomes reddish at low color temperatures and bluish at high color temperatures, similar to the temperatures of a flame. A gain preset value is set for each color temperature setting value.

Note

- The value shown in "K" is available only as a reference.
- "Gain" allows you to perform more advanced adjustment (see Advanced Settings - Gain [▸ 12]).
- If set to "Native", the image is displayed in the preset color of the LCD panel (Gain: 100 for each RGB channel).
- When the gain is changed, the color temperature setting changes to "User".

Gamma

Settings: "1.8" / "2.0" / "2.2" / "2.4" / "2.6"

Adjusts the gamma value.

While the brightness of the monitor varies depending on the video level of the input signal, the variation rate is not directly proportional to the input signal. Maintaining the balance between the input signal and brightness of the monitor is referred to as "Gamma correction".

Advanced Settings - Hue

Settings: "-100" – "100"

This function allows you to adjust hue.

Note
• Using this function may prevent some color gradations from being able to be displayed.

Advanced Settings - Saturation

Settings: "-100" – "100"

This function allows you to adjust color saturation.

Note
• Using this function may prevent some color gradations from being able to be displayed. • The minimum value (-100) changes the screen to monochrome.

Advanced Settings - Gain

Settings: "0%" – "100%"

The brightness of each red, green, and blue color component is referred to as "Gain". The hue of "white" can be changed by adjusting the gain.

Note
• The value shown in "%" is for reference. • Using this function may prevent some color gradations from being able to be displayed. • The gain value changes according to the color temperature. • When the gain is changed, the color temperature setting changes to "User".

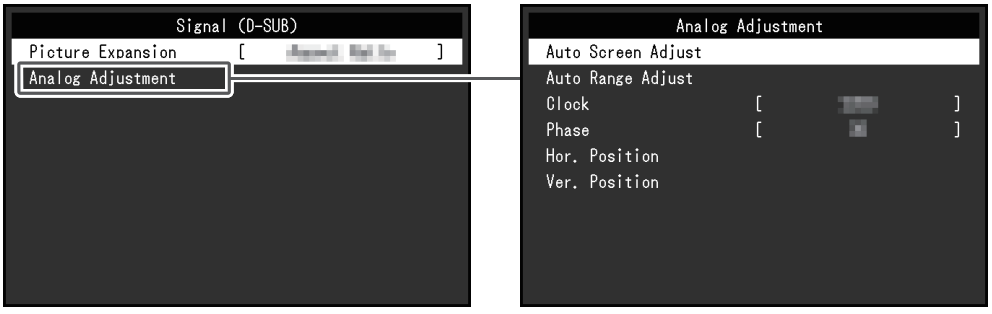
Reset

Resets any color adjustments for the currently selected color mode back to the default settings.

3.2.2 Signal

Set the details regarding input signal, such as the screen size and color format.

- D-Sub input



- DVI / DisplayPort™ input



The functions that can be set differ depending on the input signal.

✓: Can be set, -: Cannot be set.

Function	Input Signal		
	DisplayPort	DVI	D-SUB
Picture Expansion	✓	✓	✓
Analog Adjustment	-	-	✓

Picture Expansion

Settings: "Full Screen" / "Aspect Ratio" / "Dot by Dot"

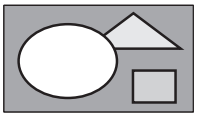
The screen size of the monitor display can be changed.

- "Full Screen"
  Images are stretched to full screen. Since aspect ratios are not maintained, images may be distorted in some cases.
- "Aspect Ratio"
  Images are stretched to full screen. Since aspect ratios are maintained, blank horizontal or vertical borders may appear.
- "Dot by Dot"
  Displays images at the set resolution or size specified by the input signal.

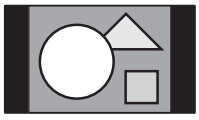
Note

- Setting example

Full Screen



Aspect Ratio



Dot by Dot (input signal)



- Set it to "Full Screen" when using it as a touch panel monitor.

Analog Adjustment - Auto Screen Adjust

Screen flickering, display position, and size can be adjusted automatically. Selecting "Auto Screen Adjust" displays a message. Select "Yes" to enable this function.

