

User's Manual

FlexScan® S1703 S1903 S1933

Color LCD Monitor

Important

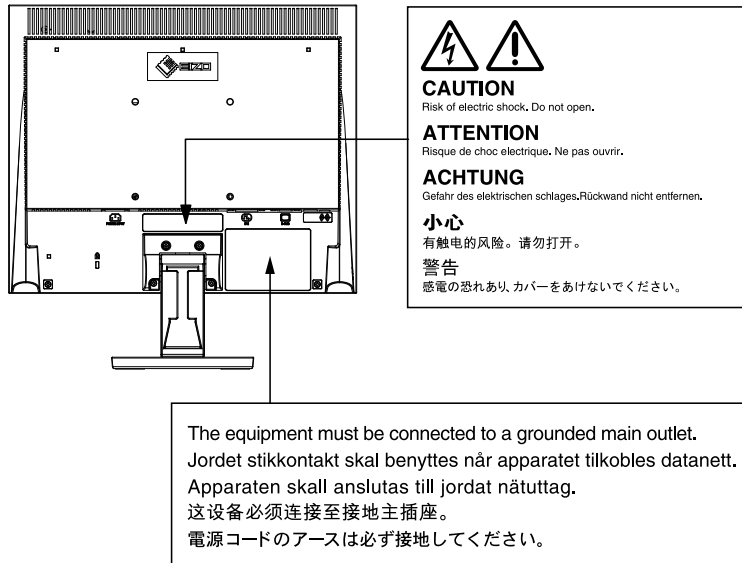
Please read PRECAUTIONS, this User's Manual, and the Setup Guide (separate volume) carefully to familiarize yourself with safe and effective usage.

-
- Please refer to the Setup Guide 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.eizoglobal.com>
-

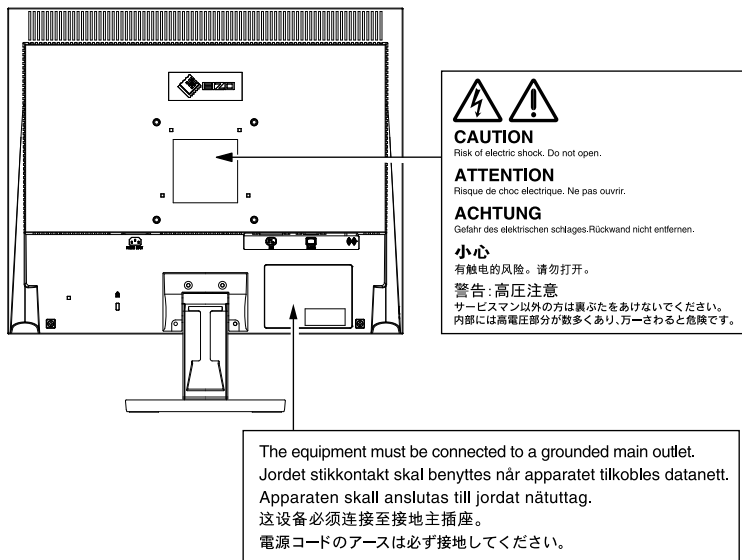


[Location of the Caution Statements]

S1703 (Ex.Tilt Stand)



S1903 / S1933 (Ex.Tilt Stand)



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.

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Notice for this monitor

This product is suited to general purposes like creating documents, viewing multimedia content.

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.

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

The specifications noted in this manual are only applicable when the following are used:

- Power cords provided with the product
 - Signal cables specified by us
-

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

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.

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

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.

Periodic cleaning is recommended to keep the monitor looking new and to prolong its operation lifetime (refer to [“Cleaning” \(page 5\)](#)).

The LCD panel is manufactured using high-precision technology. Although, missing pixels or lit pixels may appear on the LCD panel, this is not a malfunction. Percentage of effective dots: 99.9994% or higher.

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

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.)

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.

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.

Cleaning

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.
-

NOTE

- The optional ScreenCleaner is recommended for cleaning the cabinet and panel surface.
-

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

- 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

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

1-1 Features

- Applicable to the resolution of 1280 × 1024
- Stereo speakers
- Power saving function

Suppressing the power consumption* reduces the carbon dioxide emissions. This product is equipped with various power saving functions.

– Auto EcoView function

The sensor on the front side of the monitor detects the environmental brightness to adjust the screen brightness automatically and comfortably.

Excessively high brightness may lead a damage to the natural environment as well as to your eyes. Suppressing the excessively high brightness will be helpful to reduce the power consumption and the damage to your eyes.

[“2-11 Setting On/Off for the automatic brightness adjustment function \[Auto EcoView\]” \(page 21\)](#)

– EcoView Index function

This indicator shows the power saving ratio, power reduction and CO₂ reduction as a result of the brightness

of the monitor. You can realize the power consumption reduction by taking consideration in the ratio of power saving.

[“2-12 Displaying the level of power saving by EcoView Index” \(page 21\)](#)

- FineContrast function to allow the best mode for screen display
 - Features Paper mode showing a view when printed onto paper
 - [To select the display mode \(FineContrast mode\)” \(page 18\)](#)
- Supports portrait and landscape formats (For height adjustable stand)
- The software “ScreenManager Pro for LCD (DDC/CI)” to adjust the screen using the mouse and keyboard is included
 - [“2-3 Utility Disk” \(page 14\)](#)

* Reference values:

-S1703

Maximum power consumption:
25W (Luminance Max., at default settings)

Standard power consumption: 9W
(Luminance 120cd/m², at default settings)

-S1903

Maximum power consumption:
23W (Luminance Max., at default settings)

Standard power consumption: 11W
(Luminance 120cd/m², at default settings)

-S1933

Maximum power consumption:
24W (Luminance Max., at default settings)

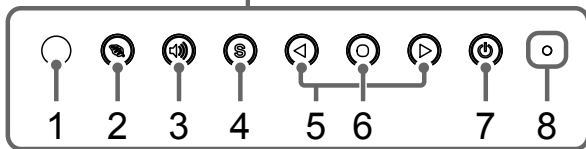
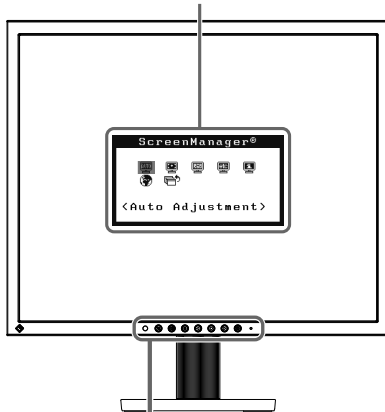
Standard power consumption: 12W
(Luminance 120cd/m², at default settings)

Note

- When using the monitor screen in a portrait position, the graphics board supporting portrait display is required. When placing the monitor in a portrait position, the settings of your graphics board need to be changed. Refer to the User’s Manual of the graphics board for details.

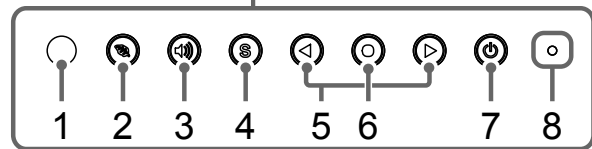
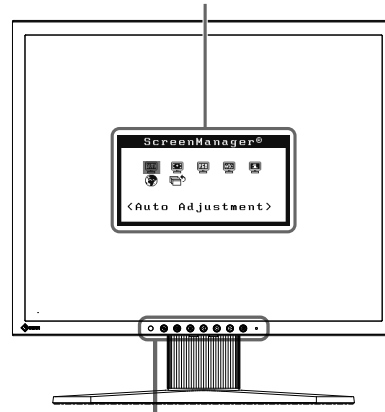
1-2 Buttons and Indicators Front

Adjustment menu (ScreenManager*1)



Tilt Stand

Adjustment menu (ScreenManager*1)

