

# Instructions for Use

## ■ User's Manual

# RadiForce<sup>®</sup> MX191

Color LCD Monitor

### Important

Please read PRECAUTIONS, this User's Manual, and the Setup Manual (separate volume) carefully to familiarize yourself with safe and effective usage.

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- Please refer to the Setup Manual for basic information ranging from connection of the monitor to a PC to using the monitor.
  - The latest User's Manual is available for download from our web site:  
<http://www.eizo.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.

- It shall be assured that the final system is in compliance to IEC60601-1-1 requirement.
- Power supplied equipment can emit electromagnetic waves, that could influence, limit or result in malfunction of the monitor. Install the equipment in a controlled environment, where such effects are avoided.
- This is a monitor intended for use in a medical imaging system. It does not support the display of mammography images for diagnosis.

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# Notice for this monitor

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This product is suited to clinical review. It does not support the display of mammography images for diagnosis.

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This product has been adjusted specifically for use in the region to which it was originally shipped. If the product is used outside the region, it may not operate as specified in the specifications.

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This product may not be covered by warranty for uses other than those described in this manual.

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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
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Only use optional products manufactured or specified by us with this product.

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As it takes about 30 minutes for the performance of electrical parts to stabilize, adjust the monitor 30 minutes or more after the monitor power has been turned on.

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Monitors should be set to a lower brightness to reduce changes in luminosity caused by long-term use and maintain a stable display.

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When the screen image is changed after displaying the same image for extended periods of time, an afterimage may appear. Use the screen saver or power save function to avoid displaying the same image for extended periods of time.

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Periodic cleaning is recommended to keep the monitor looking new and to prolong its operation lifetime. (refer to “[Cleaning](#)” on the next page.)

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The screen may have defective pixels or a small number of light dots on the screen. This is due to the characteristics of the panel itself, and is not a malfunction of the product.

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The backlight of the LCD panel has a fixed lifetime. When the screen becomes dark or begins to flicker, please contact your dealer.

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Do not press on the panel or edge of the frame strongly, as this may result in display malfunctions, such as interference patterns, etc. If pressure is continually applied to the panel, it may deteriorate or damage your panel. (If the pressure marks remain on the panel, leave the monitor with a black or white screen. The symptom may disappear.)

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Do not scratch or press on the panel with any sharp objects, as this may result in damage to the panel. Do not attempt to brush with tissues as this may scratch the panel.

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When the monitor is cold and brought into a room or the room temperature goes up quickly, dew condensation may occur on the interior and exterior surfaces of the monitor. In that case, do not turn the monitor on. Instead wait until the dew condensation disappears, otherwise it may cause some damage to the monitor.

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## Cleaning

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### Attention

- Chemicals such as alcohol and antiseptic solution may cause gloss variation, tarnishing, and fading of the cabinet or panel, and also quality deterioration of the image.
  - Never use any thinner, benzene, wax, and abrasive cleaner, which may damage the cabinet or panel.
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### NOTE

- The optional ScreenCleaner is recommended for cleaning the cabinet and panel surface.
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If necessary, the stains on the cabinet and panel surface can be removed by moistening part of a soft cloth with water.

## To use the monitor comfortably

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- 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.

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# Chapter 1 Features and Overview

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

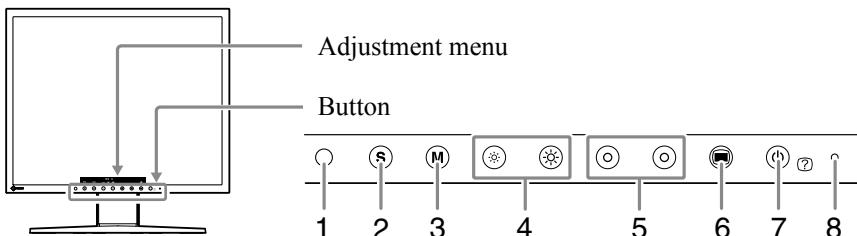
## 1-1 Features

- Over drive circuit for clear motion pictures
- Dual-input system (DVI-D, D-sub)
  - 3-1 "Connecting Two PCs to the Monitor" ([page 24](#))
- Auto EcoView
  - 2-5 "Setting Enable/Disable for the automatic brightness adjustment function" ([page 20](#))
- Sharpness
  - 2-4 "Adjusting Sharpness" ([page 20](#))
- Auto adjust
  - 2-2 "Screen Adjustment" ([page 12](#))
- 11 bit gamma correction
  - "To adjust the gamma value" ([page 17](#))
- DICOM mode (CAL Switch function)
  - To select the display mode (CAL Switch mode) ([page 15](#))
- CAL Switch function for selecting an optimal calibration mode
- The quality control software "RadiCS LE" (for Windows) used to calibrate the monitor is included
  - Refer to the EIZO LCD Utility Disk
- Adjustment menu to execute the target function by simple operation.
  - 1-3 "Basic operation of Adjustment menu and the icon list" ([page 8](#))
- The utility software "ScreenManager Pro for Medical" (for Windows) to control the monitor from a PC with mouse/keyboard is included
  - Refer to the EIZO LCD Utility Disk
- HDCP (High-bandwidth Digital Content Protection)

### NOTE

- The stand of the unit can be replaced with an arm (or another stand). (Refer to "5-1 Attaching an Arm" on [page 28](#).)

## 1-2 Buttons and Indicators



1. Sensor (Auto EcoView)
2. **S** button
3. **M** button
4. buttons
5. button
6. button
7. button
8. Power indicator

Indicator status	Operation status
Blue	The screen is displayed (Power on)
Orange	Power saving (Power on)
Off	Power off

### NOTE

- While the screen is displayed, the power indicator that is lighting blue can be turned off (see “Setting Power Indicator ON/OFF” on [page 22](#)).

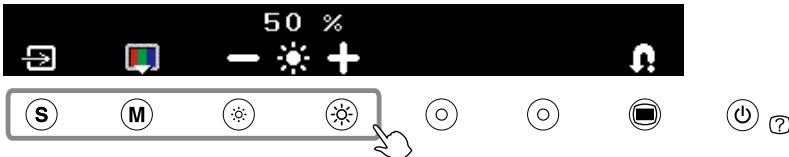
# 1-3 Basic operation of Adjustment menu and the icon list

## Basic operation of Adjustment menu

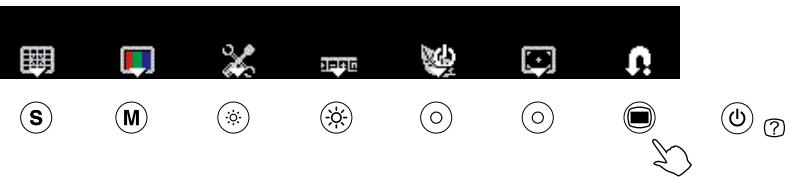
### Displaying the adjustment menu

Pressing the function button to change the setting or pressing  allows you to display the adjustment menu.

#### When pressing the input signal selection, mode or brightness control



#### When pressing the menu button



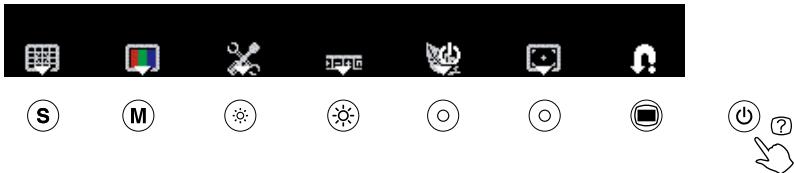
### Modifying the setting

The operation methods differ depending on the icons.

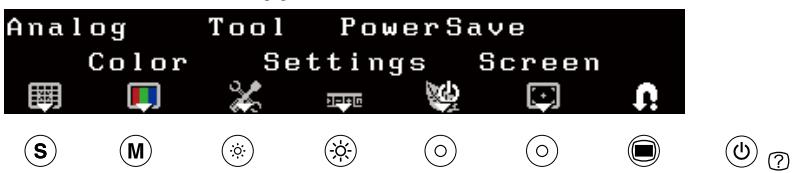
Example	Operation method
	As for the icons displayed with the +/- marks, selecting + allows you to increase the setting value or selecting - to decrease it.
	Selecting the icon displayed with ▽ mark allows you to show the next menu.
	The Enable/Disable setting is toggled by selecting the icon. X is displayed when the function is invalid.

### Displaying the function name

#### (1) Press while the adjustment menu appears.



#### (2) The function name appears.



### Storing the setting/Exiting the adjustment menu

After completing the setting, selecting  allows you to store the setting. Selecting  repeatedly allows you to close the adjustment menu.

#### NOTE

- The adjustment menu automatically finishes when no input operation occurs in 45 seconds.

## Adjustment menu icon list

Icon	Function	Overview	Icon	Function	Overview
	—	Determines the setting. Selecting the icon repeatedly allows you to close the adjustment menu.		Hue	Adjusts the hue. If you set the hue to a high value, the image turns greenish. If low, the image turns purplish. Adjustable range: -100 to 100
		Analog		Saturation	Adjusts the color saturation. Adjustable range: -100 to 100
	AutoSize	Flickering, screen position, and screen size are adjusted automatically. Returns to the pre-adjusted status. Determines the adjustment.		Temperature	Adjusts the color temperature. The gain preset values are set for each color temperature setting value. Adjustable range: Native, 6500K-15000K (specified by every 500K unit, including 9300K), User (at gain adjustment)
	AutoRange	Every color gradation (0 to 255) can be displayed by adjusting the signal output level. Returns to the pre-adjusted status. Determines the adjustment.		Gamma	Adjusts the gamma value. Adjustable range: 1.8, 2.0, 2.2
	Manual	Performs advanced adjustment when the automatic adjustment fails. The adjustments for clock, phase and position proceed in this order.			Tool
	Clock	Eliminates vertical bars.		Info1	Displays the input signal status (analog/digital), resolution, H/V frequency.
	Phase	Removes flickering or blurring.		Info2	Displays the model name, usage time and serial number.
	Position	Correct screen position with   .		Input Signal	Sets to detect the input signal automatically. The Enable/Disable setting is toggled by selecting the icon.
		Color		Reset	Resets the adjustment values to the factory settings. <b>Attention</b> <ul style="list-style-type: none"><li>After resetting, you cannot undo the operation.</li></ul> All : Resets all adjustments to the default settings (factory settings). Color (DICOM*) : Only the adjustment values in the current CAL Switch mode will revert to the default settings (factory settings).
	Mode*	Selects the best display mode easily according to monitor's application. Each time you press the button, the mode is switched.	* Current CAL Switch mode is displayed.		
	Brightness	Adjusts the screen brightness. Adjustable range: 0 to 100%			
	Contrast	Adjusts the contrast. Adjustable range: 0 to 100%			
	Gain	Determines the mixing rate of red, green and blue, and adjust the color tone. Adjustable range: 0 to 100% Allows you to determine the mixing rate of red. Allows you to determine the mixing rate of green. Allows you to determine the mixing rate of blue.			
	Advanced	Adjusts each function of hue and saturation.			

Icon	Function	Overview
	Settings	
	Language	Selects a language for the adjustment menu or displaying message. The language setting is toggled by selecting the icon.
	PowerSave	
	Auto EcoView	The sensor on the front side of the monitor detects the environmental brightness to adjust the screen brightness automatically and comfortably by using the Auto EcoView function. The Enable/Disable setting is toggled by selecting the icon.
	Power LED	Sets the power indicator (blue) ON/OFF in the monitor ON condition. The On/Off setting is toggled by selecting the icon.
	Off Timer	Turns off the monitor automatically after a specified time has passed. This function serves to protect the monitor from after-images caused when the same image is left displayed for a long time. Use this function when an image is displayed throughout the day. Adjustable range: Off, 1 to 23h
	Screen	
	Sharpness	Emphasizes the outline of the image by emphasizing the color difference between the pixels composing the image and to improve a sense of quality and materiality. Contrarily, this function allows you to show the image smoothly by blurring the outline of the image.