Note

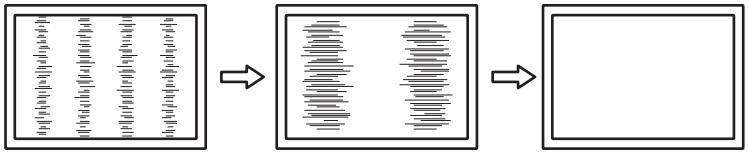
- The auto screen adjust function will operate correctly if an image is displayed in the entire displayable area of the screen. It will not operate correctly in the following cases:
  - When an image is displayed in only part of a screen like the command prompt
  - When black is used in the background, such as a wallpaper
    Also, when the function may not work correctly in part of the graphics board

Analog Adjustment - Auto Range Adjust

The signal output level can be automatically adjusted to enable display of all color gradations (0 to 255). When you select "Auto Range Adjust", a message will appear. Select "Yes".

Analog Adjustment - Clock

Flickering of vertical lines or part of the screen can be minimized.

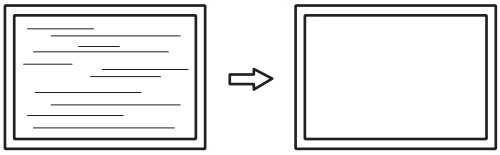


Note

- It is easy to overlook the point where the setting is suitable, so please finely adjust.

Analog Adjustment - Phase

Flickering or bleeding of the screen as a whole can be minimized.

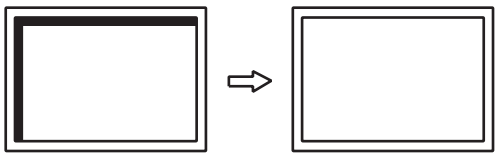


Note

- Flickering or bleeding may not fully disappear, depending on the PC and graphics board you are using.
- If vertical stripes appear on the screen after completing the setting, adjust "Clock" again.

Analog Adjustment - Hor. Position / Ver. Position

The display position (horizontal, vertical) of the screen can be adjusted.

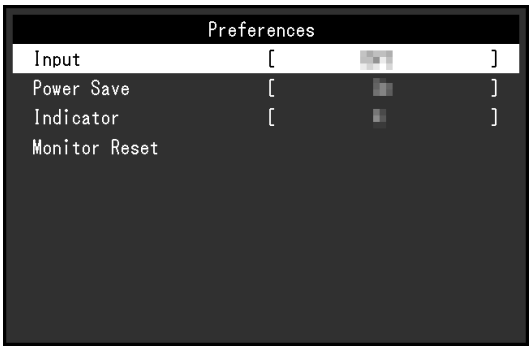


Note

- Since the number of pixels and the pixel positions are fixed on the LCD monitor, only one position is provided to display images correctly. The display position can be adjusted to set the image to its correct position.

3.2.3 Preferences

The monitor settings can be configured to suit your usage environment or preferences.



Input

Settings: "DVI" / "DisplayPort" / "D-SUB"

Selects the input signal.

Power Save

Settings: "On" / "Off"

The monitor can be set to enter power saving mode according to the state of the PC.

The monitor changes to power saving mode about 15 seconds after signal input ceases to be detected.

When the monitor has shifted to power saving mode, images are not displayed on the screen.

- Exiting power saving mode
  - The monitor automatically exits power saving mode when the monitor receives input

Note
• At the time of shifting to power saving mode, a message that indicates the transition is displayed five seconds in advance.

Indicator

Settings: "1" – "7"

The brightness of the control buttons and power button can be set. (Default setting: 4)

Monitor Reset

Restores all settings to their default settings except for the following settings:

- Settings on the "Administrator Settings" menu
- "Input" in the "Preferences" menu
- Enabling/disabling the touch panel

3.2.4 Languages

Settings: "English" / "German" / "French" / "Spanish" / "Italian" / "Swedish" / "Japanese" / "Simplified Chinese" / "Traditional Chinese"

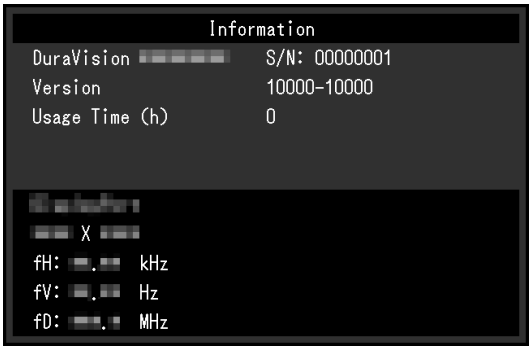
The display language for menus and messages can be selected.