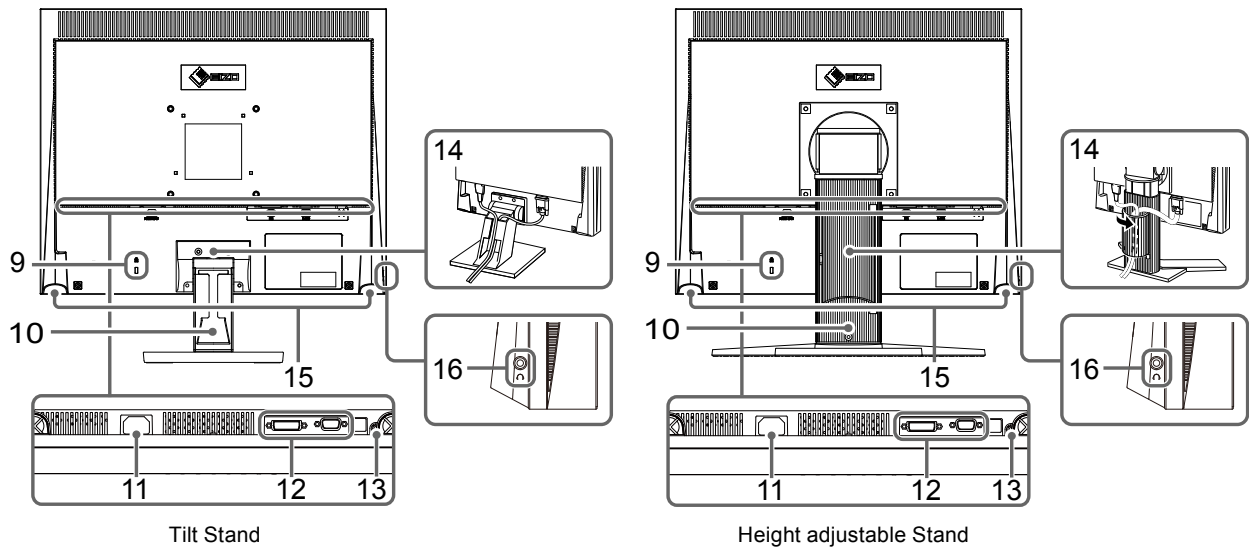


Height adjustable Stand

1	Sensor	The sensor detects ambient brightness. Auto EcoView function (page 21)
2	EcoView button	Displays the setting menu of Auto EcoView and EcoView Index (page 21).
3	Volume control button	Displays the volume adjustment menu (page 10).
4	Input Signal Selection button	Switches input signals for display.
5	Control buttons (Left, Right)	<ul style="list-style-type: none"> Displays the brightness adjustment window (page 10). Chooses an adjustment item or increases/decreases adjusted values for advanced adjustments using the Adjustment menu (page 11).
6	Enter button	Displays the Adjustment menu, determines an item on the menu screen, and saves values adjusted.
7	Power button	Turns the power on or off.
8	Power indicator	Indicates monitor's operation status. Blue: Operating Orange: Power saving Off: Power off

*1 ScreenManager is an EIZO's nickname of the Adjustment menu. See "Basic operation of Adjustment menu" ([page 11](#)) for how to use.

Rear



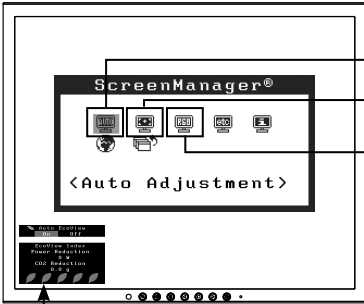
9	Security lock slot	Complies with Kensington's MicroSaver security system.
10	Stand*2	Tilt Stand : Used to adjust the angle (tilt) of the monitor screen. Height adjustable Stand : Adjusts the height and angle (tilt and swivel) of the monitor.
11	Power connector	Connects the power cord.
12	Input signal connectors	Left: DVI-D connector/Right: D-Sub mini 15-pin connector
13	Stereo mini jack	Connects the stereo mini jack cable.
14	Cable holder	Covers the monitor cables.
15	Speaker	Outputs audio source.
16	Headphone jack	Connects the headphones.

*2 An optional arm (or an optional stand) can be attached by removing the stand section. (Refer to "5-1 How to Attach the Optional Arm" (page 26))

1-3 Functions and Basic Operation

To adjust the screen and color

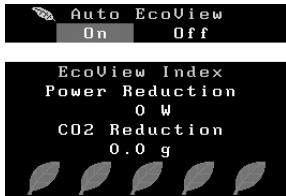
● Main menu (Refer to [page 11](#) for operation)



- The Adjustment menu and the EcoView menu cannot be displayed at the same time.

EcoView menu

- Setting On/Off for the automatic brightness adjustment function
[Auto EcoView]..... see [page 21](#)
1 Press .
2 Change “On” and “Off” with or .
- Displaying the level of power saving by EcoView Index see [page 21](#)
Press to display the level of power saving mode.



Brightness Adjustment

Press or to adjust brightness.

Volume Adjustment

1 Press .



2 Press or to adjust volume.

(for analog signal input only)

1 Screen Adjustment (Automatic Adjustment) page 15

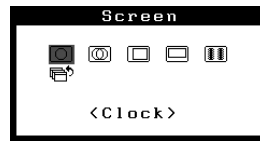


- To adjust flickering and position
[Screen]..... see [page 15](#)
- To adjust color gradation automatically
[Range] see [page 17](#)

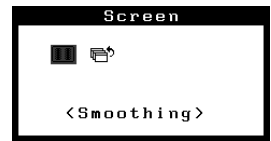
2 Screen Adjustment (Advanced Adjustment) page 16

[Adjustment menu]

[At analog signal input]



[At digital signal input]



- To eliminate vertical bars [Clock*] ... see [page 16](#)
 - To remove flickering or blurring
[Phase*]..... see [page 16](#)
 - To correct screen position
[Hor. Position*] see [page 17](#)
[Ver. Position*] see [page 17](#)
 - To modify blurred characters/lines
[Smoothing] see [page 17](#)
- * Items marked with * can be adjusted with analog input.

Color Adjustment page 18



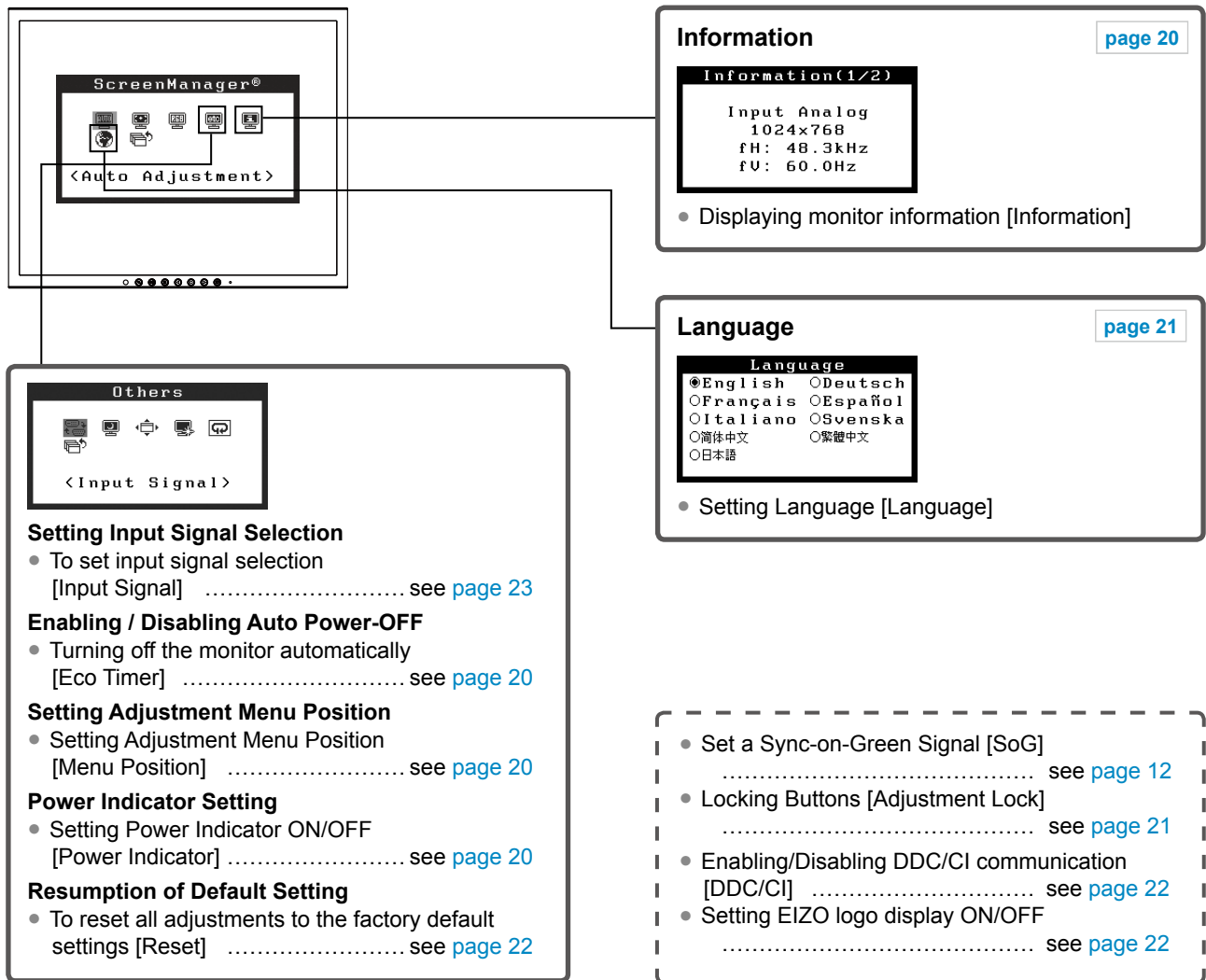
- To select the display mode (FineContrast mode) see [page 18](#)
- “Brightness,” “Contrast,” “Temperature,” and “Gain” can be set for each mode (Custom/ EyeCare/Paper/Text/sRGB (S1703/S1903), Custom/EyeCare/Paper/sRGB/DICOM (S1933)). Settable functions vary with the display mode.

Resumption of Default Setting

- To reset color adjustment values
[Reset] see [page 22](#)

To make useful settings/adjustments

- Adjustment menu (Refer to below for operation)



Basic operation of Adjustment menu

[Displaying Adjustment menu and selecting function]

- (1) Press ●. The main menu appears.
- (2) Select a function with ◀ or ▶, and press ●. The sub menu appears.
- (3) Select a function with ◀ or ▶, and press ●. The adjustment/setting menu appears.
- (4) Adjust the selected item with ◀ or ▶, and press ●. The setting is saved.

[Exiting Adjustment menu]

- (1) Choose <Return> from the sub menu and press ●.
- (2) Choose <Exit> from the main menu and press ●.