# Chapter 2 Settings and Adjustments

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## 2-1 Utility Disk

An “EIZO LCD Utility Disk” (CD-ROM) is supplied with the monitor. The following table shows the disk contents and the overview of the application software programs.

### ● Disk contents and software overview

The disk includes application software programs for adjustment, and User's Manual. Refer to “Readme.txt” file on the disk for software startup procedures or file access procedures.

Item	Overview
A “Readme.txt” file	
RadiCS LE (for Windows)	RadiCS LE is quality control software used to calibrate the monitor and manage the calibration history. (A PC must be connected to the monitor with the supplied USB cable.) Refer to the description later.
ScreenManager Pro for Medical (for Windows)	A utility software program to control monitor adjustments from a PC using its mouse and keyboard. (A PC must be connected to the monitor with the supplied USB cable.) Refer to the description later.
User's Manual of this monitor (PDF file)	

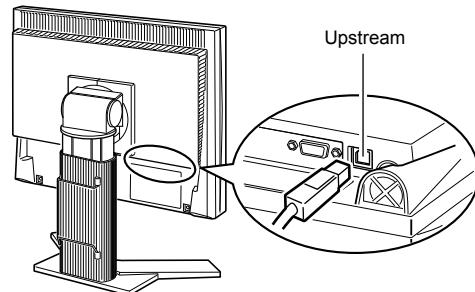
### ● To use RadiCS LE or ScreenManager Pro for Medical

Refer to the corresponding User's Manual on the CD-ROM disk in order to install and use the software.

When using this software, you will need to connect a PC to the monitor with the supplied USB cable.

#### [Connection]

- (1) Connect the USB port (downstream) of a USB compatible PC (or other USB hub) and the monitor's USB port (upstream) with the supplied USB cable.
- (2) The USB function is set up automatically upon connection of the USB cable.



## 2-2 Screen Adjustment

### Digital Input

When digital signals are input, images are displayed correctly based on the preset data of the monitor. When performing the advanced adjustment, see “2-3 Color Adjustment” (page 15) and its subsequent pages.

### Analog Input

The monitor screen adjustment is used to suppress flickering of the screen or adjust screen position and screen size correctly according to the PC to be used.

To use the monitor comfortably, adjust the screen when the monitor is set up for the first time or when the settings of the PC in use are updated. No adjustment is required when the image appears correctly.

**The auto adjust function works in the following cases:**

- **When a signal is input into the monitor for the first time**
- **When the resolution or Vertical/Horizontal Frequency of input signals is changed**

#### [Adjustment Procedure]

##### 1 Perform the AutoSize adjustment.

- **To adjust flickering, screen position, and screen size automatically [AutoSize]**

- (1) Press . The adjustment menu appears.
- (2) Select  (Analog).
- (3) Select  (AutoSize). Flickering, screen position, and screen size are adjusted automatically.
- (4) After confirming the screen message, select  (OK). If you select  (Undo), the monitor returns to the pre-adjusted status.

If the screen is not displayed correctly even after adjusting in step 1 above, perform the adjustments according to the procedures on the following pages. When the screen is displayed correctly, go to step 5 “To adjust color gradation automatically [AutoRange]”.

##### 2 Prepare the display pattern for the analog display adjustment.

Download the “Screen adjustment pattern files” from our site:

<http://www.eizo.com>

#### Attention

- Wait 30 minutes or more from monitor power on before starting adjustments.
- Auto adjust function does not work for the images under the resolution of 800 × 600 (SVGA).

#### Attention

- This function works correctly when an image is fully displayed over the Windows or Macintosh display area. It does not work properly when an image is displayed only on a part of the screen (command prompt window, for example) or when a black background (wallpaper, etc.) is in use.
- This function does not work correctly with some graphics boards.
- “Auto in Progress” appears on the screen during auto adjustment.

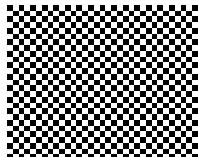
#### NOTE

- For details and instructions on opening the “Screen adjustment pattern files”, refer to the “Readme.txt” file.

### 3 Perform the AutoSize adjustment again with the analog screen adjustment pattern displayed.

- To adjust flickering, screen position, and screen size automatically [AutoSize]

(1) Display Pattern 1 of the screen adjustment pattern files in full screen on the monitor.



(2) Press .

The adjustment menu appears.

(3) Select .

(4) Select .

Flickering, screen position, and screen size are adjusted automatically.

(5) After confirming the screen message, select (OK).

If you select (Undo), the monitor returns to the pre-adjusted status.

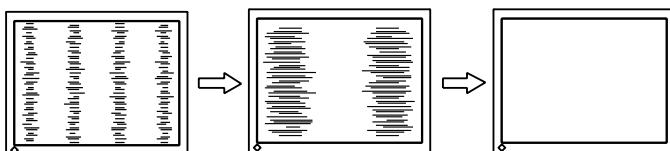
If the screen is not displayed correctly even after adjusting in step 3 above, perform the adjustments according to the procedures on the following pages. When the screen is displayed correctly, go to step 5 “To adjust color gradation automatically [AutoRange]”.

### 4 Perform advanced adjustments by using (Manual) in the adjustment menu.

Select (Manual) to adjust the clock, phase and position, in this order.

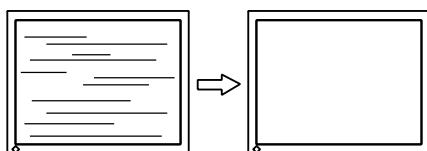
- To eliminate vertical bars [Clock]

(1) Adjust the clock with or of (Clock) to eliminate vertical bars.



- To remove flickering or blurring [Phase]

(1) Adjust the phase with or of (Phase) to remove flickering or blurring.



#### NOTE

- Press the control button slowly so as not to miss the adjustment point.
- When blurring, flickering or bars appear on the screen after adjustment, proceed to [Phase] to remove flickering or blurring.

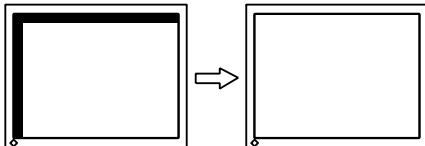
#### Attention

- Flickering or blurring may not be eliminated depending on your PC or graphics board.

- **To correct screen position [Position]**

- (1) Select  (Position).
- (2) Adjust the position with  (Left) /  (Right) /  (Down) /  (Up) to display the image properly in the display area of the monitor.
- (3) Select .

The adjustment is completed.



**NOTE**

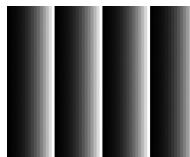
- Since the number of pixels and the pixel positions are fixed on the LCD monitor, only one position is provided to display images correctly. The position adjustment is made to shift an image to the correct position.
- When vertical bars appear on the screen after adjustment, go back to “To eliminate vertical bars [Clock]”. (Clock → Phase → Position)

## 5 Adjust the color gradation.

- **To adjust color gradation automatically [AutoRange]**

Every color gradation (0 to 255) can be displayed by adjusting the signal output level.

- (1) Display Pattern 2 in full screen on the monitor using the screen adjustment pattern files.



- (2) Press .

The adjustment menu appears.

- (3) Select .
- (4) Select .

Color gradation is adjusted automatically.

- (5) After confirming the screen message, select .

If you select , the monitor returns to the pre-adjusted status.

- (6) Close the Pattern 2.

## 2-3 Color Adjustment

### ● To select the display mode (CAL Switch mode)

CAL Switch allows you to select the best display mode easily according to the monitor's application.

CAL Switch mode

Mode	Purpose
 (DICOM-CL)	DICOM-CL mode. Available for setting tailored to X-ray film color (clear base).
 (TXT)	Text mode. Suitable for displaying texts for word processing or spreadsheets.
 (CUS)	Custom mode. Available for the color settings according to your preference.
 (CAL)	CAL mode. Displays the screen adjusted by calibration software.

(1) Press .

The adjustment menu appears.

(2) Press  again while the adjustment menu is displayed.

Each time you press the button, the mode is switched.

(3) Select .

The mode selected is set.

#### NOTE

- You can also select the CAL Switch mode by pressing  and select  (Color).
- “ScreenManager Pro for Medical” allows you to select the CAL Switch mode automatically according to the application used.  
(Refer to “Chapter 3 Auto CAL Switch” on the User’s Manual for “ScreenManager Pro for Medical”).

## ● To perform advanced adjustments

Independent setting and saving of color adjustment are available for each CAL Switch mode.

## ● Adjustment items in each mode

According to the CAL Switch mode selected, the adjustable function differs.

√: Adjustment available    -: Invalid for adjustment

Icon	Function	CAL Switch mode			
		DICOM-CL	TXT	CUS	CAL
	Brightness	-	√	√	-
	Contrast	-	√	√	-
	Gamma	-	√	√	-
	Temperature	-	√	√	-
	Gain	-	-	√	-
	Saturation	-	-	√	-
	Hue	-	-	√	-

\* If you adjust the calibration in this mode using the calibration kit exclusive for to this monitor (RadiCS LE as an accessory shown on [page 33](#)), only Brightness and Reset is adjustable.

## ● To adjust the brightness [Brightness]

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

Adjustable range: 0 to 100%

- (1) Press .
- The adjustment menu appears.
- (2) Select (Color).
- (3) Adjust the brightness with or of (Brightness).
- (4) Select .

The adjustment is completed.

### Attention

- Wait 30 minutes or more from monitor power on before starting the color adjustment.
- Perform (AutoRange) first when adjusting color for analog input signals.  
(Refer to “To adjust color gradation automatically” on [page 14](#)).
- The same image may be seen in different colors on multiple monitors due to their monitor-specific characteristics. Make fine color adjustment visually when matching colors on multiple monitors.

### NOTE

- The values shown in “%” or “K” are available only as reference.

### NOTE

- You can also adjust the brightness by pressing or without displaying the adjustment menu.

### ● To adjust the contrast [Contrast]

The luminance of the screen is adjusted by varying the video signal level.

Adjustable range: 0 to 100%

(1) Press .

The adjustment menu appears.

(2) Select  (Color).

(3) Adjust the contrast with  or  of  (Contrast).

(4) Select .

The adjustment is completed.

#### NOTE

- You can also adjust the contrast by pressing  while the adjustment menu is not displayed, and press  or  of  (Contrast).
- In the contrast of 50%, every color gradation is displayed.
- When adjusting the monitor, it is recommended to perform the brightness adjustment which may not lose the gradation characteristics, prior to the contrast adjustment. Perform the contrast adjustment in the following cases.
  - When you feel the image is dark even if the brightness is set to 100%.
  - When you feel the black level of the screen is bright (Set the brightness down and the contrast to higher than 50%).

### ● To adjust the gamma value [Gamma]

The gamma value can be adjusted. The luminance of the monitor varies depending on the input signal, however, the variation rate is not proportional to the input signal. To keep the balance between the input signal and the luminance of the monitor is called as “Gamma correction”.

Adjustable range: 1.8, 2.0, 2.2

(1) Press .

The adjustment menu appears.

(2) Select  (Color).

(3) Select  (Color Menu).