3.2.5 Information

You can check the monitor information (model name, serial number (S/N), firmware version, usage time) and the input signal information.

Example:

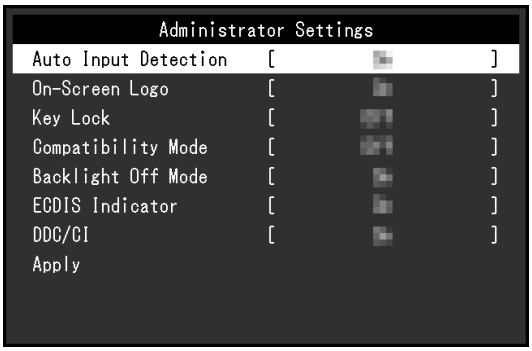


4 Administrator Settings

This chapter describes how to configure monitor operation using the "Administrator Settings" menu.

4.1 Basic Operation of the "Administrator Settings" Menu

1. Press and hold ⏻ for more than 5 seconds to turn off the monitor.
2. Holding down ⮌ and pressing ⏻ for more than 2 seconds will turn on the monitor.
   The "Administrator Settings" menu appears.

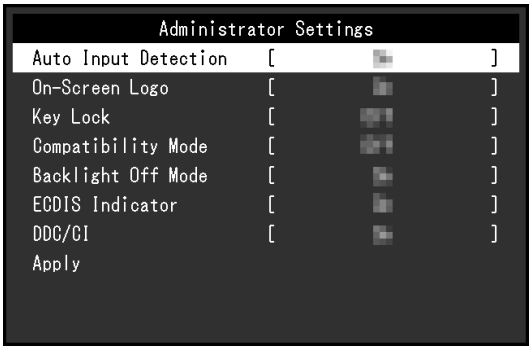


3. Select an item to set with ◄ ► then press ◉.
   The Adjustment/Setting menu appears.



4. Set with ◄ ►, then press ◉.
   The "Administrator Settings" menu appears.
5. Select "Apply" then press ◉.
   The settings are applied and the "Administrator Settings" menu exits.

4.2 Functions of the "Administrator Settings" Menu



Auto Input Detection

Settings: "On" / "Off"

This function automatically recognizes the connector through which PC signals are input, and displays images on the screen accordingly.

- "On"
  When the monitor is connected to multiple PCs, if a specific PC enters power saving mode or no signals are input to the monitor, the connector is automatically changed to another one to which signals are input.
- "Off"
  To be set to this when manually selecting input signals.

Note

- When this function is set to "On", the monitor only enters the power saving mode when signals are not input from any PC.

On-Screen Logo

Settings: "On" / "Off"

When the monitor is turned on, the EIZO logo appears on the screen.

When this function is set to "Off", the EIZO logo does not appear.

Key Lock

Settings: "Off" / "Menu" / "All"

In order to prevent changes to the settings, the operation buttons on the front of the monitor can be locked.

- "Off" (default setting)
  Enables all buttons.
- "Menu"
  Locks the ◉ button.
- "All"
  Locks all buttons except the power button.

Note

- When a button is pressed while the lock is on, "Locked" will be displayed on the screen.

Compatibility Mode

Settings: "On" / "Off"

If you want to avoid the following phenomena, set this function to "On":

- The positions of windows and icons are shifted when the monitor is turned off/on or has returned from the power saving mode.

Backlight Off Mode

Settings: "On" / "Off"

If it is set to "On" and "Brilliance" is set to the lowest value, the backlight turns off and the screen becomes completely black. (Except when the adjustment menu is displayed, when an input signal error is displayed, when the EIZO logo is displayed, etc.)

If it is set to "Off" and "Brilliance" is set to the lowest value, the screen will not become completely black.

ECDIS Indicator

Settings: "On" / "Off"

If this function is set to "On", the ECDIS indicator will light up.

Note

- The ECDIS indicator will not light up in the following cases.
  - When "ECDIS Indicator": "Off"
  - When "Color Mode": "Custom"
  - The monitor brilliance is not set according to the ECDIS adjustment value
  - Correct signal is not input

DDC/CI

Settings: "On" / "Off"

Switch between enabling or disabling DDC/CI communication.