NOTE

- The Adjustment menu can also be exited by pressing ● twice quickly.

Chapter 2 Settings and Adjustments

2-1 Set a Sync-on-Green Signal

When inputting a sync-on-green signal, the [SoG] setting for the monitor must be changed in advance according to the procedure below (for analog signal).

- (1) Press  to turn off the monitor.
- (2) Press  holding  down to turn on the monitor.
- (3) Select “On” with  or , and press .

2-2 Setting Screen Resolution

Compatible Resolutions/Frequencies

The monitor supports the following resolutions.

Analog Input

Resolution	Frequency	Dot Clock
640 × 480 (VGA, VESA)	~75 Hz	135 MHz (Max.)
720 × 400 (VGA TEXT)	70 Hz	
800 × 600 (VESA)	~75 Hz	
1024 × 768 (VESA)	~75 Hz	
1152 × 864 (VESA)	75 Hz	
1280 × 960 (VESA)	60 Hz	
1280 × 1024 (VESA)*	~75 Hz	

Digital Input

Resolution	Frequency	Dot Clock
640 × 480 (VGA)	60 Hz	108 MHz (Max.)
720 × 400 (VGA TEXT)	70 Hz	
800 × 600 (VESA)	60 Hz	
1024 × 768 (VESA)	60 Hz	
1280 × 1024 (VESA)*	60 Hz	

* Recommended resolution (Set this resolution)

Setting Resolution

When you connect the monitor to the PC and find that the resolution is improper, or when you want to change the resolution, follow the procedure below.

- **Windows 8 / Windows 7**

1. For Windows 8, click the “Desktop” tile on the Start Screen to display the desktop.
2. Right-click the mouse anywhere on the desktop except for icons.
3. From the displayed menu, click “Screen resolution”.
4. On the “Screen Resolution” dialog box, select the monitor.
5. Click “Resolution” to select the desired resolution.
6. Click the “OK” button.
7. When a confirmation dialog box is displayed, click “Keep changes”.

- **Windows Vista**

1. Right-click the mouse anywhere on the desktop except for icons.
2. From the displayed menu, click “Personalize”.
3. On the “Personalization” window, click “Display Settings”.
4. On the “Display Settings” dialog box, select the “Monitor” tab and select desired resolution in the “Resolution” field.
5. Click the “OK” button.
6. When a confirmation dialog box is displayed, click “Yes”.

- **Windows XP**

1. Right-click the mouse anywhere on the desktop except for icons.
2. From the displayed menu, click “Properties”.
3. When the “Display Properties” dialog box is displayed, click the “Settings” tab and select desired resolution for “Screen resolution” under “Display”.
4. Click the “OK” button to close the dialog box.

- **Mac OS X**

1. Select “System Preferences” from the Apple menu.
2. When the “System Preferences” dialog box is displayed, click “Displays” for “Hardware”.
3. On the displayed dialog box, select the “Display” tab and select desired resolution in the “Resolutions” field.
4. Your selection will be reflected immediately. When you are satisfied with the selected resolution, close the window.

2-3 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 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	Windows	Macintosh
Screen adjustment pattern files	Used when adjusting the image of analog signal input manually.	√	√
ScreenManager Pro for LCD (DDC/CI)	Software for adjusting the screen using the mouse and keyboard.	√	-
EIZO ScreenSlicer	Software that divides a screen and lays out multiple windows efficiently.	√	-
User’s Manual of this monitor (PDF file)		√	√
Readme.txt file		√	√

- **To use ScreenManager Pro for LCD (DDC/CI)/EIZO ScreenSlicer**

For the installation and use of ScreenManager Pro for LCD (DDC/CI)/EIZO ScreenSlicer, refer to the respective User’s Manual on the disc.

2-4 Screen Adjustment

Digital Input

When digital signals are input, images are displayed correctly based on the preset data of the monitor, but if characters and/or lines appear blurred, go to step 6 “• To modify blurred characters/lines [Smoothing]” (page 17). When performing more advanced adjustment, see “2-5 Color Adjustment” (page 18) and 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.





The Self Adjust function works when all of the following conditions are satisfied.

- When a signal is input into the monitor for the first time or when the resolution or Vertical/Horizontal Frequency not displayed before is set
- When signals with the vertical resolution over 480 are input

If the screen is not displayed correctly even after performing the Self Adjust operation, adjust the screen according to the procedures on the following pages to use the monitor comfortably.

[Adjustment Procedure]

1 Perform the auto adjustment.

- To adjust flickering, screen position, and screen size automatically [Screen]
 - (1) Choose <Screen> from the <Auto Adjustment> menu, and press .
 - The <Auto Adjustment> menu appears.
 - (2) Select “Execute” with  or , and press .
 - Flickering, screen position, and screen size are corrected by the auto-adjustment function.

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 [Range]” (page 17).

2 Prepare the display pattern for the analog display adjustment.

Load the “EIZO LCD Utility Disk” to your PC, and then open the “Screen adjustment pattern files”.

Attention

- Wait 30 minutes or more from monitor power on before starting adjustments. (Allow the monitor to warm up for at least 30 minutes before making adjustments.)
- The self adjustment (or automatic screen adjustment) function works correctly when an image is fully displayed over the Windows or Macintosh display area. They do not work properly in the cases below:
 - When an image is displayed only on a part of the screen (command prompt window, for example)
 - When a black background (wallpaper, etc.) is in useAlso, these functions cannot work properly in some graphic boards.

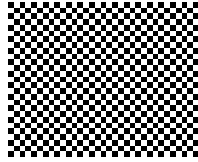
NOTE

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

3 Perform the auto adjustment again with the analog screen adjustment pattern displayed.

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

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



- (2) Choose <Screen> from the <Auto Adjustment> menu, and press .
The <Auto Adjustment> menu appears.
- (3) Select “Execute” with or , and press .
Flickering, screen position, and screen size are corrected by the auto-adjustment function.

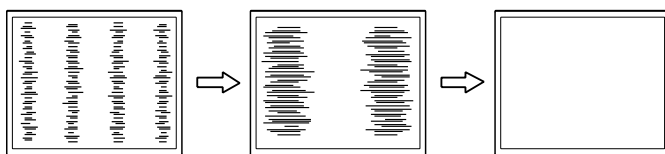
If the screen is not displayed correctly even after adjusting in step 3 above, perform the adjustments according to the procedures on the following pages. When the screen is displayed correctly, go to step 5 “• To adjust color gradation automatically [Range]” (page 17).

4 Perform advanced adjustments for the following using the <Screen> menu of the Adjustment menu.

Adjust the clock, phase and position, in this order.

- **To eliminate vertical bars [Clock]**

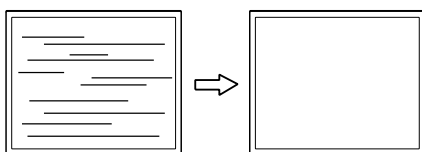
- (1) Choose <Clock> from the <Screen> menu, and press .
The <Clock> menu appears.
- (2) Adjust the clock with or , and press .
The adjustment is completed.



- **To remove flickering or blurring [Phase]**

Adjustable range: 0 to 63

- (1) Choose <Phase> from the <Screen> menu, and press .
The <Phase> menu appears.
- (2) Adjust the phase with or , and press .
The adjustment is completed.



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 “• To remove flickering or blurring [Phase]” (page 16) to remove flickering or blurring.




Attention

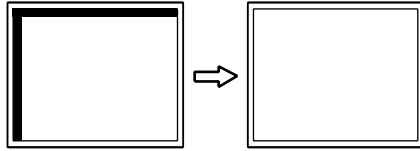
- Flickering or blurring may not be eliminated depending on your PC or graphics board.

NOTE

- When vertical bars appear on the screen after adjustment, go back to “• To eliminate vertical bars [Clock]” (page 16). (Clock → Phase → Position)

- **To correct screen position [Hor. Position], [Ver. Position]**

- (1) Choose <Hor. Position> and or <Ver. Position> from the <Screen> menu, and press .
The <Hor. Position> or <Ver. Position> menu appears.
- (2) Adjust the position with  or  to display the image properly in the display area of the monitor.
The adjustment is completed.

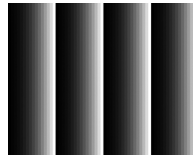






5 Adjust the color gradation.

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

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) Choose <Range> from the <Auto Adjustment> menu, and press .
- (3) Select “Execute” with  or , and press .
- (4) Close the Pattern 2.

6 Modify blurred characters or lines.

- **To modify blurred characters/lines [Smoothing]**

When a image is displayed with a resolution other than the recommendation, the characters or lines of the displayed image may be blurred.

Adjustable range: 1 to 5

- (1) Choose <Smoothing> from the <Screen> menu, and press .
- (2) Adjust the characters/lines with  or , and press .

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.






2-5 Color Adjustment

• To select the display mode (FineContrast mode)

This function allows you to select the best display mode for monitor brightness, etc.

FineContrast mode

Mode	Purpose
Custom	Available for making desired setting.
EyeCare	Allows the brightness to be set lower than possible with other modes.
Paper	Produces a printed paper effect. Suitable for displaying images from media such as books and documents.
Text (S1703/S1903)	Suitable for displaying texts for word processing or spreadsheets.
sRGB	Suitable for color matching with sRGB compatible peripherals.
DICOM (S1933)	Selected for the display in the DICOM mode.