(4) Adjust the gamma value with  or  of  (Gamma).

(5) Select .

The adjustment is completed.

#### NOTE

- You cannot adjust the value if the icon is not displayed, depending on the CAL Switch mode selected. (See “Adjustment items in each mode” on page 16.)

### ● To adjust the color temperature [Temperature]

The color temperature can be adjusted. The color temperature is normally used to express the hue of “White” and/or “Black” by a numerical value. The value is expressed in degrees “K” (Kelvin).

In the same way as the flame temperature, the image on the monitor is displayed reddish if the color temperature is low and is bluish if the color temperature is high. The gain preset values are set for each color temperature setting value.

6500K	The white color image is displayed in warm white like paper white. The temperature is suitable to display photographs or video images.
9300K	The white color image is displayed slightly bluish white.

Adjustable range: Native, 6500K-15000K (specified by every 500K unit, including 9300K), User (at gain adjustment)

(1) Press .

The adjustment menu appears.

(2) Select  (Color).

(3) Select  (Color Menu).

(4) Adjust the color temperature with  or  of  (Temperature).

(5) Select .

The adjustment is completed.

#### NOTE

- You cannot adjust the value if the icon is not displayed, depending on the CAL Switch mode selected. (See “Adjustment items in each mode” on [page 16](#).)
- [Gain] allows you to perform more advanced adjustment (See “To adjust the gain value” on [page 18](#)).
- If you set to [Native], the image is displayed in the preset color of the monitor (Gain: 100% for each RGB).
- When changing the gain value, the color temperature adjusting range is changed to “User”.

### ● To adjust the gain value [Gain]

Each luminance of red/green/blue composing the color is called “Gain”. The gain adjustment may change the color tone of the “White” (when the max input signal for each color is obtained)

Adjustable range: 0 to 100%

(1) Press .

The adjustment menu appears.

(2) Select  (Color).

(3) Select  (Color Menu).

(4) Select  (Gain).

(5) Adjust the respective value of  (Red)/  (Green)/  (Blue) with  or .

(6) Select .

The adjustment is completed.

#### NOTE

- You cannot adjust the value if the icon is not displayed, depending on the CAL Switch mode selected. (See “Adjustment items in each mode” on [page 16](#).)
- The gain value may change depending on the value of the color temperature.
- When changing the gain value, the color temperature adjusting range is changed to “User”.

### ● To adjust the color saturation [Saturation]

This function allows you to adjust the saturation of the color on the monitor.

Adjustable range: -100 to 100

(1) Press .

The adjustment menu appears.

(2) Select  (Color).

(3) Select  (Color Menu).

(4) Select  (Advanced).

(5) Adjust the saturation with  or  of  (Saturation).

(6) Select .

The adjustment is completed.

#### Attention

- This function does not enable to display every color gradation.

#### NOTE

- You cannot adjust the value if the icon is not displayed, depending on the CAL Switch mode selected. (See “Adjustment items in each mode” on [page 16](#).)
- Setting the minimum (-100) turns the image to a monochrome screen.

## ● To adjust the hue [Hue]

This function allows you to adjust the hue. If you set the hue to a high value, the image turns greenish. If low, the image turns purplish.

Adjustable range: -100 to 100

(1) Press .

The adjustment menu appears.

(2) Select  (Color).

(3) Select  (Color Menu).

(4) Select  (Advanced).

(5) Adjust the hue with  or  of  (Hue).

(6) Select .

The adjustment is completed.

### Attention

- This function does not enable to display every color gradation.

### NOTE

- You cannot adjust the value if the icon is not displayed, depending on the CAL Switch mode selected. (See “Adjustment items in each mode” on [page 16](#).)

## 2-4 Adjusting Sharpness [Sharpness]

This function allows you to emphasize the outline of the image by emphasizing the color difference between the pixels composing the image and to improve a sense of quality and materiality. Contrarily, this function allows you to show the image smoothly by blurring the outline of the image.

Adjustable range: -3 to 3

- (1) Press . The adjustment menu appears.
- (2) Select  (Screen).
- (3) Adjust the sharpness with  or  of  (Sharpness).
- (4) Select . The adjustment is completed.

## 2-5 Setting Enable/Disable for the automatic brightness adjustment function [Auto EcoView]

The sensor on the front side of the monitor detects the environmental brightness to adjust the screen brightness automatically and comfortably by using the Auto EcoView function.

### Attention

- This function is not available in the DICOM-CL and CAL modes.

- (1) Press . The adjustment menu appears.
- (2) Select  (PowerSave).
- (3) The Enable/Disable setting is toggled by selecting  (Auto EcoView).

	Enable
	Disable

- (4) Select . The mode selected is set.

## 2-6 Turning off the monitor automatically [Off Timer]

This function allows the monitor to automatically turn off after a specified time has passed. This function serves to protect the monitor from after-images caused when the same image is left displayed for a long time. Use this function when an image is displayed throughout the day.

Adjustable range: Off, 1 to 23h

- (1) Press . The adjustment menu appears.
- (2) Select  (PowerSave).
- (3) Set a monitor OFF time with  or  of  (Off Timer). Select "Off" to set Off timer setting to "Off".
- (4) Select . The Off timer setting is completed.
- (5) "Power will shut off in a minute" appears on the display if it becomes one minute before the setting time.  
If you select  (Extend), the off timer function works 90 minutes later.

## 2-7 Locking Buttons [Key Lock] [Menu Lock]

This function allows you to lock the operation buttons to prevent changing the adjusted/set status.

Key Lock : Locks the buttons other than the Power button.

Menu Lock : Locks the buttons other than the Power, Input signal selection and Mode buttons.

- (1) Press  to turn off the monitor.
- (2) Press  holding  down to turn on the monitor.  
The adjustment menu appears.
- (3) Each time you press , the mode is switched.

	Unlock
	Menu Lock
	Key Lock

- (4) Select .

The mode selected is set.

### Attention

- The key lock function may activate when calibration is performed with the calibration kit.

## 2-8 Displaying Monitor Information [Info1] [Info2]

This function allows you to display the input signal status, current resolution and model name.

Info1 : Displays the input signal status (analog/digital), resolution, H/V frequency

Info2 : Displays the model name, usage time and serial number.

- (1) Press .
- The adjustment menu appears.
- (2) Select .
- (3) Select  (Info1) or  (Info2).
- (4) Select .
- The menu is closed.

## 2-9 Setting Power Indicator ON/OFF [Power LED]

This function allows you to set the power indicator (blue) ON/OFF in the monitor ON condition.

- (1) Press . The adjustment menu appears.

- (2) Select  (PowerSave).

- (3) The On/Off setting is toggled by selecting  (Power LED).

	On
	Off

- (4) Select . The mode selected is set.

## 2-10 Setting Language [Language]

This function allows you to select a language for the adjustment menu or displaying message.

### Selectable languages

English/German/French/Spanish/Italian/Swedish/Simplified Chinese/Traditional Chinese/Japanese

- (1) Press . The adjustment menu appears.

- (2) Select  (Settings).

- (3) The language setting is toggled by selecting  (Language).

	English
	German
	French
	Spanish
	Italian
	Swedish
	Simplified Chinese
	Traditional Chinese
	Japanese

- (4) Select . The language selected is set.

## 2-11 Displaying EIZO logo

The EIZO logo appears on the display when turning on the monitor. This function allows you to display, or not, the EIZO logo.

- (1) Press  to turn off the monitor.

- (2) Press  holding  down to turn on the monitor.

The EIZO logo display setting is toggled by performing the operation in step 2.

### NOTE

- The logo appears with the default setting.

## 2-12 Resuming the Default Setting [Reset]

There are two types of Reset. One is to reset the color adjustment only to the default settings, and the other is to reset all the settings to the default settings.

### Attention

- After resetting, you cannot undo the operation.

### ● To reset color adjustment values

Only the adjustment values in the current CAL Switch mode will revert to the default settings (factory settings).

- (1) Press . The adjustment menu appears.
- (2) Select  (Tool).
- (3) Select  (Reset).

If you will not perform the reset operation, select .

- (4) Select  (Color (DICOM\*)). The color adjustment values revert to the default settings.

\* Current CAL Switch mode is displayed.

### ● To reset all adjustments to the factory default settings

Reset all adjustments to the factory default settings.

- (1) Press . The adjustment menu appears.
- (2) Select  (Tool).
- (3) Select  (Reset).

If you will not perform the reset operation, select .

- (4) Select  (All). All setting values revert to the default settings.

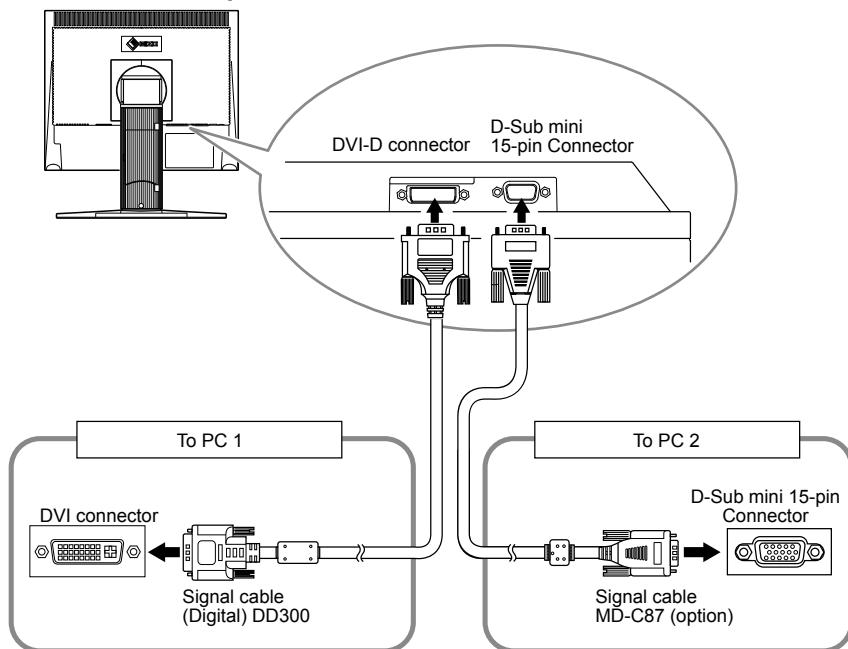
# Chapter 3 Connecting Cables

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## 3-1 Connecting Two PCs to the Monitor

Two PCs can be connected to the monitor through the DVI-D and the D-Sub mini 15 pin connector on the back of the monitor.

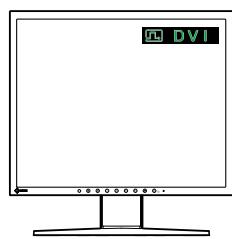
### Connection examples



### ● To switch the input signal

The input signal switches each time **(S)** is pressed.

When the signal is switched, the active input port name appears at the top right corner of the screen.



## ● Setting auto-selection of the input signal [Input Signal]

Enable : When either PC is turned off or enters the power-saving mode, the monitor automatically displays signals of another PC.

Disable : The monitor does not detect the PC's signals automatically. Switch an input signal with **S**.

(1) Press .

The adjustment menu appears.

(2) Select .

(3) The Enable/Disable setting is toggled by selecting  (Input Signal).

	Enable
	Disable

(4) Select .

The mode selected is set.

### NOTE

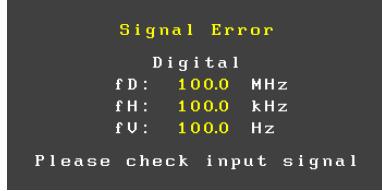
- When “Enable” is selected for [Input Signal], the monitor’s power-saving function works only when the two PCs are in the power-saving mode.