5 Troubleshooting

5.1 No Picture

All control buttons do not light up

- Check whether the power cord is connected properly.

Only the power button lights up (in green)

- Press ⏻.

All control buttons light up (in green)

- Adjust the brightness of the screen (see Brilliance [▶ 11]).
- Try switching the input signal (see Input [▶ 15]).
- If "Backlight Off Mode" in the "Administrator Settings" menu is set to "On," try changing it to "Off" (see Backlight Off Mode [▶ 18]).
- In the "Administrator Settings" menu, set "Compatibility Mode" to "On" (see Compatibility Mode [▶ 18]).
- Move the mouse or press any key on the keyboard.
- Check whether the PC is turned on.
- Try touching the touch panel (touch panel model only).

The message "No Signal" appears on the screen

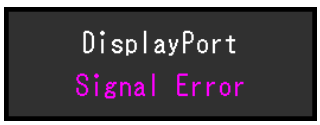
Example:



- The message shown above may appear, because some PCs do not output a signal immediately after power-on.
- Check whether the PC is turned on.
- Check whether the signal cable is connected properly.
- Switch the input signal.
- Try setting "Auto Input Detection" in the "Administrator Settings" menu to "Off" and switching the input signal manually (see Auto Input Detection [▶ 17]).

The message "Signal Error" appears on the screen

Example:



- Check whether the PC is configured to meet the resolution and vertical scan frequency requirements of the monitor (see 7.3 Compatible Resolutions [▶ 28]).
- Reboot the PC.
- Select an appropriate setting using the graphics board's utility. Refer to the User's Manual of the graphics board for details.

5.2 Imaging Problems (Digital and Analog)

The screen is too bright or too dark

- Adjust "Brilliance" in the Setting menu (see Color Adjustment [▶ 10]). (The LCD monitor backlight has a limited life span. If the screen becomes dark or begins to flicker, contact your local EIZO representative.)

The screen suddenly became dark / Even when increasing the value of "Brilliance" in the Adjustment menu, the screen does not become brighter

- This product constantly monitors the internal temperature of the monitor. If the internal temperature becomes too high and exceeds a certain level, it may limit the brightness to reduce the internal temperature. In such a case, you cannot set the brightness above the limit. This condition will return to normal when the internal temperature drops. If the internal temperature continues to rise, the power of the monitor will automatically turn off.

Letters and images are blurred

- Check whether the PC is configured to meet the resolution and vertical scan frequency requirements of the monitor (see 7.3 Compatible Resolutions [▶ 28]).
- Try setting the magnification of display on the OS to "100%". When using multiple monitors, try setting the magnification of display to "100%" on all monitors.

Afterimage visible

- Afterimages are particular to LCD monitors. Avoid displaying the same image for a long time.
- Use the screensaver or sleep function to avoid displaying the same image for an extended period of time.
- Depending on the image, an afterimage may appear even if it was displayed for a short period of time. In such cases, change the image or keep the power turned off for several hours.

Green / red / blue / white / dark dots remain on the screen

- This is due to LCD panel characteristics and not a malfunction.

Interference patterns or pressure marks remain on the LCD panel

- Leave the monitor with a white or black screen. The symptom may disappear.

The positions of windows and icons are shifted when the monitor is turned off/on or when restored from power saving mode

- Turn the setting "On" for "Compatibility Mode" on the "Administrator Settings" menu (see Compatibility Mode [▶ 18]).

Images are not displayed over the entire area of the screen

- Try changing "Picture Expansion" in the Setting menu (see Picture Expansion [▶ 13]).
- Check whether the setting for the resolution of the PC matches the resolution of the monitor.

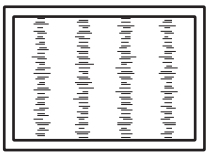
5.3 Imaging Problems (Analog only)

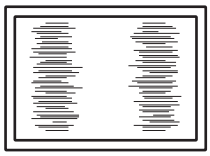
Screen is misaligned



- Use "Hor. Position" or "Ver. Position" in the Setting menu to adjust the positioning of the screen (see Analog Adjustment - Vertical Position / Horizontal Position [▶ 14]).
- If the graphics board's utility has a function to change the position of the image, use that function to adjust the position.

Vertical lines appear on the screen / Part of the screen is flickering





- Try adjusting "Clock" in the Setting menu (see Analog Adjustment - Clock [▶ 14]).