- Choose <Color> from the Adjustment menu, and press .
- Choose <Color Mode> from the <Color> menu, and press .
The <Color Mode> menu appears.
- Select the mode with  or , and press .
The setting completes.






• To perform advanced adjustments

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

• Adjustment items in each mode

According to the FineContrast mode selected, the adjustable function differs.

√ : Adjustment available – : Invalid for adjustment






Icon	Function	FineContrast mode					
		Custom	EyeCare	Paper	Text (S1703/S1903)	sRGB	DICOM (S1933)
	Brightness	√	√	√	√	√	–
	Contrast	√	–	–	√	–	–
	Temperature	√	√	–	√	–	–
	Gain	√	√	–	–	–	–
	Reset	√	√	√	√	√	–

NOTE

- “ScreenManager Pro for LCD (DDC/CI)” allows you to select the FineContrast mode automatically according to the application used. (Refer to “Chapter 3 Auto FineContrast” on the User’s Manual for “ScreenManager Pro for LCD (DDC/CI)”.)

Attention

- Wait 30 minutes or more from monitor power on before starting adjustments.
- Perform the range adjustment first when adjusting color for analog input signals. (Refer to “• To adjust color gradation automatically [Range]” (page 17).)
- 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.

Menu	Description	Adjustment range
Brightness 	To adjust the full screen brightness as desired	0 to 100%
	NOTE <ul style="list-style-type: none"> • Values shown in percentage are available only as reference. • You can also adjust the brightness by pressing ◀ or ▶ button while the adjustment menu is not displayed. Press ● after adjustment. • If you feel that the image is too dark even if the brightness is set to 100%, adjust the contrast. 	
Contrast 	To adjust the contrast of the image	0 to 100%
	NOTE <ul style="list-style-type: none"> • Values shown in percentage are available only as reference. • 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. <ul style="list-style-type: none"> – When you feel the image is too dark even if the brightness is set to 100% (Set the contrast to higher than 50%.) 	
Temperature 	To select a color temperature	Off, 5000K, 6500K, 9300K
	NOTE <ul style="list-style-type: none"> • Setting the value to “Off” presents the natural color of the panel. • The values shown in the Kelvin (K) are available only as reference. 	
Gain 	To adjust red, green, and blue to a desired color tone respectively	0 to 100% Adjust the respective brightness of red/green/blue to make a desired color tone. Display an image with white or gray background for adjustment.
	Attention <ul style="list-style-type: none"> • This function does not enable to display every color gradation. NOTE <ul style="list-style-type: none"> • Values shown in percentage are available only as reference. • When using the <Gain> setting, the <Temperature> setting is set to “Off”. • The gain value may change depending on the value of the color temperature. 	
Reset 	To reset the color settings of the selected FineContrast mode to the default settings	

NOTE

- Using the “ScreenManager Pro for LCD (DDC/CI)” allows you to perform the color adjustment by using the mouse and keyboard of your PC. The adjusted status can be registered as a color data and restore the data later. (Refer to “Chapter 4 Color Adjustment” on the User’s Manual for “ScreenManager Pro for LCD (DDC/CI)”.)








• **To set/adjust color**

- (1) Choose <Color> from the Adjustment menu, and press ●.
- (2) Select a desired function from the <Color> menu, and press ●.
The selected function menu appears.
- (3) Adjust the selected item with ◀ or ▶, and press ●.
The adjustment is completed.

2-6 Turning off the monitor automatically [Eco Timer]






This function allows you to specify whether to turn on / off the monitor automatically after a specified time has elapsed in the power saving mode.

Adjustable range: Disable, Enable (0, 1, 2, 3, 5, 10, 15, 20, 25, 30, 45 min, 1-5h)

- (1) Choose <Others> from the Adjustment menu, and press .
- (2) Choose <Eco Timer> from the <Others> menu, and press .
The <Eco Timer> menu appears.
- (3) Select “Enable” or “Disable” with  or .
- When selecting “Enable”, set a monitor Off time with  or .
- (4) Press .
- The setting is completed.






2-7 Setting Adjustment Menu Position [Menu Position]

Adjust the menu position using the following procedure.

- (1) Choose <Others> from the Adjustment menu, and press .
- (2) Choose <Menu Position> from the <Others> menu, and press .
- The <Menu Position> menu appears.
- (3) Select a menu position with  or , and press .
- The setting is completed.

2-8 Setting Power Indicator ON/OFF [Power Indicator]

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

- (1) Choose <Others> from the Adjustment menu, and press .
- (2) Choose <Power Indicator> from the <Others> menu, and press .
- The <Power Indicator> menu appears.
- (3) Select “Enable” or “Disable” with  or , and press .
- The setting is completed.



2-9 Displaying Monitor Information [Information]

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

Information 1/3 : Input signal status, resolution and H/V frequency

Information 2/3 : Enable/Disable setting for DDC/CI, On/Off setting for SoG (Sync-on-Green)

Information 3/3 : Model name, serial number and usage time

- (1) Choose <Information> from the Adjustment menu, and press .
- The <Information> menu appears.
- (2) Then, press  to check settings, etc.

NOTE





- The usage time is not always “0” when you purchase the monitor due to factory inspection.

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) Choose <Language> menu from the Adjustment menu, and press .
The <Language> menu appears.
- (2) Choose a language with  or , and press .
The setting is completed.


2-11 Setting On/Off for the automatic brightness adjustment function [Auto EcoView]

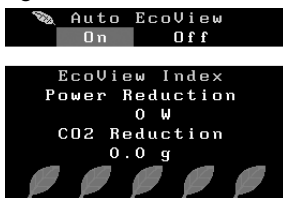
The sensor on the front side of the monitor detects the environmental brightness to adjust the screen brightness automatically and comfortably by using the Auto EcoView function.

- (1) Press .
The <Auto EcoView> menu appears.
- (2) Select “On” or “Off” with  or , and press .
The setting is completed.

2-12 Displaying the level of power saving by EcoView Index

This indicator shows the power saving ratio, power reduction and CO₂ reduction as a result of the brightness of the monitor.




- (1) Press .
The EcoView Index menu appears.
The power saving ratio comes to high as the indicator level meter lights towards right.



2-13 Locking Buttons

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

• To lock adjustments/settings in the Adjustment menu

- (1) Press  to turn off the monitor.
- (2) Press  holding  down to turn on the monitor.
The Lock/Unlock setting is toggled by performing the operation in step 2.

NOTE

- Be careful not to block the sensor on the lower side of the monitor when using the Auto EcoView function.
- When “DICOM” is selected for the color mode, the Auto EcoView setting is turned “Off” (S1933).

NOTE

Power reduction: the backlight's reduction of electricity consumption as a result of the adjusted brightness value
CO₂ reduction: converted from the “Power reduction” value, this is an estimate of the quantity of CO₂ emissions reduced when using the monitor for 1 hour.




* The numeric value is a result of a calculation based on a default setting (0.000555 t -CO₂/kWh) determined by a Japanese ministerial ordinance (2006, Ministry of Economy, Trade and Industry, Ministry of Environment, civil code article 3) and may differ depending on country and year.

NOTE

- The following operations are available even if the buttons are locked:
 - Turning on or off the monitor with the Power button

2-14 Enabling/Disabling DDC/CI communication




This function allows you to enable/disable the DDC/CI communication.

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

The Enable/Disable setting is toggled by performing the operation in step 2.

2-15 Setting EIZO logo display ON/OFF

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.

2-16 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.

• To reset color adjustment values






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

- (1) Choose <Color> from the Adjustment menu, and press .
- (2) Choose <Reset> from the <Color> menu and press .
- (3) Select “Reset” with  or , and press .

The color adjustment values revert to the default settings.

• To reset all adjustments to the factory default settings

Reset all adjustments to the factory default settings.

- (1) Choose <Others> from the Adjustment menu, and press .
- (2) Choose <Reset> from the <Others> menu, and press .
- (3) Select “Reset” with  or , and press .

All setting values revert to the default settings.

NOTE

- You can check the DDC/CI setting in the <Information> menu.

Attention

- After resetting, you cannot undo the operation.

NOTE

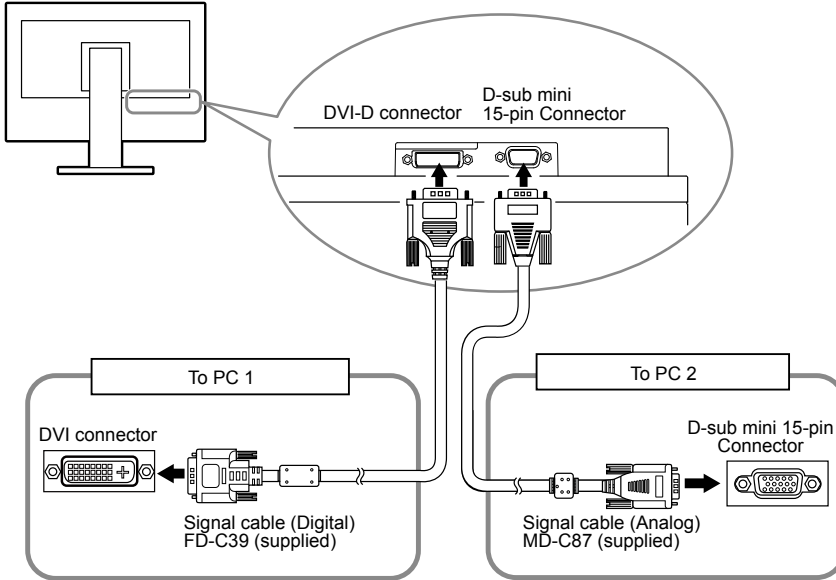
- For default settings, refer to “[Main default settings \(factory settings\)](#)” (page 32).