# Chapter 4 Troubleshooting

• •

If a problem still remains after applying the suggested remedies, contact your local dealer.

- No-picture problems → See No.1 - No.2.
- Imaging problems (digital input) → See No.3 - No.9.
- Imaging problems (analog input) → See No.3 - No.12.
- Other problems → See No.13 - No.14.
- USB problems → See No.15.

Problems	Possible cause and remedy
<b>1. No picture</b> <ul style="list-style-type: none"><li>• Power indicator does not light.</li><li>• Power indicator is lighting blue.</li><li>• Power indicator is lighting orange.</li></ul>	<ul style="list-style-type: none"><li>• Check whether the power cord is connected correctly. If the problem persists, turn off the monitor, and then turn it on again a few minutes later.</li><li>• Press .</li><li>• Set each adjusting value in [Brightness], [Contrast] and [Gain] to higher level. (see <a href="#">page 16, 17, 18</a>)</li><li>• Switch the input signal with .</li><li>• Operate the mouse or keyboard.</li><li>• Check whether the PC is turned on.</li></ul>
<b>2. The message below appears.</b> <ul style="list-style-type: none"><li>• This message appears when no signal is input.  No Signal Digital  Please check input signal</li><li>• The message shows that the input signal is out of the specified frequency range. (Such signal frequency is displayed in yellow.) Example:  Signal Error Digital fD : 100.0 MHz fH : 100.0 kHz fV : 100.0 Hz  Please check input signal</li></ul>	<p>This message appears when the signal is not input correctly even when the monitor functions properly.</p> <ul style="list-style-type: none"><li>• The message shown left may appear, because some PCs do not output the signal soon after power-on.</li><li>• Check whether the PC is turned on.</li><li>• Check whether the signal cable is connected properly.</li><li>• Switch the input signal with .</li></ul>
<b>3. The screen is too bright or too dark.</b>	<ul style="list-style-type: none"><li>• Adjust using [Brightness] or [Contrast]. (The LCD monitor backlight has a fixed life span. When the screen becomes dark or begins to flicker, contact your local dealer.)</li></ul>
<b>4. Characters are blurred.</b>	<ul style="list-style-type: none"><li>• Check whether the signal setting of your PC matches the resolution and the vertical frequency settings for the monitor. (See "Compatible Resolutions/Frequencies" on the cover back of the Setup Manual.)</li><li>• Adjust using [Sharpness]. (see <a href="#">page 20</a>)</li></ul>
<b>5. Afterimages appear.</b>	<ul style="list-style-type: none"><li>• Use a screen saver or off timer function for a long-time image display.</li><li>• Afterimages are particular to LCD monitors. Avoid displaying the same image for a long time.</li></ul>
<b>6. Green/red/blue/white dots or defective dots remain on the screen.</b>	<ul style="list-style-type: none"><li>• This is due to LCD panel characteristics and is not a failure.</li></ul>

Problems	Possible cause and remedy
<b>7. Interference patterns or pressure marks remain on the screen.</b>	<ul style="list-style-type: none"> <li>Leave the monitor with a white or black screen. The symptom may disappear.</li> </ul>
<b>8. The outline of the letters are colored.</b>	<ul style="list-style-type: none"> <li>If the [Sharpness] setting is set to a high level, the characters displayed on the monitor may be colored.</li> </ul>
<b>9. Noise appears on the screen.</b>	<ul style="list-style-type: none"> <li>When entering the signals of HDCP system, the normal images may not be displayed immediately.</li> </ul>
<b>10. Display position is incorrect.</b> 	<ul style="list-style-type: none"> <li>Adjust image position so that it is displayed properly within the display area using [Position]. (See <a href="#">page 14</a>)</li> <li>If the problem persists, use the graphics board's utility if available to change the display position.</li> </ul>
<b>11. Vertical bars appear on the screen or a part of the image is flickering.</b> 	<ul style="list-style-type: none"> <li>Adjust using [Clock]. (see <a href="#">page 13</a>)</li> </ul>
<b>12. Whole screen is flickering or blurring.</b> 	<ul style="list-style-type: none"> <li>Adjust using [Phase]. (see <a href="#">page 13</a>)</li> </ul>
<b>13. The adjustment menu does not appear.</b>	<ul style="list-style-type: none"> <li>Check whether the operation lock function works. (see <a href="#">page 21</a>)</li> </ul>
<b>14. The auto adjust function does not work correctly.</b>	<ul style="list-style-type: none"> <li>This function does not work when digital signal is input.</li> <li>This function is intended for use on the Macintosh and on AT-compatible PC running Windows. It may not work properly in either of the following cases. It does not work properly when an image is displayed only on a part of the screen (command prompt window, for example) or when a black background (wallpaper, etc.) is in use.</li> <li>This function does not work correctly with some graphics boards.</li> </ul>
<b>15. The monitor connected with the USB cable is not detected.</b>	<ul style="list-style-type: none"> <li>Check whether the USB cable is connected correctly.</li> <li>Please perform the following to check the status. - Reboot the PC.</li> <li>Check whether the PC and OS are USB compliant. (For USB compliance of the respective devices, consult their manufacturers.)</li> <li>Check the PC's BIOS setting for USB when using Windows. (Refer to the manual of the PC for details.)</li> </ul>

# Chapter 5 Reference

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## 5-1 Attaching an Arm

The stand can be removed and replaced with an arm (or another stand) to be attached to the monitor. Use an arm or stand of EIZO option.

### [Attaching]

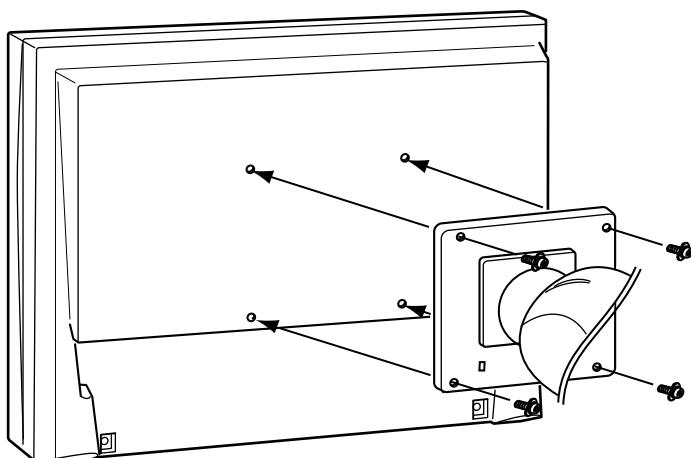
#### 1 Lay the LCD monitor on a soft cloth spread over on a stable surface with the panel surface facing down.

#### 2 Remove the stand. (Prepare a screwdriver.)

Unscrew the four screws securing the unit and the stand with the screwdriver.

#### 3 Attach the monitor to the arm or stand.

Secure the monitor to the arm or stand using the screws specified in the user's manual of the arm or stand.



### Attention

- When attaching an arm or stand, follow the instructions of their user's manual.
- When using another manufacturer's arm or stand, confirm the following in advance and select one conforming to the VESA standard. Use the M4 × 12 mm screws supplied with this monitor.
  - Clearance between the screw holes: 100 mm × 100 mm
  - Thickness of plate: 2.6 mm
  - Strong enough to support weight of the monitor unit (except the stand) and attachments such as cables.
- When using an arm or stand, attach it to meet the following tilt angles of the monitor.
  - Up 45 degrees, down 45 degrees (horizontal display, and vertical display rotated 90 degrees clockwise)
- Connect the cables after attaching an arm or a stand.
- Since the monitor and arm are so heavy, dropping them may result in injury or equipment damage.

## 5-2 Power Saving Mode

### ■ Analog input

This monitor complies with the VESA DPM standard.

#### [Power Saving System]

PC		Monitor	Power Indicator
Operating		Operating	Blue
Power saving	STAND-BY SUSPENDED OFF	Power saving	Orange

### Attention

- Unplugging the power cord completely shuts off power supply to the monitor.

#### [Resumption Procedure]

- Operate the mouse or keyboard to resume the normal screen.

### ■ Digital input

This monitor complies with the DVI DMPM standard.

#### [Power Saving System]

The monitor enters the power saving mode in five seconds in connection with the PC setting.

PC	Monitor	Power Indicator
Operating	Operating	Blue
Power saving	Power saving	Orange

#### [Resumption Procedure]

- Operate the mouse or keyboard to resume the normal screen.

## 5-3 Specifications

LCD Panel	Size	19-inch (480 mm) TFT color LCD with
	Surface treatment	anti-glare
	Surface hardness	3H
	Viewing angle	Horizontal 178°, Vertical 178° (CR:10 or more)
	Dot Pitch	0.294mm
	Response Time	Approx. 20ms
Horizontal Scan Frequency	Analog	24.8-80kHz
	Digital	31-64kHz
Vertical Scan Frequency	Analog	50-75Hz
	Digital	59-61Hz (VGA TEXT: 69-71Hz)
Resolution		1280 dots × 1024 lines
Max. Dot Clock	Analog	135MHz
	Digital	108MHz
Max. Display Color		Approx. 16.77 million colors
Display Area (H × V)		376.3mm × 301.0mm
Power Supply		100-120 VAC ±10%, 50/60Hz 0.7-0.6A 200-240 VAC ±10%, 50/60Hz 0.4-0.35A
Power Consumption	Screen Display On	43W or less
	Power saving mode	0.8W or less (for single signal input without USB)
	Power button Off	0.7W or less (Without USB)
Input Signal Connector		DVI-D connector (Applicable to HDCP), D-Sub mini 15-pin
Analog Input Signal (Sync)		Separate, TTL, positive/ negative
Analog Input Signal (Video)		Analog, Positive (0.7Vp-p/75Ω)
Digital Signal Transmission System		TMDS (Single Link)
Video Signal Memory		Analog signal: 26 (preset: 21)
Plug & Play		VESA DDC 2B / EDID structure 1.3
Dimensions (Width) × (Height) × (Depth)	Main unit	405 mm (15.9 inch) × 406.5 - 506.5 mm (16.0 - 19.9 inch) × 205 mm (8.1 inch)
	Main unit (without stand)	405 mm (15.9 inch) × 334 mm (13.1 inch) × 61.5 mm (2.4 inch)
Mass	Main unit	7.2 kg (15.9 lbs.)
	Main unit (without stand)	5.2 kg (11.5 lbs.)
Movable range		Tilt: 30° Up, 0° Down Swivel: 35° Right, 35° Left Adjustable height: 100 mm (3.9 inch) Rotation: 90° (clockwise)
Environmental Conditions	Temperature	Operating : 0 °C - 35 °C (32 °F - 95 °F) Transportation/Storage : -20 °C - 60 °C (-4 °F - 140 °F)
	Humidity	Operating: 20% - 80% (no condensation) Transportation/Storage: 10% - 80% (no condensation)
	Pressure	Operating: 700 to 1060 hPa. Transportation/Storage: 200 to 1060 hPa.