The whole screen appears to flicker or bleed

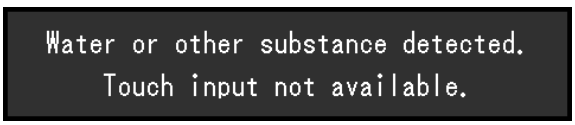


- Try adjusting "Phase" in the Setting menu (see Analog Adjustment - Phase [▶ 14]).

5.4 Touch Panel Problems (Touch Panel Model Only)

Touch operations do not work

- Check that the monitor and computer are connected with a USB cable.
- Press ⏻ (see 2.1 Enabling or Disabling the Touch Panel (Touch Panel Model Only) [▶ 8]).
- Check that the power cords of the monitor and PC are connected to a grounded main outlet. If not connected to ground, this may result in malfunction.
- Hold ⏻ (see 2.2 Adjusting the Touch Sensitivity (Touch Panel Model Only) [▶ 8]).
- Execute TPOffset to adjust the touch panel sensitivity.
- To prevent malfunction, this product automatically disables touch input if water droplets or foreign objects (such as a stylus or smartphone) are detected on the screen surface (Water Detection function). If the following message appears, remove any water or foreign objects from the screen surface and wait a moment before attempting to use the touch panel again.



The touch and cursor positions are misaligned / The cursor jumps

- Connect the monitor and PC via the supplied cable. The touch panel may not work correctly if a conversion adapter is used.
- Turn off the monitor, and then turn it on again.
- If you are using a dedicated touch panel driver, refer to the touch panel driver's User Manual to perform touch position calibration.
- Check that the power cords of the monitor and PC are connected to a grounded main outlet. If not connected to ground, this may result in malfunction.
- Hold ⮌ (see 2.2 Adjusting the Touch Sensitivity (Touch Panel Model Only) [▶ 8]).
- Changing the position or angle of the monitor may cause the cursor to jump.
- If an object with high dielectric properties, such as metal, is placed near the touch panel display area, it may cause malfunction. Maintain a distance of at least 10 mm between the touch panel display area and any metal or other similar materials.
- If the touch panel is dirty, the touch panel may not operate properly. Clean the touch panel (see Cleaning [▶ 4]).
- If you use a cleaner with an antistatic agent on the touch panel surface, this may affect the sensitivity of the touch panel and cause the cursor position to shift.
- Do not touch the touch panel for 5 seconds after the PC starts up, after turning on the monitor, or after connecting the USB cable. Touching the touch panel too soon may cause incorrect cursor positioning or disable touch operations. If this occurs, try restarting the monitor or pressing and holding ⮌.
- Execute TPOffset to adjust the touch panel sensitivity.
- In the Setting menu, set "Picture Expansion" to "Full Screen."
- When the display is set to a resolution other than the recommended one, the touch position and cursor position may be misaligned due to the effects of the scaling function. In the graphics board utility, change the scaling setting from monitor scaling to graphics board scaling.

The cursor is not displayed at the touch position, but is displayed in the center of the monitor

- If you are using a dedicated touch panel driver, refer to the touch panel driver's User Manual to perform touch position calibration.

Cursor shakes / Drawing lines are unstable

- Check that the power cords of the monitor and PC are connected to a grounded main outlet. If not connected to ground, this may result in malfunction.
- Execute TPOffset to adjust the touch panel sensitivity.
- If an object with high dielectric properties, such as metal, is placed near the touch panel display area, it may cause malfunction. Maintain a distance of at least 10 mm between the touch panel display area and any metal or other similar materials.
- When multiple monitors are placed close to each other, leave space between the monitors.

Touch panel correction does not function correctly

- If you are using a dedicated touch panel driver, see the User Manual of the touch panel driver.

Touch sounds do not work

- If you are using a Windows standard driver, touch sounds will not output. If you want to output touch sound, use the dedicated touch panel driver (see the Setup Manual).

Multi-touch does not work

- Reboot the PC.
- If you are using a dedicated touch panel driver, refer to the Touch Panel Driver User's Manual.

5.5 Other Problems

The Setting menu does not appear

- Check whether the operation lock function is enabled (see Key Lock [▶ 18]).

Even when the mouse or keyboard are used, the PC does not return from sleep

- Turn the setting "On" for "Compatibility Mode" on the "Administrator Settings" menu (see Compatibility Mode [▶ 18]).