Chapter 3 Connecting Cables

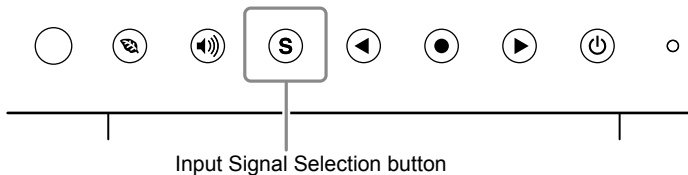
3-1 Connecting Multiple PCs to the Monitor

Multiple PCs can be connected to the DVI-D, D-Sub mini 15 pin connector on the back of the monitor to switch the display.

Connection examples



• To switch the input signal



Switch the input signal with **(S)**. Input signal switches each time **(S)** is pressed. When the signal is switched, the active signal type (Analog or Digital) appears at the top right corner of the screen for three seconds.

• To set input signal selection [Input Signal]

Setting	Function
Auto	When a PC is turned off or enters the powersaving mode, the monitor automatically displays another signal.
Manual	The monitor detects only the PC's signals currently displaying automatically. Select the input signal for display using the (S) operation button.

NOTE

- When "Auto" is selected for <Input Signal>, the monitor's power-saving function works only when the two PCs are in the power-saving mode.

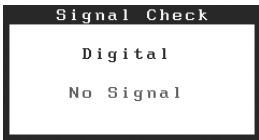
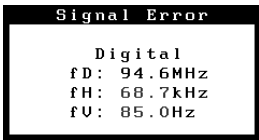



[Procedure]

- Choose <Others> from the Adjustment menu, and press **(●)**.
- Choose <Input Signal> from the <Others> menu, and press **(●)**.
The <Input Signal> menu appears.
- Select "Auto" or "Manual" with **(◀)** or **(▶)**, and press **(●)**.
The setting is completed.

Chapter 4 Troubleshooting

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

- No-picture problems → See No.1 - No.2.
- Imaging problems (digital input) → See No.6 - No.11.
- Imaging problems (analog input) → See No.3 - No.11.
- Other problems → See No.12 - No.14.

Problems	Possible cause and remedy
<p>1. No picture</p> <ul style="list-style-type: none"> • Power indicator does not light. <hr/> <ul style="list-style-type: none"> • Power indicator is lighting blue. <hr/> <ul style="list-style-type: none"> • Power indicator is lighting orange. 	<ul style="list-style-type: none"> • 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. <hr/> <ul style="list-style-type: none"> • Set each adjusting value in <Brightness>, <Contrast> and <Gain> to higher level. (page 19) <hr/> <ul style="list-style-type: none"> • Switch the input signal with (S). • Move the mouse or press any key on the keyboard. • Turn on the PC.
<p>2. The message below appears.</p> <ul style="list-style-type: none"> • This message appears when no signal is input. Example:  <hr/> <ul style="list-style-type: none"> • The message below shows that the input signal is out of the specified frequency range. (Such signal frequency is displayed in red.) Example: 	<p>This message appears when the signal is not input correctly even when the monitor functions properly.</p> <hr/> <ul style="list-style-type: none"> • The message shown left may appear, because some PCs do not output the signal soon after power-on. • Check whether the PC is turned on. • Check whether the signal cable is connected properly. • Switch the input signal with (S). • When inputting a sync-on-green signal, the [SoG] setting for the monitor must be changed in advance (for analog signal). (page 12) <hr/> <ul style="list-style-type: none"> • Check whether the signal setting of your PC matches the resolution and the vertical frequency settings for the monitor. (page 12) • Reboot the PC. • Select an appropriate setting using the graphics board's utility. Refer to the User's Manual of the graphics board for details. <ul style="list-style-type: none"> fD : Dot Clock (Displayed only when the digital signal inputs) fH : Horizontal Frequency fV : Vertical Frequency
<p>3. Display position is incorrect.</p> 	<ul style="list-style-type: none"> • Adjust image position so that it is displayed properly within the display area using the <Hor.Position> and <Ver.Position> adjustment. • If the problem persists, use the graphics board's utility software if available to change the display position.
<p>4. Vertical bars appear on the screen or a part of the image is flickering.</p> 	<ul style="list-style-type: none"> • Adjust using <Clock>. (page 16)
<p>5. Whole screen is flickering or blurring.</p> 	<ul style="list-style-type: none"> • Adjust using <Phase>. (page 16)

Problems	Possible cause and remedy
6. Characters are blurred.	<ul style="list-style-type: none"> • Check whether the signal setting of your PC matches the resolution and the vertical frequency settings for the monitor. (page 12) • Adjust using <Smoothing>. (page 17)
7. The screen is too bright or too dark.	<ul style="list-style-type: none"> • Adjust using <Brightness> or <Contrast>. (The LCD monitor backlight has a limited life span. When the screen becomes dark or begins to flicker, contact your local EIZO representative.) • If the screen is too bright, turn on Auto EcoView. (page 21) The monitor detects the environmental brightness to adjust the screen brightness automatically.
8. Afterimages appear.	<ul style="list-style-type: none"> • Afterimages are particular to LCD monitors. Avoid displaying the same image for a long time. • Use the screen saver or power save function to avoid displaying the same image for extended periods of time.
9. Green/red/blue/white dots or defective dots remain on the screen.	<ul style="list-style-type: none"> • This is due to LCD panel characteristics and is not a failure.
10. Interference patterns or pressure marks remain on the screen.	<ul style="list-style-type: none"> • Leave the monitor with a white or black screen. The symptom may disappear.
11. The display image is appeared in lengthwise.	<ul style="list-style-type: none"> • Check whether the kind of cables connected with the monitor and the PC. (Re-connect the monitor and cables correctly by referring to the Setup Guide.)
12. The adjustment menu does not appear.	<ul style="list-style-type: none"> • Check whether the operation lock function is active. (page 21)
13. The auto-adjustment function does not work correctly.	<ul style="list-style-type: none"> • This function does not work when digital signal is input. • This function works correctly when an image is fully displayed over the display area. It does not work properly when an image is displayed only on a part of the screen (DOS prompt window, for example) or when a black background (wallpaper, etc.) is in use. This function does not work correctly with some graphics boards.
14. No audio output	<ul style="list-style-type: none"> • Check whether the mini jack cable is correctly. • Check whether volume is set to "0". • Check the settings of the PC and the audio playback software.

Chapter 5 Reference

5-1 How to Attach the Optional Arm

An optional arm (or an optional stand) can be attached by removing the stand section. Please refer to our web site for the corresponding optional arm (or optional stand).

<http://www.eizoglobal.com>

[Attaching]

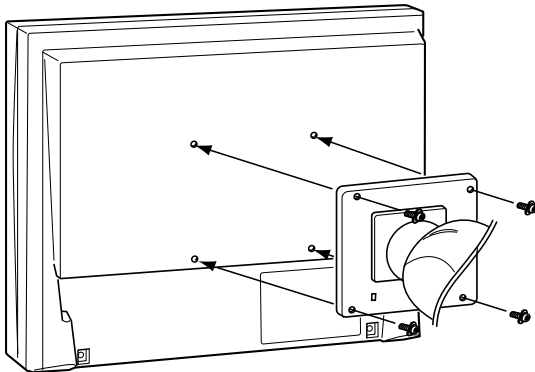
1 Lay the LCD monitor on a soft cloth spread over on a stable surface with the panel surface facing down.

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 M4 × 12 mm screws supplied with the 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 60 degrees, down 45 degrees (horizontal display)
 - Up 45 degrees, down 45 degrees (vertical display, 90 degrees clockwise)
- Connect the cables after attaching an arm or a stand.

5-2 Power Saving Mode

■ Analog input

This monitor complies with the VESA DPMS standard.

[Power Saving System]

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

■ 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

Attention

- Unplugging the power cord completely shuts off power supply to the monitor.
- Power consumption varies even when the stereo mini jack cable is connected.