USB	Standard	USB Specification Revision 2.0
	Port	Upstream port × 1
Classification of Equipment		Type of protection against electric shock : Class I EMC class : EN60601-1-2:2007 Group 1 Class B Classification of medical device (MDD 93/42/EEC) : Class I Mode of operation : Continuous IP Class : IPX0

### Main default settings (factory settings)

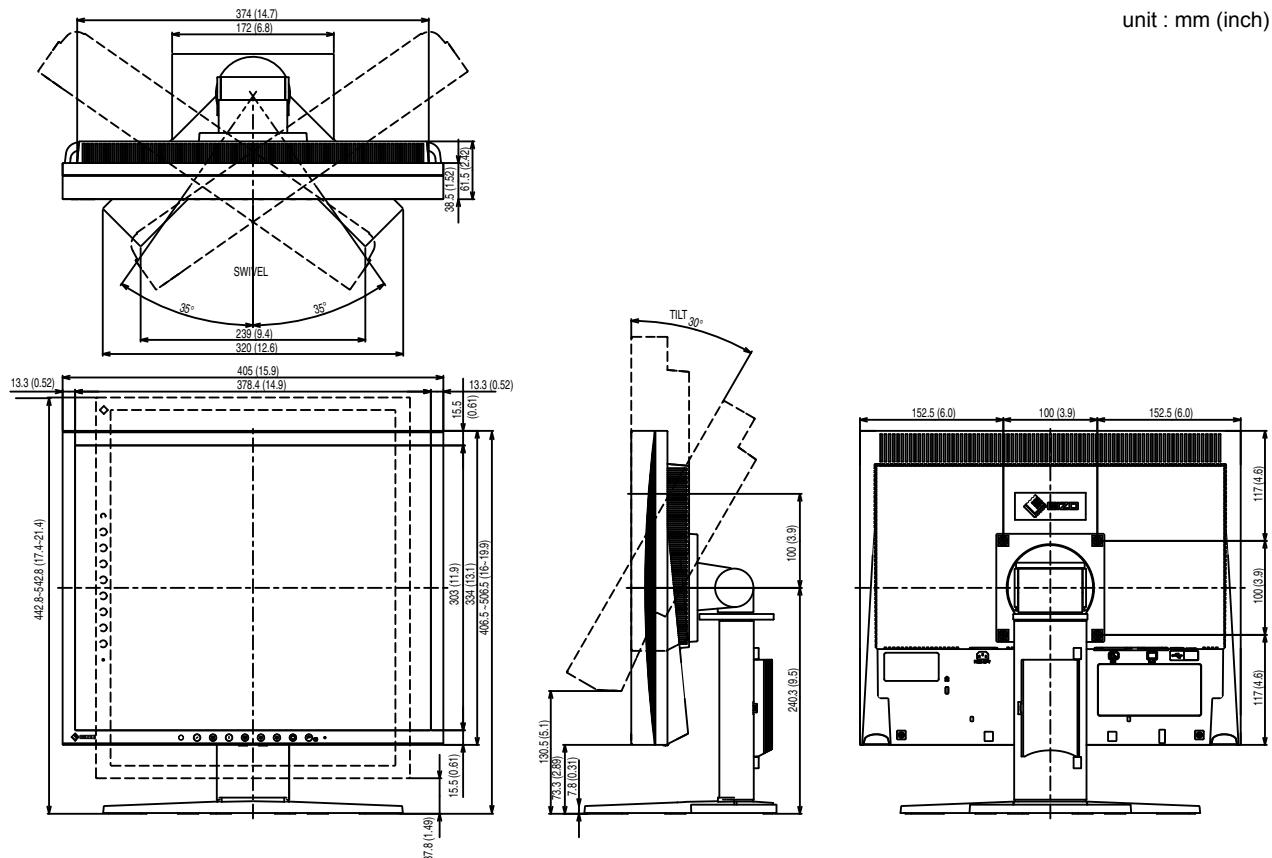
**CAL Switch Mode** : The default display mode setting is DICOM mode.

	Brightness	Color Temperature	Gamma
Custom	approx. 300 cd/m <sup>2</sup>	Native	2.2
Text	approx. 100 cd/m <sup>2</sup>	7500K	2.2
DICOM-CL	170 cd/m <sup>2</sup>	7500K	DICOM setting
CAL	170 cd/m <sup>2</sup>	7500K	DICOM setting

### others

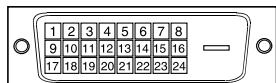
Auto EcoView	<input checked="" type="checkbox"/> Disable
Off Timer	<input checked="" type="checkbox"/> Disable
Input Signal	<input checked="" type="checkbox"/> Disable
Language	<input checked="" type="checkbox"/> English
Sharpness	0

### Outside Dimensions



## Connector Pin Assignment

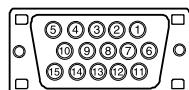
- DVI-D connector



Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	T.M.D.S. Data 2-	9	T.M.D.S. Data1-	17	T.M.D.S. Data0-
2	T.M.D.S. Data 2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2/4 Shield	11	T.M.D.S. Data1/3 Shield	19	T.M.D.S. Data0/5 Shield
4	NC*	12	NC*	20	NC*
5	NC*	13	NC*	21	NC*
6	DDC Clock (SCL)	14	+5V Power	22	T.M.D.S. Clock shield
7	DDC Data (SDA)	15	Ground (return for +5V, Hsync, and Vsync)	23	T.M.D.S. Clock+
8	NC*	16	Hot Plug Detect	24	T.M.D.S. Clock-

(NC\*: No Connection)

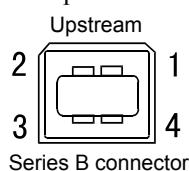
- D-Sub mini 15-pin connector



Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	Red video	6	Red video ground	11	Ground
2	Green video	7	Green video ground	12	Data (SDA)
3	Blue video	8	Blue video ground	13	H. Sync
4	Ground	9	NC*	14	V. Sync
5	NC*	10	Ground	15	Clock (SCL)

(NC\*: No Connection)

- USB port



Series B connector

Contact No.	Signal	Remarks
1	VCC	Cable power
2	- Data	Serial data
3	+ Data	Serial data
4	Ground	Cable ground

## Option List

Calibration Kit	EIZO "RadiCS UX1" Ver.3.4.1 or later
Network QC Management Software	EIZO "RadiNET Pro" Ver.3.4.1 or later
Cleaning Kit	EIZO "ScreenCleaner"

For the latest information about the accessories and information about the latest compatible graphics board, refer to our web site.

<http://www.eizo.com>

## 5-4 Glossary

### Clock

The analog input monitor needs to reproduce a clock of the same frequency as the dot clock of the graphics system in use, when the analog input signal is converted to a digital signal for image display.

This is called clock adjustment. If the clock pulse is not set correctly, some vertical bars appear on the screen.

### DICOM (Digital Imaging and Communication in Medicine)

DICOM is a standard for digital imaging and communication for medical use developed by American College of Radiology and National Electric Manufacturers Association.

### DVI (Digital Visual Interface)

DVI is a digital interface standard. DVI allows direct transmission of the PC's digital data without loss.

This adopts the TMDS transmission system and DVI connectors. There are two types of DVI connectors. One is a DVI-D connector for digital signal input only. The other is a DVI-I connector for both digital and analog signal inputs.

### DVI DMPM (DVI Digital Monitor Power Management)

DVI DMPM is a digital interface power-saving function. The "Monitor ON (operating mode)" and "Active Off (power-saving mode)" are indispensable for DVI DMPM as the monitor's power mode.

### Gain

This is used to adjust each color parameter for red, green and blue. An LCD monitor displays the color by the light passing through the panel color filter. Red, green and blue are the three primary colors. All the colors on the screen are displayed by combining these three colors. The color tone can be changed by adjusting the light intensity (volume) passing through each color's filter.

### Gamma

Generally, the monitor brightness varies nonlinearly with the input signal level, which is called "Gamma Characteristic". A small gamma value produces a low-contrast image, while a large gamma value produces a high-contrast image.

### HDCP (High-bandwidth Digital Contents Protection)

Digital signal coding system developed to copy-protect the digital contents, such as video, music, etc. This helps to transmit the digital contents safely by coding the digital contents sent via DVI terminal on the output side and decoding them on the input side.

Any digital contents cannot be reproduced if both of the equipments on the output and input sides are not applicable to HDCP system.

### Phase

Phase means the sampling timing to convert the analog input signal to a digital signal. Phase adjustment is made to adjust the timing. It is recommended that phase adjustment be made after the clock is adjusted correctly.

### Range Adjustment

Range adjustment controls the signal output levels to display every color gradation. It is recommended that range adjustment be made before color adjustment.

### Resolution

The LCD panel consists of numerous pixels of specified size, which are illuminated to form images. This monitor consists of 1280 horizontal pixels and 1024 vertical pixels. At a resolution of 1280 x 1024, all pixels are illuminated as a full screen (1:1).

## **Temperature**

Color temperature is a method to measure the white color tone, generally indicated in degrees Kelvin. The screen becomes reddish at a low temperature, and bluish at a high temperature, like the flame temperature.

5000K: Slightly reddish white

6500K: Warm white like paper white

9300K: Slightly bluish white

## **TMDS (Transition Minimized Differential Signaling)**

A signal transmission system for digital interface.

## **VESA DPM (Video Electronics Standards Association - Display Power Management)**

VESA provides the standardization of signals from PC (graphics board) for power saving of PC monitors. DPM defines the signal status between PC and monitor.

## 5-5 Preset Timing

The following table shows factory preset video timing (for analog signal only).

Mode	Dot clock		<b>Frequency</b>	<b>Polarity</b>
			Horizontal: kHz	
VGA 640×480@60Hz	25.2 MHz	Horizontal	31.47	Negative
		Vertical	59.94	Negative
VGA 720×400@70Hz	28.3 MHz	Horizontal	31.47	Negative
		Vertical	70.09	Positive
VESA 640×480@72Hz	31.5 MHz	Horizontal	37.86	Negative
		Vertical	72.81	Negative
VESA 640×480@75Hz	31.5 MHz	Horizontal	37.50	Negative
		Vertical	75.00	Negative
VESA 800×600@56Hz	36.0 MHz	Horizontal	35.16	Positive
		Vertical	56.25	Positive
VESA 800×600@60Hz	40.0 MHz	Horizontal	37.88	Positive
		Vertical	60.32	Positive
VESA 800×600@72Hz	50.0 MHz	Horizontal	48.08	Positive
		Vertical	72.19	Positive
VESA 800×600@75Hz	49.5 MHz	Horizontal	46.88	Positive
		Vertical	75.00	Positive
VESA 1024×768@60Hz	65.0 MHz	Horizontal	48.36	Negative
		Vertical	60.00	Negative
VESA 1024×768@70Hz	75.0 MHz	Horizontal	56.48	Negative
		Vertical	70.07	Negative
VESA 1024×768@75Hz	78.8 MHz	Horizontal	60.02	Positive
		Vertical	75.03	Positive
VESA 1152×864@75Hz	108.0 MHz	Horizontal	67.50	Positive
		Vertical	75.00	Positive
VESA 1280×960@60Hz	108.0 MHz	Horizontal	60.00	Positive
		Vertical	60.00	Positive
VESA 1280×1024@60Hz	108.0 MHz	Horizontal	63.98	Positive
		Vertical	60.02	Positive
VESA 1280×1024@75Hz	135.0 MHz	Horizontal	79.98	Positive
		Vertical	75.03	Positive
PC-9801 640 × 400@56Hz	21.1 MHz	Horizontal	24.83	Negative
		Vertical	56.42	Negative
PC-9821 AP2 640 × 400 @70Hz	25.2 MHz	Horizontal	31.48	Negative
		Vertical	70.10	Negative

### Attention

- Display position may be deviated depending on the PC connected, which may require screen adjustment using Adjustment menu.
- If a signal other than those listed in the table is input, adjust the screen using the Adjustment menu. However, screen display may still be incorrect even after the adjustment.
- When interlace signals are used, the screen cannot be displayed correctly even after screen adjustment using the Adjustment menu.