6 Maintenance

6.1 Periodic confirmation of buzzer warning sound

- This monitor is equipped with a buzzer that can produce warning sounds under system control.
- It is recommended to periodically verify that the buzzer warning sound is functioning. For verification, please use the system control.

Note
• For more information on system control, please contact your local EIZO representative.

7 Reference

7.1 Specifications

7.1.1 LCD Panel

Backlight		LED
Size		19.0" (48.2 cm)
Resolution		1280 dots x 1024 lines
Display Size (H x V)		376.3 mm x 301.1 mm
Pixel Pitch (H x V)		0.294 mm x 0.294 mm
Display Colors		8 bit colors: 16.77 million colors
Viewing Angle (H / V, typical)		178° / 178°
Maximum Brightness (typical)		350 cd/m^2 (model without touch panel) 340 cd/m^2 (model with touch panel)
Contrast Ratio (typical)		2000 : 1
Response Time (typical)	Black -> White -> Black	20 ms

7.1.2 Protective glass (model without touch panel)

Surface coating	Anti-reflection, anti-fingerprint
Surface hardness	5H

7.1.3 Touch panel (model with touch panel)

Surface treatment	Anti-glare, Anti-fingerprint
Surface hardness	5H
Communication method	USB transfer
Detection Method	Projected capacitive technology
Supported Operating Systems*1	Windows 11 Windows 10 (32 bit / 64 bit)
Number of simultaneous touch points	Max. 10 points

*1 EIZO support will end when OS vendor support ends.

7.1.4 Video Signals

Input Terminals		DisplayPort (HDCP 1.3 compatible) x 1, DVI-D (HDCP 1.4 compatible) x 1, D-Sub mini 15-pin x 1
Digital Scanning Frequency (H / V *1)	DisplayPort, DVI-D	31 kHz – 76 kHz / 59 Hz – 61 Hz, 69 Hz – 71 Hz (at 720 x 400)
Analog Scanning Frequency (H / V *1)	D-Sub	31 kHz – 81 kHz / 56 Hz – 76 Hz
Dot Clock (Max.)	DisplayPort, DVI-D	110 MHz
	D-Sub	136 MHz
Synchronization Signal		H / V separate, positive / negative

*1 The vertical scan frequency supported varies according to the resolution. For more information, see 7.3 Compatible Resolutions [▶ 28].

7.1.5 Communication

USB	Port	USB-B connector (upstream) x 1
	Standard	USB Specification Revision 2.0
RS-232C	Port	D-Sub 9 pin (female) x 1

7.1.6 Power

Input	AC	100 V – 240 V +10% / -15%, 50 / 60 Hz, 0.30 A – 0.20 A
	DC	24 V +30% / -10%, 1.15 A
Maximum Power Consumption	AC	29 W or less
	DC	27 W or less
Power Saving Mode	AC	5 W or less*1
	DC	5 W or less*1
Standby Mode	AC	5 W or less*1
	DC	5 W or less*1

*1 No external load is connected, default setting

7.1.7 Physical Specifications

Dimensions (W x H x D)	429.0 mm x 406.0 mm x 67.0 mm
Net Weight	Approx. 6.3 kg (model without touch panel) Approx. 6.9 kg (model with touch panel)

7.1.8 Operating Environmental Requirements

Temperature	-15 ˚C – 55 ˚C
Humidity	10 % – 93 % R.H. (no dew condensation)
Air Pressure	540 hPa – 1060 hPa

7.1.9 Transport / Storage Conditions

Temperature	-20 ˚C – 60 ˚C
Humidity	10 % – 93 % R.H. (no dew condensation)
Air Pressure	540 hPa – 1060 hPa

7.1.10 Viewing Distance

Viewing Distance (recommended)	1014 mm or more (based on IEC 62288)

7.1.11 Protection structure

Front	IP65
Back	IP22

7.2 Main default settings

Brilliance	Custom: 100% Day: 79% Dusk: 64% Night: 41%
Contrast	100%

7.3 Compatible Resolutions

The product supports the following resolutions:

✓: Supported, -: Not supported

Resolution	Vertical scan frequency (Hz)	DisplayPort	DVI	D-Sub
640 x 480	59.940	✓	✓	✓
640 x 480	60.000	✓	✓	✓
640 x 480	72.809	-	-	✓
640 x 480	75.000	-	-	✓
720 x 400	70.087	✓	✓	✓
800 x 600	56.250	-	-	✓
800 x 600	60.317	✓	✓	✓
800 x 600	72.188	-	-	✓
800 x 600	75.000	-	-	✓
1024 x 768	60.004	✓	✓	✓
1024 x 768	70.069	-	-	✓
1024 x 768	75.029	-	-	✓
1280 x 960	60.000	✓	✓	✓
1280 x 1024*1	60.020	✓	✓	✓
1280 x 1024*1	75.025	-	-	✓

*1 Recommended resolution

Note

- Only progressive is supported for the Scan Format.