5-3 Specifications

S1703

LCD Panel		17.0-inch (43 cm) TFT color LCD with Anti-Glare Hard coating, LED backlight Viewing angle: Horizontal 170°, Vertical 160° (CR: 10 or more)
Dot Pitch		0.264 mm
Horizontal Scan Frequency		Analog: 31 - 80 kHz Digital: 31 - 64 kHz
Vertical Scan Frequency		Analog: 50 - 75 Hz (Non-interlace) Digital: 59 - 61 Hz (VGA Text: 69 - 71 Hz) (Non-interlace)
Resolution		1280 dots × 1024 lines
Max. Dot Clock		Analog: 135 MHz Digital: 108 MHz
Max. Display Colors		Approx. 16.77 million colors
Display Area (H × V)		337.9 mm × 270.3 mm
Power Supply		100 - 120 VAC ±10% 50/60 Hz, 0.45 A 200 - 240 VAC ±10% 50/60 Hz, 0.3 A
Power Consumption	Screen Display On	25W or less (Speaker working)
	Power saving mode	0.5W or less (for single signal input, when stereo mini jack cable is not connected, [Input Signal] : "Auto", [SoG] : "Off")
	Power button Off	0.5W or less (when stereo mini jack cable is not connected)
Input Signal Connectors		DVI-D connector, D-sub mini 15-pin connector
Analog Input Signal (Sync)		Separate, TTL, Positive/Negative Sync on Green, 0.3Vp-p, Negative
Analog Input Signal (Video)		Analog, Positive (0.7Vp-p/75Ω)
Digital Signal Transmission System		TMDS (Single Link)
Audio output		Speaker output: 0.5 W + 0.5 W (8 Ω, THD+N: 10% or less) Headphone output: 2mW + 2mW (32 Ω, THD+N: 3% or less)
Line input		Input impedance 47 kΩ (typ.) Input level: 1.0 Vrms (Max.)
Plug & Play		VESA DDC 2B/EDID structure 1.3
Dimensions (Width) × (Height) × (Depth)	Main unit	Tilt Stand : 367 mm (14.4 inch) × 384 mm (15.1 inch) × 188 mm (7.4 inch)
		Height adjustable Stand : 367 mm (14.4 inch) × 391.5 - 491.5 mm (15.4 - 19.4 inch) × 205 mm (8.1 inch)
	Without stand	367 mm (14.4 inch) × 304 mm (12 inch) × 59 mm (2.32 inch)
Mass	Main unit	Tilt Stand : Approx. 4.4 kg (9.7 lbs.)
		Height adjustable Stand : Approx. 5.5 kg (12.1 lbs)
	Without stand	Approx. 3.6 kg (7.9 lbs.)
Movable range	Tilt Stand	Tilt: 30° Up, 5° Down
	Height adjustable Stand	Tilt: 30° Up, 0° Down Swivel: 35° Right, 35° Left Adjustable height: 100 mm (3.9 inch) Rotation: 90° (clockwise)

Environmental Conditions	Temperature	Operating: 5°C to 35°C (41°F to 95°F)
		Transportation/Storage: -20°C to 60°C (-4°F to 140°F)
	Humidity	Operating: 20 % to 80 % R.H. (no condensation)
		Transportation/Storage: 10 % to 90 % R.H. (no condensation)
	Air Pressure	Operating: 700 to 1,060 hPa
		Transportation/Storage: 200 to 1,060 hPa

S1903

LCD Panel		19.0-inch (48 cm) TFT color LCD with Anti-Glare Hard coating, LED backlight Viewing angle: Horizontal 170°, Vertical 160° (CR: 10 or more)
Dot Pitch		0.294 mm
Horizontal Scan Frequency		Analog: 31 - 80 kHz Digital: 31 - 64 kHz
Vertical Scan Frequency		Analog: 50 - 75 Hz (Non-interlace) Digital: 59 - 61 Hz (VGA Text: 69 - 71 Hz) (Non-interlace)
Resolution		1280 dots × 1024 lines
Max. Dot Clock		Analog: 135 MHz Digital: 108 MHz
Max. Display Colors		Approx. 16.77 million colors
Display Area (H × V)		376.3 mm × 301.0 mm
Power Supply		100 - 120 VAC ±10% 50/60 Hz, 0.45 A 200 - 240 VAC ±10% 50/60 Hz, 0.3 A
Power Consumption	Screen Display On	23W or less (Speaker working)
	Power saving mode	0.5W or less (for single signal input, when stereo mini jack cable is not connected, [Input Signal] : "Auto", [SoG] : "Off")
	Power button Off	0.5W or less (when stereo mini jack cable is not connected)
Input Signal Connectors		DVI-D connector, D-sub mini 15-pin connector
Analog Input Signal (Sync)		Separate, TTL, Positive/Negative Sync on Green, 0.3Vp-p, Negative
Analog Input Signal (Video)		Analog, Positive (0.7Vp-p/75Ω)
Digital Signal Transmission System		TMDS (Single Link)
Audio output		Speaker output: 0.5 W + 0.5 W (8 Ω, THD+N: 10% or less) Headphone output: 2mW + 2mW (32 Ω, THD+N: 3% or less)
Line input		Input impedance 47 kΩ (typ.) Input level: 1.0 Vrms (Max.)
Plug & Play		VESA DDC 2B/EDID structure 1.3
Dimensions (Width) × (Height) × (Depth)	Main unit	Tilt Stand : 405 mm (15.9 inch) × 416 mm (16.4 inch) × 205 mm (8.1 inch)
		Height adjustable Stand : 405 mm (15.9 inch) × 406.5 - 506.5 mm (16 - 19.9 inch) × 205 mm (8.1 inch)
	Without stand	405 mm (15.9 inch) × 334 mm (13.1 inch) × 61.5 mm (2.42 inch)
Mass	Main unit	Tilt Stand : Approx. 4.9 kg (10.8 lbs.)
		Height adjustable Stand : Approx. 5.9 kg (13 lbs)
	Without stand	Approx. 4.1 kg (9 lbs.)
Movable range	Tilt Stand	Tilt: 30° Up, 5° Down
	Height adjustable Stand	Tilt: 30° Up, 0° Down Swivel: 35° Right, 35° Left Adjustable height: 100 mm (3.9 inch) Rotation: 90° (clockwise)
Environmental Conditions	Temperature	Operating: 5°C to 35°C (41°F to 95°F)
		Transportation/Storage: -20°C to 60°C (-4°F to 140°F)
	Humidity	Operating: 20 % to 80 % R.H. (no condensation)
		Transportation/Storage: 10 % to 90 % R.H. (no condensation)
	Air Pressure	Operating: 700 to 1,060 hPa
		Transportation/Storage: 200 to 1,060 hPa

S1933

LCD Panel		19.0-inch (48 cm) TFT color LCD with Anti-Glare Hard coating, LED backlight Viewing angle: Horizontal 178°, Vertical 178° (CR: 10 or more)
Dot Pitch		0.294 mm
Horizontal Scan Frequency		Analog: 31 - 80 kHz Digital: 31 - 64 kHz
Vertical Scan Frequency		Analog: 50 - 75 Hz (Non-interlace) Digital: 59 - 61 Hz (VGA Text: 69 - 71 Hz) (Non-interlace)
Resolution		1280 dots × 1024 lines
Max. Dot Clock		Analog: 135 MHz Digital: 108 MHz
Max. Display Colors		Approx. 16.77 million colors
Display Area (H × V)		376.3 mm × 301.0 mm
Power Supply		100 - 120 VAC ±10% 50/60 Hz, 0.45 A 200 - 240 VAC ±10% 50/60 Hz, 0.3 A
Power Consumption	Screen Display On	24W or less (Speaker working)
	Power saving mode	0.5W or less (for single signal input, when stereo mini jack cable is not connected, [Input Signal] : "Auto", [SoG] : "Off")
	Power button Off	0.5W or less (when stereo mini jack cable is not connected)
Input Signal Connectors		DVI-D connector, D-sub mini 15-pin connector
Analog Input Signal (Sync)		Separate, TTL, Positive/Negative Sync on Green, 0.3Vp-p, Negative
Analog Input Signal (Video)		Analog, Positive (0.7Vp-p/75Ω)
Digital Signal Transmission System		TMDS (Single Link)
Audio output		Speaker output: 0.5 W + 0.5 W (8 Ω, THD+N: 10% or less) Headphone output: 2mW + 2mW (32 Ω, THD+N: 3% or less)
Line input		Input impedance 47 kΩ (typ.) Input level: 1.0 Vrms (Max.)
Plug & Play		VESA DDC 2B/EDID structure 1.3
Dimensions (Width) × (Height) × (Depth)	Main unit	Tilt Stand : 405 mm (15.9 inch) × 416 mm (16.4 inch) × 205 mm (8.1 inch)
		Height adjustable Stand : 405 mm (15.9 inch) × 406.5 - 506.5 mm (16 - 19.9 inch) × 205 mm (8.1 inch)
	Without stand	405 mm (15.9 inch) × 334 mm (13.1 inch) × 61.5 mm (2.42 inch)
Mass	Main unit	Tilt Stand : Approx. 4.9 kg (10.8 lbs.)
		Height adjustable Stand : Approx. 5.9 kg (13 lbs)
	Without stand	Approx. 4.1 kg (9 lbs.)
Movable range	Tilt Stand	Tilt: 30° Up, 5° Down
	Height adjustable Stand	Tilt: 30° Up, 0° Down Swivel: 35° Right, 35° Left Adjustable height: 100 mm (3.9 inch) Rotation: 90° (clockwise)
Environmental Conditions	Temperature	Operating: 5°C to 35°C (41°F to 95°F)
		Transportation/Storage: -20°C to 60°C (-4°F to 140°F)
	Humidity	Operating: 20 % to 80 % R.H. (no condensation)
		Transportation/Storage: 10 % to 90 % R.H. (no condensation)
	Air Pressure	Operating: 540 to 1,060 hPa
		Transportation/Storage: 200 to 1,060 hPa

Main default settings (factory settings)