For U.S.A. , Canada, etc. (rated 100-120 Vac) Only

## FCC Declaration of Conformity

We, the Responsible Party

EIZO Inc.

5710 Warland Drive, Cypress, CA 90630

Phone: (562) 431-5011

declare that the product

Trade name: EIZO

Model: RadiForce MX191

is in conformity with Part 15 of the FCC Rules. Operation of this product 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.

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Note

Use the attached specified cable below or EIZO signal cable with this monitor so as to keep interference within the limits of a Class B digital device.

- AC Cord
- Shielded Signal Cable (Enclosed)

## Canadian Notice

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

# EMC Information

Essential performance of RadiForce series is to display images and operate functions normally.



## CAUTION

The RadiForce series requires special precautions regarding EMC and need to be installed, put into service and used according to the following information.

**Do not use any cables other than the cables that provided or specified by us.**

**Using other cables may cause the increase of emission or decrease of immunity.**

**Do not put any portable and mobile RF communications equipment close to the RadiForce series. Doing so may affect the RadiForce series.**

The RadiForce series should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the equipment or system should be observed to verify normal operation in the configuration in which it will be used.

**Anyone who connects additional equipment to the signal input part or signal output parts, configuring a medical system, is responsible that the system complies with the requirements of IEC/EN60601-1-2.**

### Guidance and manufacturer's declaration - electromagnetic emissions

The RadiForce series is intended for use in the electromagnetic environment specified below.

The customer or the user of the RadiForce series should assure that it is used in such an environment.

Emission test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR11/EN55011	Group 1	The RadiForce series uses RF energy only for its internal function. Therefore, its RF emission are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR11/EN55011	Class B	The RadiForce series is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC/EN61000-3-2	Class D	
Voltage fluctuations / flicker emissions IEC/EN61000-3-3	Complies	

### Guidance and manufacturer's declaration - electromagnetic immunity

The RadiForce series is intended for use in the electromagnetic environment specified below.

The customer or the user of the RadiForce series should assure that it is used in such an environment.

Immunity test	IEC/EN60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC/EN61000-4-2	±6kV contact ±8kV air	±6kV contact ±8kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient / burst IEC/EN61000-4-4	±2kV for power supply lines ±1kV for input/output lines	±2kV for power supply lines ±1kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC/EN61000-4-5	±1kV line(s) to line(s) ±2kV line(s) to earth	±1kV line(s) to line(s) ±2kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC/EN61000-4-11	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5sec	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the RadiForce series requires continued operation during power mains interruptions, it is recommended that the RadiForce series be powered from an uninterruptible power supply or a battery.
Power frequency (50/60Hz) magnetic field IEC/EN61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE UT is the a.c. mains voltage prior to application of the test level.

### Guidance and manufacturer's declaration - electromagnetic immunity

The RadiForce series is intended for use in the electromagnetic environment specified below. The customer or the user of the RadiForce series should assure that it is used in such an environment.

Immunity test	IEC/EN60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC/EN61000-4-6	3Vrms 150kHz to 80MHz	3Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the RadiForce series, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.  Recommended Separation distance  $d = 1.2 \sqrt{P}$  $d = 1.2 \sqrt{P}, 80MHz to 800MHz$ $d = 2.3 \sqrt{P}, 800MHz to 2.5GHz$  Where "P" is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and "d" is the recommended separation distance in meters (m).  Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey <sup>a</sup> , should be less than the compliance level in each frequency range <sup>b</sup> .  Interference may occur in the vicinity of equipment marked with the following symbol. 
Radiated RF IEC/EN61000-4-3	3V/m 80MHz to 2.5GHz	3V/m	

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

<sup>a</sup> Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the RadiForce series is used exceeds the applicable RF compliance level above, the RadiForce series should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the RadiForce series.

<sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

### **Recommended separation distances between portable and mobile RF communications equipment and the RadiForce Series**

The RadiForce series is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the RadiForce series can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the RadiForce series as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150kHz to 80MHz $d = 1.2 \sqrt{P}$	80MHz to 800MHz $d = 1.2 \sqrt{P}$	800MHz to 2.5GHz $d = 2.3 \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance "d" in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where "P" is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

**NOTE 1** At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

**NOTE 2** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

#### **Cable length**

Signal Cable (DD300) :	3.0m
Signal Cable (MD-C87) :	1.8m
USB Cable (UU300) :	3.0m

## LIMITED WARRANTY

EIZO Corporation (hereinafter referred to as "**EIZO**") and distributors authorized by EIZO (hereinafter referred to as the "**Distributors**") warrant, subject to and in accordance with the terms of this limited warranty (hereinafter referred to as the "**Warranty**"), to the original purchaser (hereinafter referred to as the "**Original Purchaser**") who purchased the product specified in this document (hereinafter referred to as the "**Product**") from EIZO or Distributors, that EIZO and Distributors shall, at their sole discretion, either repair or replace the Product at no charge if the Original Purchaser becomes aware within the Warranty Period (defined below) that the Product malfunctions or is damaged in the course of normal use of the Product in accordance with the description in the instruction manual attached to the Product (hereinafter referred to as the "**User's Manual**").

The period of this Warranty is limited to (i) five (5) years from the date of purchase of the Product; or, limited to the expiration of (ii) 30,000 hours of its use of the Product (hereinafter referred to as the "**Warranty Period**"); provided, however, that the Warranty Period for the LCD panel of the Product is limited to three (3) years from the date of purchase of the Product. 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 of the Product upon expiration of seven (7) years after the production of such parts is discontinued. In repairing the monitor, EIZO and Distributors will use renewal parts which comply with our QC standards.

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:

- (a) Any defect of the Product caused by freight damage, modification, alteration, abuse, misuse, accident, incorrect installation, disaster, faulty maintenance and/or improper repair by third party other than EIZO and Distributors;
- (b) Any incompatibility of the Product due to possible technical innovations and/or regulations;
- (c) 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.);
- (d) Any defect of the Product caused by external equipment;
- (e) Any defect of the Product on which the original serial number has been altered or removed;
- (f) Any normal deterioration of the product, particularly that of consumables, accessories, and/or attachments (e.g. buttons, rotating parts, cables, User's Manual, etc.); and
- (g) Any deformation, discoloration, and/or warp of the exterior of the product including that of the surface of the LCD panel.

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.

**EIZO OR DISTRIBUTORS ARE NOT RESPONSIBLE FOR ANY DAMAGE TO, OR LOSS OF, DATA OR OTHER INFORMATION STORED IN ANY MEDIA OR ANY PART OF ANY PRODUCT RETURNED TO EIZO OR DISTRIBUTORS FOR REPAIR.**

**EIZO AND DISTRIBUTORS MAKE NO FURTHER WARRANTIES, EXPRESSED OR IMPLIED, WITH RESPECT TO THE PRODUCT AND ITS QUALITY, PERFORMANCE, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE. IN NO EVENT SHALL EIZO OR DISTRIBUTORS BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGE WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFIT, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT OR IN ANY CONNECTION WITH THE PRODUCT, WHETHER BASED ON CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, EVEN IF EIZO OR DISTRIBUTORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THIS EXCLUSION ALSO INCLUDES ANY LIABILITY WHICH MAY ARISE OUT OF THIRD PARTY CLAIMS AGAINST THE ORIGINAL PURCHASER. THE ESSENCE OF THIS PROVISION IS TO LIMIT THE POTENTIAL LIABILITY OF EIZO AND DISTRIBUTORS ARISING OUT OF THIS LIMITED WARRANTY AND/OR SALES.**



## GARANTIE LIMITÉE

EIZO Corporation (ci-après dénommé « **EIZO** ») et les distributeurs autorisés par EIZO (ci-après dénommés « **Distributeurs** »), sous réserve et conformément aux termes de cette garantie limitée (ci-après dénommée « **Garantie** »), garantissent à l'acheteur initial (ci-après dénommé « **Acheteur initial** ») du produit spécifié dans la présente (ci-après dénommé « **Produit** ») acheté auprès d'EIZO ou de Distributeurs agréés EIZO, que EIZO et ses Distributeurs auront pour option de réparer ou remplacer gratuitement le Produit si l'Acheteur initial constate, pendant la Période de garantie (définie ci-dessous), qu'il y a un dysfonctionnement ou que le Produit a subi un dommage dans le cadre d'une utilisation normale du Produit conformément à la description du mode d'emploi qui accompagne le Produit (ci-après dénommé « **Manuel d'utilisation** »).

La période de cette Garantie est limitée à (i) cinq (5) ans à partir de la date d'achat du Produit ou à (ii) 30 000 heures d'utilisation du Produit (ci-après dénommée « **Période de Garantie** »), sous réserve, toutefois, que la Période de Garantie du panneau LCD du Produit est limitée à trois (3) ans à partir de la date d'achat du Produit. EIZO et ses Distributeurs déclinent toute responsabilité ou obligation concernant ce Produit face à l'Acheteur initial ou à toute autre personne à l'exception de celles stipulées dans la présente Garantie.

EIZO et ses Distributeurs cesseront de tenir ou conserver en stock toute pièce de ce Produit après l'expiration de la période de sept (7) ans suivant l'arrêt de la production de telles pièces. Pour réparer le moniteur, EIZO et ses Distributeurs utiliseront des pièces de rechange conformes à nos normes de contrôle qualité.

La Garantie est valable uniquement dans les pays ou les territoires où se trouvent les Distributeurs. La Garantie ne limite aucun des droits reconnus par la loi à l'Acheteur initial.

Nonobstant toute autre clause de cette Garantie, EIZO et ses Distributeurs n'auront d'obligation dans le cadre de cette Garantie pour aucun des cas énumérés ci-dessous :

- (a) Tout défaut du Produit résultant de dommages occasionnés lors du transport, d'une modification, d'une altération, d'un abus, d'une mauvaise utilisation, d'un accident, d'une installation incorrecte, d'un désastre, d'un entretien et/ou d'une réparation incorrects effectués par une personne autre que EIZO ou ses Distributeurs ;
- (b) Toute incompatibilité du Produit résultant d'améliorations techniques et/ou réglementations possibles ;
- (c) Toute détérioration des performances d'affichage causée par la détérioration des éléments consommables tels que le panneau LCD et/ou le rétroéclairage, etc. (par exemple des changements de luminosité, des changements de l'uniformité de la luminosité, des modifications de couleur, des changements de l'uniformité des couleurs, des défauts de pixels y compris des pixels brûlés, etc.);
- (d) Tout défaut du Produit causé par un appareil externe ;
- (e) Tout défaut d'un Produit sur lequel le numéro de série original a été altéré ou supprimé ;
- (f) Toute détérioration normale du Produit, particulièrement celle des consommables, des accessoires et/ou des pièces reliées au Produit (touches, éléments pivotants, câbles, Manuel d'utilisation etc.), et
- (g) Toute déformation, décoloration, et/ou gondolage de l'extérieur du Produit, y compris celle de la surface du panneau LCD.

Pour bénéficier d'un service dans le cadre de cette Garantie, l'Acheteur initial doit renvoyer le Produit port payé, dans son emballage d'origine ou tout autre emballage approprié offrant un degré de protection équivalent, au Distributeur local, et assumerà la responsabilité des dommages et/ou perte possibles lors du transport. L'Acheteur initial doit présenter une preuve d'achat du Produit comprenant sa date d'achat pour bénéficier de ce service dans le cadre de la Garantie.

La Période de garantie pour tout Produit remplacé et/ou réparé dans le cadre de cette Garantie expirera à la fin de la Période de garantie initiale.