Appendix

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Testing Standard

This product complies with the IEC60945 4th edition standard.

Equipment category: b) protected from the weather

Type Approval of Ship Classification

This product is pending approval for the following types of ship classifications:

- NK (Nippon Kaiji Kyokai)
- DNV (DNV Register of Shipping)
- ABS (American Bureau of Shipping)
- LR (Lloyd's Register of Shipping)

* For the latest information on approvals for ship classifications, please refer to our web site.

(www.eizoglobal.com)

Other Certifications

This product is pending approval for EU RO MR TAC (EU mutual recognition).

* For the latest information on certifications, please refer to our web site.

(www.eizoglobal.com)

Warning for Radio interference

For Europe, etc Only

Warning

Operation of this equipment in a residential environment could cause radio interference.

Warnung

Der Betrieb dieses Geräts in einer Wohnumgebung könnte Funkstörungen verursachen.

Avertissement

L'utilisation de cet équipement dans une zone résidentielle pourrait provoquer des interférences radio.

LIMITED WARRANTY

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The period of this Warranty is three (3) years from the date of purchase of the Product (hereinafter referred to as the "Warranty Period").

EIZO and Distributors shall bear no liability or obligation with regard to the Product in relation to the Original Purchaser or any third parties other than as provided under this Warranty.

EIZO and Distributors will cease to hold or store any parts (excluding design parts) of the Product upon expiration of ten (10) years after the production of the Product is discontinued.

In repairing the Product, EIZO and Distributors will use renewal parts which comply with our QC standards. If the unit cannot be repaired due to its condition or the stockout of a relevant

part, EIZO and Distributors may offer the replacement by a product with equivalent performance instead of repairing it.

The Warranty is valid only in the countries or territories where the Distributors are located. The Warranty does not restrict any legal rights of the Original Purchaser.

Notwithstanding any other provision of this Warranty, EIZO and Distributors shall have no obligation under this Warranty whatsoever in any of the cases as set forth below:

1. Any defect of the Product caused by freight damage, modification, alteration, abuse, misuse, accident, incorrect installation, disaster, adherent dust, faulty maintenance and/or improper repair by third party other than EIZO and Distributors;
2. Any incompatibility of the Product due to possible technical innovations and/or regulations;
3. Any deterioration of the sensor, including measurement value of the sensor;
4. Any defect of the Product caused by external equipments;
5. Any defect of the Product caused by the use under environmental conditions not anticipated by EIZO;
6. Any deterioration of the attachments of the Product (e.g. cables, User's Manual, CD-ROM, etc.);
7. Any deterioration of the consumables, and/or accessories of the Product (e.g. batteries, remote controller, touch pen, etc.);
8. Any exterior deterioration or discoloration of the Product, including that of the surface of the LCD panel, the touch panel and the protect panel;
9. Any defect of the Product caused by placement in a location where it may be affected by strong vibrations or shocks;
10. Any defect of the Product caused by leaking battery liquid;
11. Any deterioration of display performance caused by the deterioration of expendable parts such as the LCD panel and/or backlight, etc. (e.g. changes in brightness, changes in brightness uniformity, changes in color, changes in color uniformity, defects in pixels including burnt pixels, etc.);
12. Any deterioration or malfunction of the cooling fan caused by adherent dust.

To obtain service under the Warranty, the Original Purchaser must deliver the Product, freight prepaid, in its original package or other adequate package affording an equal degree of protection, assuming the risk of damage and/or loss in transit, to the local Distributor. The Original Purchaser must present proof of purchase of the Product and the date of such purchase when requesting services under the Warranty.

The Warranty Period for any replaced and/or repaired product under this Warranty shall expire at the end of the original Warranty Period.

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