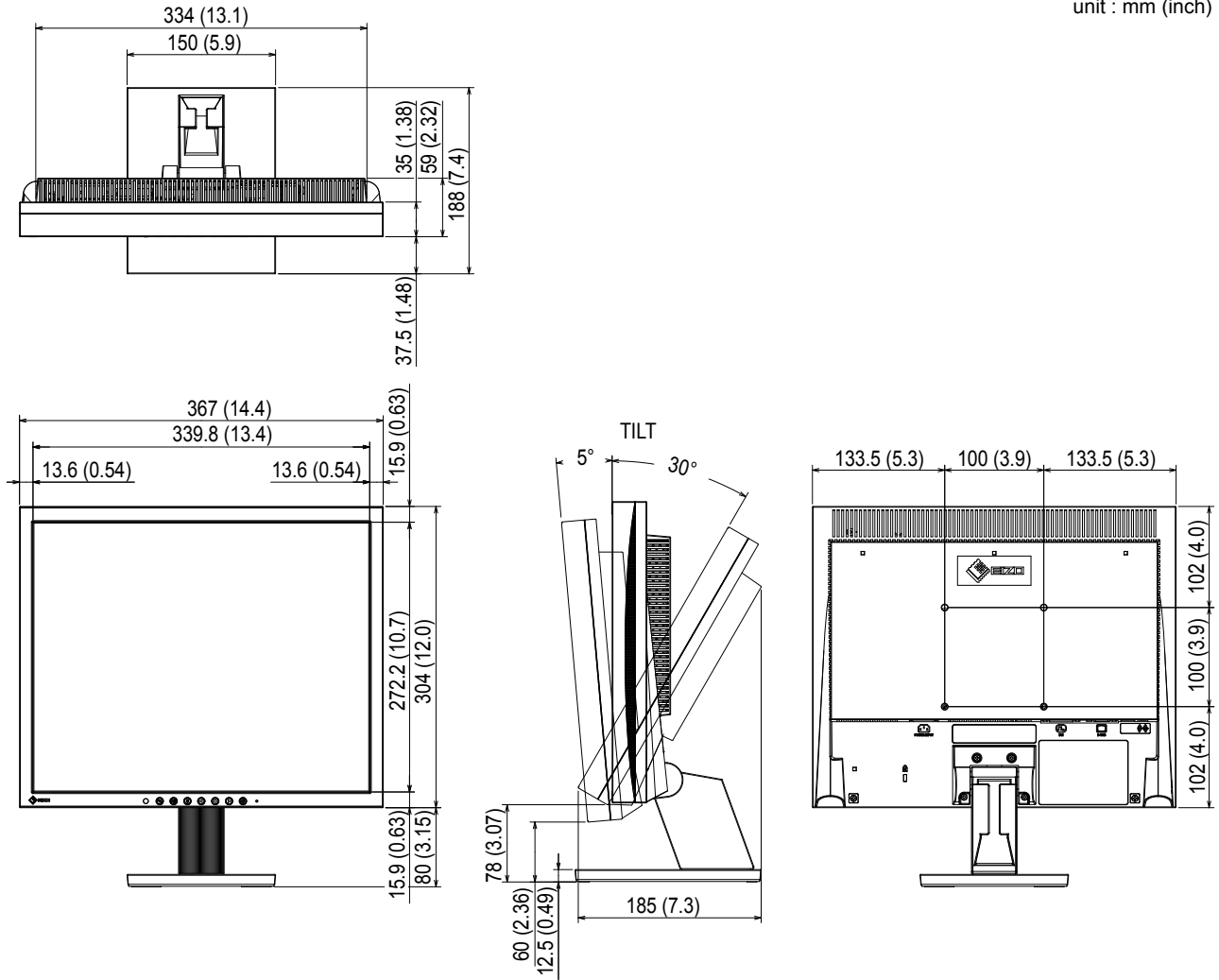
Auto EcoView	On
Smoothing	3
FineContrast Mode	Custom
Input Signal	Auto
Eco Timer	Disable
Language	English

Outside Dimensions

S1703

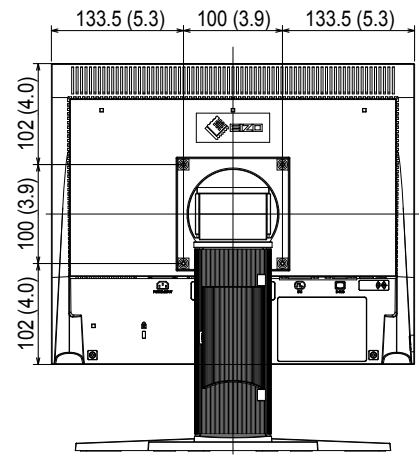
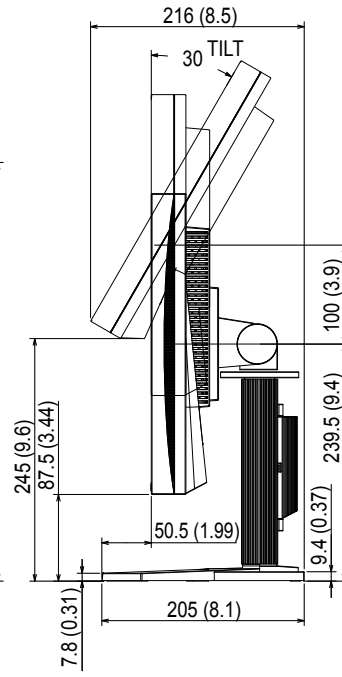
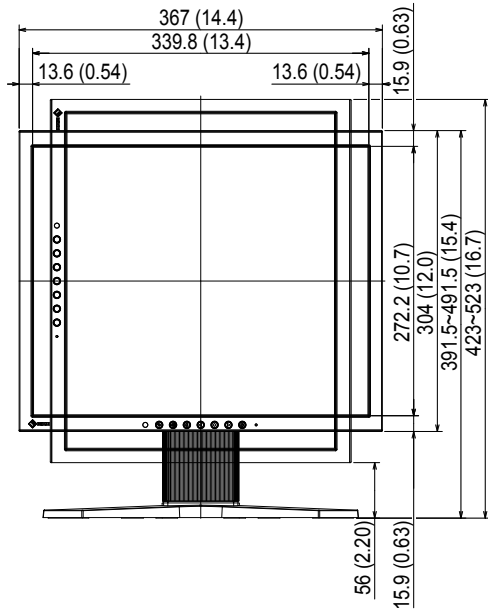
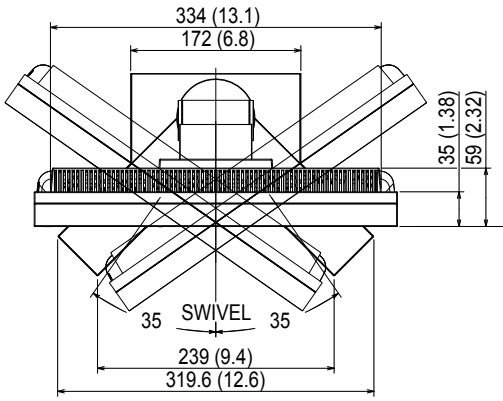
- Tilt Stand

unit : mm (inch)



• Height adjustable Stand

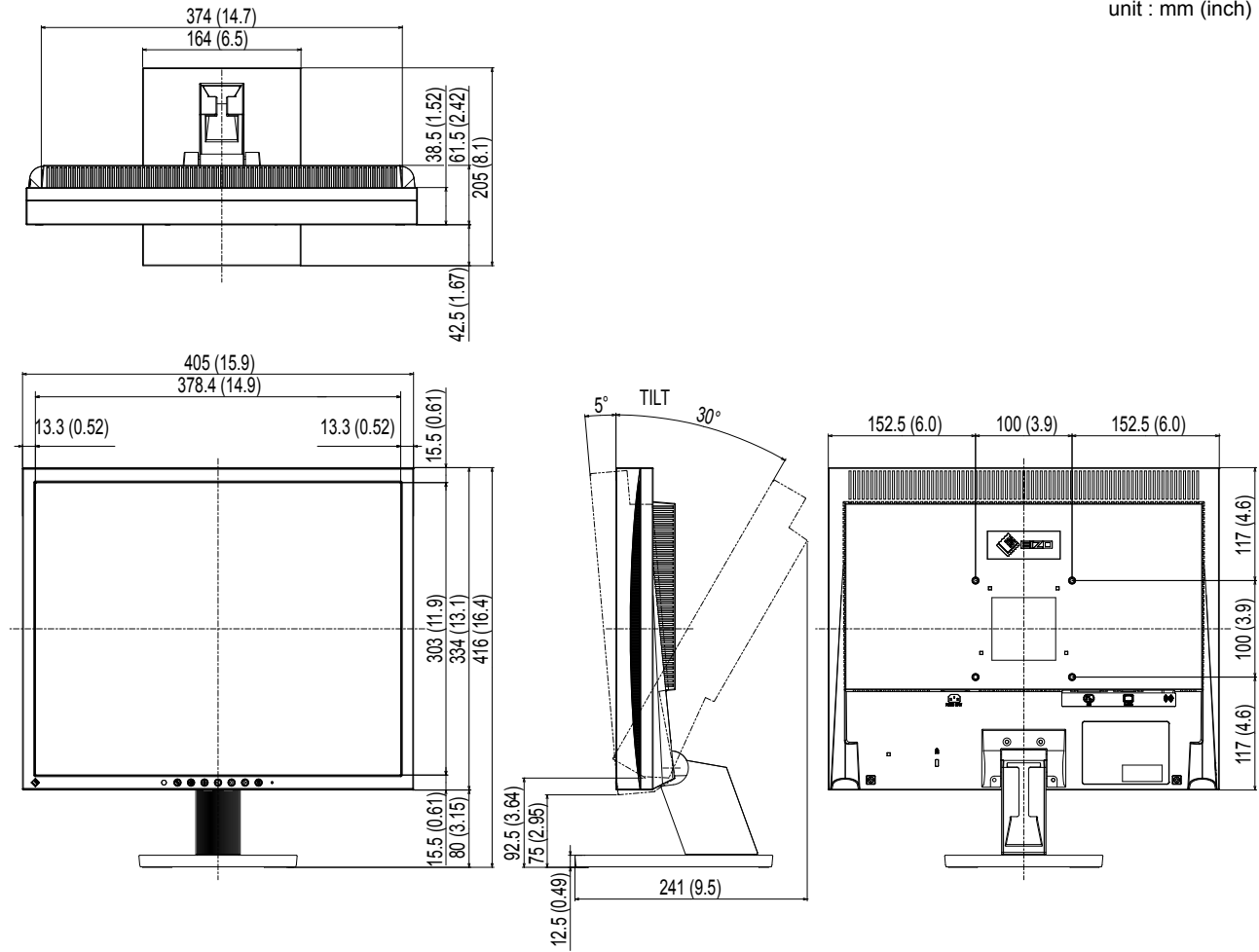
unit : mm (inch)