**EIZO OU SES DISTRIBUTEURS NE SAURAIENT ÊTRE TENUS RESPONSABLES DES DOMMAGES OU PERTES DE DONNÉES OU D'AUTRES INFORMATIONS STOCKÉES DANS UN MÉDIA QUELCONQUE OU UNE AUTRE PARTIE DU PRODUIT RENVOYÉ À EIZO OU AUX DISTRIBUTEURS POUR RÉPARATION.**

AUCUNE AUTRE GARANTIE, EXPLICITE OU TACITE, N'EST OFFERTE PAR EIZO ET SES DISTRIBUTEURS CONCERNANT LE PRODUIT ET SES QUALITÉS, PERFORMANCES, QUALITÉ MARCHANDE OU ADAPTATION À UN USAGE PARTICULIER. EN AUCUN CAS, EIZO OU SES DISTRIBUTEURS NE SERONT RESPONSABLES DES DOMMAGES FORTUITS, INDIRECTS, SPÉCIAUX, INDUITS, OU DE TOUT AUTRE DOMMAGE QUEL QU'IL SOIT (Y COMPRIS, SANS LIMITATION, LES DOMMAGES RÉSULTANT D'UNE PERTE DE PROFIT, D'UNE INTERRUPTION D'ACTIVITÉS, D'UNE PERTE DE DONNÉES COMMERCIALES, OU DE TOUT AUTRE MANQUE À GAGNER) RÉSULTANT DE L'UTILISATION OU DE L'INCAPACITÉ D'UTILISER LE PRODUIT OU AYANT UN RAPPORT QUELCONQUE AVEC LE PRODUIT, QUE CE SOIT SUR LA BASE D'UN CONTRAT, D'UN TORT, D'UNE NÉGLIGENCE, D'UNE RESPONSABILITÉ STRICTE OU AUTRE, MÊME SI EIZO OU SES DISTRIBUTEURS ONT ÉTÉ AVERTIS DE LA POSSIBILITÉ DE TELS DOMMAGES. CETTE LIMITATION INCLUT AUSSI TOUTE RESPONSABILITÉ QUI POURRAIT ÊTRE SOULEVÉE LORS DES RÉCLAMATIONS D'UN TIERS CONTRE L'ACHETEUR INITIAL. L'ESSENCE DE CETTE CLAUSE EST DE LIMITER LA RESPONSABILITÉ POTENTIELLE DE EIZO ET DE SES DISTRIBUTEURS RÉSULTANT DE CETTE GARANTIE LIMITÉE ET/OU DES VENTES.

## GARANTÍA LIMITADA

EIZO Corporation (en lo sucesivo “**EIZO**”) y sus distribuidores autorizados (en lo sucesivo los “**Distribuidores**”), con arreglo y de conformidad con los términos de esta garantía limitada (en lo sucesivo la “**Garantía**”), garantizan al comprador original (en lo sucesivo el “**Comprador original**”) que compró el producto especificado en este documento (en lo sucesivo el “**Producto**”) a EIZO o a sus Distribuidores, que EIZO y sus Distribuidores, a su propio criterio, repararán o sustituirán el Producto de forma gratuita si el Comprador original detecta dentro del periodo de la Garantía (indicado posteriormente) que el Producto no funciona correctamente o que se ha averiado durante el uso normal del mismo de acuerdo con las indicaciones del manual de instrucciones suministrado con el Producto (en lo sucesivo el “**Manual del usuario**”).

El período de validez de esta Garantía está limitado a (i) cinco (5) años a partir de la fecha de compra del Producto o (ii) a 30.000 horas de uso del Producto (en adelante designado como el “**Periodo de Garantía**”); con la exclusión, no obstante, de que el período de garantía del panel LCD del Producto está limitado a tres (3) años a partir de la fecha de compra del Producto. EIZO y sus Distribuidores no tendrán ninguna responsabilidad ni obligación con respecto al Producto para con el Comprador original ni para con terceros que no sean las estipuladas en la presente Garantía.

EIZO y sus Distribuidores no estarán obligados a suministrar cualquier recambio del Producto una vez pasados siete (7) años desde que se deje de fabricar el mismo. Para la reparación del monitor, EIZO y los distribuidores utilizarán repuestos que cumplan con nuestros estándares de control de calidad.

La Garantía es válida sólo en los países y territorios donde están ubicados los Distribuidores. La Garantía no restringe ningún derecho legal del Comprador original.

A pesar de las estipulaciones de esta Garantía, EIZO y sus Distribuidores no tendrán obligación alguna bajo esta Garantía en ninguno de los casos expuestos a continuación:

- (a) Cualquier defecto del Producto causado por daños en el transporte, modificación, alteración, abuso, uso incorrecto, accidente, instalación incorrecta, desastre, mantenimiento incorrecto y/o reparación indebida realizada por un tercero que no sea EIZO o sus Distribuidores.
- (b) Cualquier incompatibilidad del Producto debida a posibles innovaciones técnicas y/o reglamentaciones.
- (c) Cualquier deterioro en el rendimiento de la visualización causado por fallos en las piezas consumibles como el panel LCD y/o la "Backlight", etc. (p. ej. cambios de brillo, cambios de uniformidad del brillo, cambios de color, cambios de uniformidad del color, defectos de píxeles, incluyendo píxeles muertos, etc.).
- (d) Cualquier defecto del Producto causado por un equipo externo.
- (e) Cualquier defecto del Producto en el que haya sido alterado o borrado el número de serie original.
- (f) Cualquier deterioro normal del Producto, y en particular de las piezas consumibles, accesorios y demás (p. ej. botones, piezas giratorias, cables, Manual del usuario, etc.).
- (g) Cualquier deformación, decoloración y/o alabeo del exterior del Producto incluida la superficie del panel LCD.

Para obtener servicio en los términos de esta Garantía, el Producto deberá ser enviado por el Comprador original, a su Distribuidor local, con el transporte previamente pagado, en el embalaje original u otro embalaje adecuado que ofrezca el mismo grado de protección, asumiendo el riesgo de daños y/o pérdida del Producto durante el transporte. El Comprador original deberá presentar un comprobante de compra del Producto en el que se refleje la fecha de compra del mismo cuando lo solicite el servicio de Garantía.

El Periodo de garantía para cualquier Producto reemplazado y/o reparado en los términos de esta Garantía expirará al vencer el Periodo de garantía original.

**EIZO O LOS DISTRIBUIDORES AUTORIZADOS DE EIZO NO SE RESPONSABILIZAN DE NINGÚN DAÑO O PÉRDIDA QUE PUEDAN SUFRIR LOS DATOS U OTRA INFORMACIÓN ALMACENADA EN CUALQUIER MEDIO O CUALQUIER PARTE DE CUALQUIER PRODUCTO DEVUELTO A EIZO O A LOS DISTRIBUIDORES DE EIZO PARA SU REPARACIÓN.**

**EIZO Y LOS DISTRIBUIDORES AUTORIZADOS DE EIZO NO OFRECEN NINGUNA OTRA GARANTÍA, IMPLÍCITA NI EXPLÍCITA, CON RESPECTO AL PRODUCTO Y A SU CALIDAD, RENDIMIENTO, COMERCIABILIDAD E IDONEIDAD PARA CUALQUIER USO EN PARTICULAR. EN NINGÚN CASO SERÁN EIZO O LOS DISTRIBUIDORES AUTORIZADOS DE EIZO RESPONSABLES DE NINGÚN DAÑO EMERGENTE, INDIRECTO, ESPECIAL, INHERENTE O CUALQUIERA QUE SEA (INCLUYENDO, SIN LIMITACIÓN, DAÑOS POR LUCRO CESANTE, INTERRUPCIÓN DE LA ACTIVIDAD COMERCIAL, PÉRDIDA DE INFORMACIÓN COMERCIAL O CUALQUIER OTRA PÉRDIDA PECUNIARIA) QUE SE DERIVE DEL USO O IMPOSIBILIDAD DE USO DEL PRODUCTO O EN RELACIÓN CON EL PRODUCTO, YA SEA BASADO EN CONTRATO, POR AGRAVIO, NEGLIGENCIA, ESTRICTA RESPONSABILIDAD O CUALQUIERA QUE SEA, AUN CUANDO SE HAYA ADVERTIDO A EIZO O A LOS DISTRIBUIDORES DE EIZO DE LA POSIBILIDAD DE TALES DAÑOS. ESTA EXCLUSIÓN TAMBIÉN ABARCA CUALQUIER RESPONSABILIDAD QUE PUEDA DERIVARSE DE RECLAMACIONES HECHAS POR UN TERCERO CONTRA EL COMPRADOR ORIGINAL. LA ESENCIA DE ESTA ESTIPULACIÓN ES LIMITAR LA RESPONSABILIDAD POTENCIAL DE EIZO Y LOS DISTRIBUIDORES QUE PUDIERA DERIVARSE DE ESTA GARANTÍA LIMITADA Y/O VENTAS.**

## GARANZIA LIMITATA

EIZO Corporation (a cui si farà riferimento da qui in poi con "EIZO") ed i Distributori autorizzati da EIZO (a cui si farà riferimento da qui in poi con "Distributori") garantiscono, secondo i termini di questa garanzia limitata (a cui si farà riferimento da qui in poi con "Garanzia") all'acquirente originale (a cui si farà riferimento da qui in poi con "Acquirente originale") che ha acquistato il prodotto specificato in questo documento (a cui si farà riferimento da qui in poi con "Prodotto") da EIZO o dai suoi Distributori, che EIZO e i distributori, a loro discrezione, ripareranno o sostituiranno il Prodotto senza addebito se l'Acquirente originale trova, entro il periodo della Garanzia (definito sotto), che il Prodotto malfunziona e si è danneggiato nel corso del suo normale utilizzo osservando le indicazioni del manuale di istruzioni allegato al Prodotto (a cui si farà riferimento da qui in poi con "Manuale utente").

La presente Garanzia è limitato a (i) cinque (5) anni a partire dalla data d'acquisto del Prodotto; o, limitato (ii) allo scadere di 30.000 ore d'utilizzo del Prodotto (a cui si farà riferimento da qui in poi con "Periodo di Garanzia"); tenendo però presente che il Periodo di garanzia del pannello LCD del Prodotto è limitato a tre (3) anni dalla data d'acquisto del Prodotto. EIZO e i suoi Distributori non si assumono alcuna responsabilità e non hanno alcun obbligo riguardo al Prodotto verso l'Acquirente originale o terzi diversi da quelli relativi a questa Garanzia.

EIZO e i suoi Distributori cesseranno di tenere o di conservare qualsiasi ricambio del Prodotto allo scadere di sette (7) anni dopo che la produzione di tali ricambi è stata terminata. Per la riparazione del monitor, EIZO e i Distributori utilizzeranno parti di ricambio conformi ai nostri standard di controllo della qualità.

La Garanzia è valida soltanto nei paesi dove ci sono i Distributori EIZO. La Garanzia non limita alcun diritto legale dell'Acquirente originale.

Indipendentemente da qualsiasi altra condizione di questa Garanzia, EIZO e i suoi Distributori non avranno alcun obbligo derivante da questa Garanzia in ognuno dei casi elencati di seguito:

- (a) Qualsiasi difetto del Prodotto causato da danni di trasporto, modifiche, alterazioni, abusi, usi impropri, incidenti, installazione errata, calamità, manutenzione errata e/o riparazioni improprie eseguite da terze parti che non siano EIZO o i suoi Distributori.
- (b) Qualsiasi incompatibilità del Prodotto dovuta a possibili innovazioni tecniche e/o normative.
- (c) Qualsiasi deterioramento delle prestazioni dello schermo causato dal deterioramento delle parti consumabili, come il pannello LCD e/o la retroilluminazione, ecc. (per esempio: i cambiamenti di luminosità, cambiamenti di uniformità della luminosità, i cambiamenti di colore, i cambiamenti di uniformità del colore, i difetti dei pixel, inclusi i pixel bruciati, ecc.).
- (d) Qualsiasi difetto del Prodotto causato da apparecchiature esterne.
- (e) Qualsiasi difetto del Prodotto in cui il numero di serie originale sia stato alterato o rimosso.
- (f) Qualsiasi normale deterioramento del Prodotto, in particolar modo nelle sue parti di consumo, accessori, e/o attacchi (per esempio: tasti, parti rotanti, cavi, Manuale dell'utente, ecc.).
- (g) Qualsiasi tipo di deformazione, scolorimento, e/o di involucro esterno del Prodotto inclusa la superficie del pannello LCD.

Per ricevere assistenza tecnica con questa Garanzia, l'Acquirente originale deve inviare il Prodotto, con trasporto pre-pagato, nella sua confezione originale o altra confezione adeguata che fornisce un livello analogo di protezione, assumendosi il rischio di danni e/o perdita in transito, al Distributore locale. L'Acquirente originale deve presentare la prova di acquisto che stabilisce la data di acquisto del Prodotto quando richiede servizio sotto Garanzia.

Il Periodo di garanzia per qualsiasi Prodotto sostituito e/o riparato sotto questa Garanzia scade alla fine del Periodo di garanzia originale.

**EIZO O I SUOI DISTRIBUTORI NON SONO RESPONSABILI PER QUALSIASI DANNO O PERDITA DI DATI O ALTRE INFORMAZIONI MEMORIZZATI SU QUALSIASI SUPPORTO O QUALSIASI PARTE DI QUALSIASI PRODOTTO INVIAZO A EIZO O I SUOI DISTRIBUTORI PER RIPARAZIONI.**

EIZO E I SUOI DISTRIBUTORI NON OFFRONO ALCUNA GARANZIA ADDIZIONALE, IMPLICITA O ESPlicita, RIGUARDO IL PRODOTTO E LA SUA QUALITÀ, PRESTAZIONI, VENDIBILITÀ O APPROPRIATEZZA PER QUALSIASI USO PARTICOLARE. IN NESSUN CASO EIZO O I DISTRIBUTORI EIZO AUTORIZZATI SARANNO RESPONSABILI PER QUALSIASI DANNO ACCIDENTALE, INDIRETTO, SPECIALE, CONSEGUENTE O DI QUALSIASI ALTRA NATURA (INCLUSI, SENZA LIMITI, DANNI PER PERDITA DI PROFITTI, Interruzione delle attività, perdita di informazioni d'affari o qualsiasi altra perdita pecuniaria) derivanti dall'uso o dall'impossibilità di usare il prodotto o in qualsiasi relazione al prodotto, sia su base di contratto, torto, negligenza, stretta responsabilità o altrimenti, anche se EIZO o i distributori EIZO autorizzati sono stati avvertiti della possibilità di tali danni. QUESTA ESCLUSIONE INCLUDE ANCHE QUALSIASI RESPONSABILITÀ CHE POSSA INSORGERE DA RECLAMI DI TERZI CONTRO L'ACQUIRENTE ORIGINALE. L'ESSENZA DI QUESTO PROVVEDIMENTO È LIMITARE LA RESPONSABILITÀ POTENZIALE DI EIZO E DEI DISTRIBUTORI DERIVANTE DA QUESTA GARANZIA LIMITATA E/O DALLE VENDITE.

## BEGRÄNSAD GARANTI

EIZO Corporation (nedan kallat "EIZO") och EIZOs auktoriserade distributörer (nedan kallade "Distributörer") garanterar i enlighet med villkoren i denna begränsade garanti (nedan kallad "Garantin") den ursprunglige köparen (nedan kallad den "Ursprunglige köparen") som köpte den i dokumentet specificerade produkten (nedan kallad "Produkten") från EIZO eller Distributörer, att EIZO eller Distributörer enligt eget gottfinnande kostnadsfritt antingen reparera eller byta ut den defekta Produkten om den Ursprunglige köparen inom Garantiperioden (definieras nedan) upptäcker att Produkten fungerar felaktigt eller skadas under normal användning av Produkten i enlighet med beskrivningen i bruksanvisningen (nedan kallad "Bruksanvisning").

Giltighetsperioden för denna garanti är begränsad till (i) fem (5) år från datumet för Produktens inköp eller, om detta inträffar tidigare, begränsat till utlöpandet av (ii) 30 000 timmars användning av Produkten (här kallad "Garantiperioden"). Garantiperioden för Produktens LCD-panel är dock begränsad till tre (3) år från datumet för Produktens inköp. EIZO och Distributörer ska inte under några villkor ha något annat ansvar än vad som anges i denna garanti gällande Produkten i relation till den Ursprunglige köparen eller tredje part.

EIZO och Distributörer kommer att upphöra med lagerhållning av Produktens delar efter sju (7) år efter att produktionen av dessa delar upphört. Nät skärmen repareras använder EIZO och distributörer reservdelar som uppfyller våra kvalitetsstandarder.

Garantin är endast giltig i de länder där det finns Distributörer. Garantin begränsar inte några av den Ursprunglige köparens lagstadgade rättigheter.

Oavsett andra villkor i denna garanti ska inte EIZO Distributörer under några villkor ha något ansvar i något av de fall som beskrivs nedan:

- (a) När någon bristfällighet hos Produkten kan härledas till att ha uppstått vid frakt, modifiering, ändring, felaktigt handhavande, olycka, felaktig installation, katastrof, felaktigt underhåll och/eller felaktig reparation utförd av tredje part annan än EIZO och Distributörer.
- (b) Alla former av inkompatibilitet hos Produkten på grund av möjliga tekniska innovationer och/eller bestämmelser.
- (c) Alla försämringar av bildens prestanda beroende på förbrukningsdelar så som LCD-panel och/eller bakgrundsbelysning etc. (t.ex. ändringar i ljusstyrka, jämnhet i ljusstyrka, färg, färgjämhet, defekta pixlar och/eller fast lysande pixlar etc.).
- (d) Alla defekter hos Produkten som orsakats av extern utrustning.
- (e) Alla defekter hos Produkten på vilken det ursprungliga serienumret har ändrats eller avlägsnats.
- (f) All normal försämring av Produkten, speciellt förbrukningsartiklar, tillbehör och/eller ytter delar (t.ex. knappar, roterande delar, kablar, Bruksanvisningen etc.).
- (g) Varje deformation, missfärgning och/eller skevhett av Produktens ytter inklusive ytan på LCD-panelen.

För att erhålla service under denna garanti måste den Ursprunglige köparen (med hänsyn till risken för skada och/eller förlust under transport) leverera Produkten till närmaste Distributör med förebetalda fraktkostnader, i dess ursprungliga förpackning eller annan fullgod förpackning som ger likvärdigt skydd. Den Ursprunglige köparen måste kunna visa inköpsbevis för Produkten som klargör Produktens inköpsdatum vid begäran av garantiservice.

Garantiperioden för alla utbytta och/eller reparerade produkter under denna garanti skall upphöra vid utgången av den ursprungliga Garantiperioden.

**EIZO ELLER DISTRIBUTÖRER ÄR INTE ANSVARIGA FÖR NÅGON FORM AV SKADA ELLER FÖRLUST AV DATA ELLER ANNAN INFORMATION SOM HAR LAGRATS I NÅGON FORM AV MEDIA ELLER ANNAN DEL AV NÅGON PRODUKT SOM HAR RETURNERATS TILL EIZO ELLER DISTRIBUTÖRER FÖR REPARATION.**

EIZO OCH DISTRIBUTÖRERNA GARANTERAR INGET, UTTRYCKLIGEN ELLER UNDERFÖRSTÄTT, VAD BETRÄFFAR PRODUKTEN OCH DESS KVALITET, PRESTANDA, SÄLJBARHET ELLER LÄAMPLIGHET FÖR NÅGON FORM AV SPECIELL ANVÄNDNING. UNDER INGA OMSTÄNDIGHETER SKALL EIZO ELLER DISTRIBUTÖRERNA HÅLLAS ANSVARIGA FÖR NÅGRA SOM HELST UNDERORDNADE, INDIREKTA, SPECIELLA, DÄRAV FÖLJANDE ELLER ÖVRIGA SKADOR (INKLUSIVE, UTAN BEGRÄNSNING TILL, SKADOR FÖR FÖRLUST AV INKOMST, AVBRUTEN AFFÄRSRÖRELSE, FÖRLUST AV AFFÄRSINFORMATION ELLER ANNAN SÄRSKILD FÖRLUST) SOM UPPSTÄTT SOM ETT RESULTAT AV ANVÄNDNING ELLER OFÖRMÅGA ATT ANVÄNDA PRODUKTEN ELLER I NÅGON FORM AV ANSLUTNING TILL PRODUKTERNA, VARE SIG DETTA GRUNDAS PÅ KONTRAKT, ÅTALBAR HANDLING, FÖRSUMLIGHET, ANSVARSSKYLDIGHET ELLER ANNAT, ÄVEN OM EIZO ELLER DISTRIBUTÖRERNA HAR INFORMERATS BETRÄFFANDE MÖJLIGHET ATT SÅDANA SKADOR FÖRELIGGER. DETTA UNDANTAG OMFATTAR ÄVEN ALL FORM AV ANSVARSSKYLDIGHET SOM KAN UPPSTÅ GENOM EN TREDJE PARTS ANSPRÅK GENTEMOT DEN URSPRUNGLIGE KÖPAREN. GRUNDBESTÄNDSDELEN I BESTÄMMELSEN ÄR ATT BEGRÄNSA DET EVENTUELLA ANSVARSTAGANDET FÖR EIZO OCH DISTRIBUTÖRERNA SOM KAN UPPSTÅ GENOM DENNA BEGRÄNSADE GARANTI OCH/ELLER FÖRSÄLJNING.





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- (b) 由于可能发生的技术变更和 / 或调整造成本产品的任何不兼容性。
- (c) 由于诸如液晶显示屏 (LCD) 和 / 或背灯等消耗品部件的老化造成的任何显示性能低劣 (如亮度变化、亮度均一性变化、色彩变化、色彩均一性变化、如烧伤像素等像素缺陷)。
- (d) 因外部设备造成本产品的任何故障。
- (e) 因本产品的原序号被改变或消除造成本产品的任何故障。
- (f) 本产品的任何正常老化, 尤其是消耗品、附件和 / 或附加装置 (如按钮、旋转部件、电缆、用户手册等)、以及
- (g) 本产品表面包括液晶显示屏 (LCD) 表面的任何变形、变色和 / 翘曲。

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## 关于电子信息产品污染控制标识



本标识根据「电子信息产品污染控制管理办法」，适用于在中华人民共和国销售的电子信息产品。标识中央的数字为环保使用期限的年数。只要您遵守该产品相关的安全及使用注意事项，在自制造日起算的年限内，不会产生对环境污染或人体及财产的影响。上述标识粘贴在机器背面。

### • 有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板	×	○	○	○	○	○
机箱	○	○	○	○	○	○
液晶显示器	×	×	○	○	○	○
其他	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 规定的限量要求以下。  
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 规定的限量要求。  
(企业可在此处，根据实际情况对上表中打“×”的技术原因进行进一步说明)