S1903 / S1933

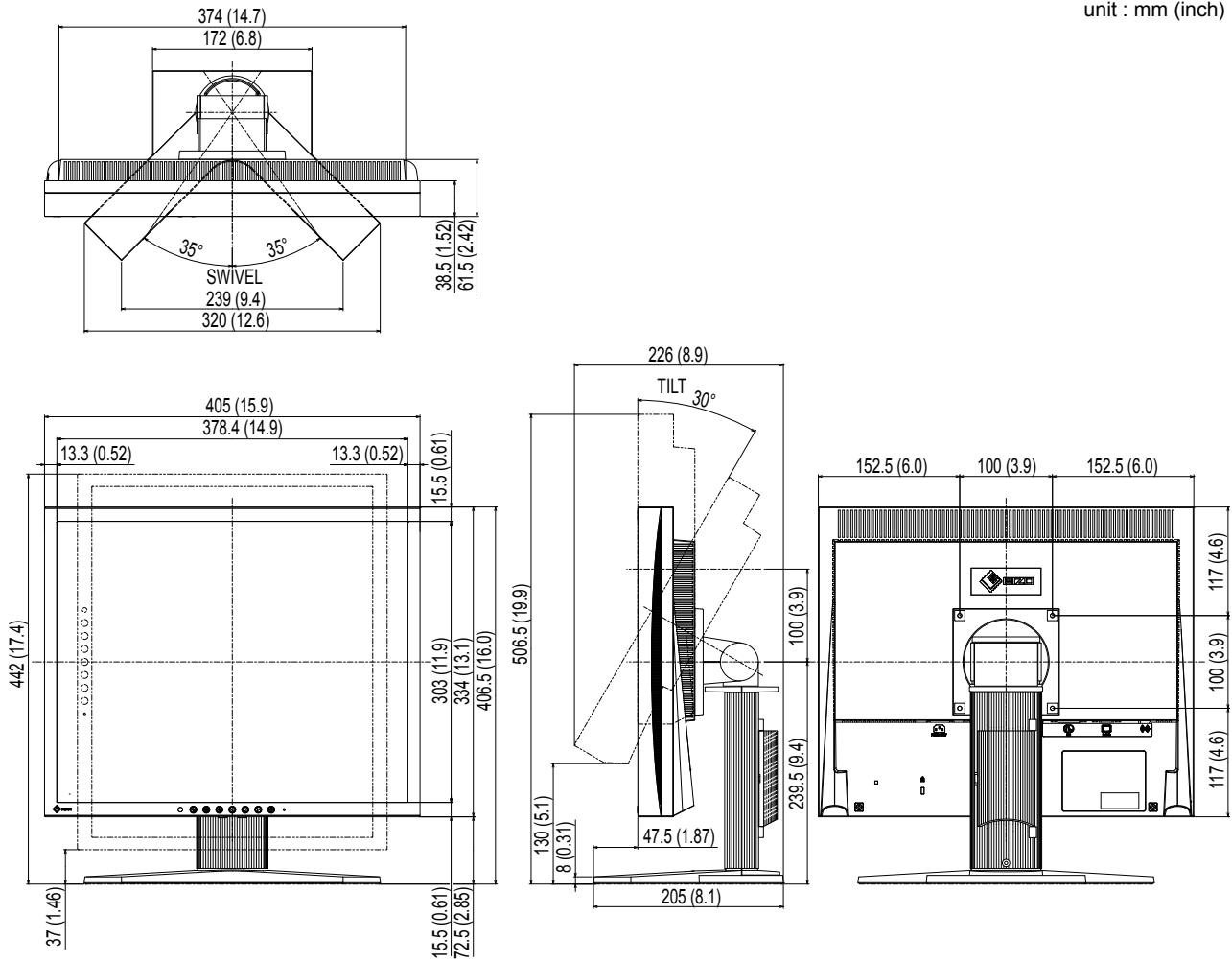
- Tilt Stand

unit : mm (inch)



• Height adjustable Stand

unit : mm (inch)



Option List

Cleaning Kit	EIZO ScreenCleaner
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For the latest information about the accessories, refer to our web site.

<http://www.eizoglobal.com>

5-4 Glossary

Clock

The analog signal input monitor needs to reproduce a clock of the same frequency as the dot clock of the graphics system in use, when the analog 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.

DDC/CI (Display Data Channel/Command Interface)

VESA provides the standardization for the interactive communication of the setting information, etc. between a PC and the monitor.

DICOM (Digital Imaging and Communication in Medicine)

The DICOM standard was developed by the American College of Radiology and the National Electrical Manufacturer's Association of the USA.

The DICOM compatible device connection enables to transfer the medical image and information. The DICOM, Part 14 document defines the digital, grayscale medical image display.

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.

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 horizontal 1280 pixels and 1024 vertical pixels. At a resolution of 1280×1024 , all pixels are illuminated as a full screen (1:1).

sRGB (Standard RGB)

International standard for color reproduction and color space among peripheral devices (such as monitors, printers, digital cameras, scanners). As a form of simple color matching for the Internet, colors can be displayed using tones close to those of the transmission and reception devices.

Sync-on-Green

A composite horizontal and vertical signal sync for the green signal in RGB. Typically, monitors use 5 signals, one for red, green and blue, and one for each horizontal and vertical sync. Sync-on-green monitors utilize three connections, one for red, one for blue and two synced horizontal and vertical signals that are counted as one green video signal.

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.

5000 K: Slightly reddish white

6500 K: White referred to as daylight-balanced color

9300 K: Slightly bluish white

TMD5 (Transition Minimized Differential Signaling)

A signal transmission system for digital interface.

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

VESA specifications achieve increased energy efficiency for computer monitors. This involves standardization of signals sent from the computer (graphics board).

DPM defines the status of signals transmitted between the computer and monitor.

5-5 Preset Timing

The following table shows factory preset analog signal timing.

Mode	Dot clock		Frequency		Polarity
			Horizontal: kHz	Vertical: Hz	
VGA 640×480@60Hz	25.2 MHz	Horizontal	31.47	Negative	
		Vertical	59.94	Negative	
VGA TEXT 720×400@70Hz	28.3 MHz	Horizontal	31.47	Negative	
		Vertical	70.09	Positive	
VESA 640×480@75Hz	31.5 MHz	Horizontal	37.50	Negative	
		Vertical	75.00	Negative	
VESA 800×600@60Hz	40.0 MHz	Horizontal	37.88	Positive	
		Vertical	60.32	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@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	

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.

Appendix

ENERGY STAR (S1903 / S1933)

As an ENERGY STAR Partner, EIZO Corporation has determined that this product meets the ENERGY STAR guidelines for energy efficiency.



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: FlexScan S1703/S1903/S1933

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.

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

EIZO and Distributors will cease to hold or store any parts (excluding design parts) of the Product upon expiration of seven (7) years after the production of the product is discontinued. In repairing the monitor, EIZO and Distributors will use renewal parts which comply with our QC standards. If the unit cannot be repaired due to its condition or the stockout of a relevant part, EIZO and Distributors may offer the replacement by a product with equivalent performance instead of repairing it.

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

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

- (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 the sensor;
- (d) 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.);
- (e) Any defect of the Product caused by external equipment;
- (f) Any defect of the Product on which the original serial number has been altered or removed;
- (g) 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
- (h) 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.

Recycling Information

This product, when disposed of, is supposed to be collected and recycled according to your country's legislation to reduce environmental burden. When you dispose of this product, please contact a distributor or an affiliate in your country.

The contact addressees are listed on the EIZO website below.

<http://www.eizoglobal.com>

For recycling information for customers in Switzerland, please refer to the following website.

<http://www.swico.ch>

For customers in the United States, a free take-back program for the product and packaging materials is available. Please refer to the following website for details.

<http://www.eizo.com/warranty/recycling/>

Informationen zum Thema Recycling

Dieses Produkt muss gemäß den Vorschriften Ihres Landes zur Entlastung der Umwelt recyclet werden. Wenden Sie sich bei der Entsorgung dieses Produkts an einen Verteiler oder eine Tochtergesellschaft in Ihrem Land.

Die Adressen zur Kontaktaufnahme sind auf der unten angegebenen Website von EIZO aufgeführt.

<http://www.eizoglobal.com>

Kunden in der Schweiz entnehmen Informationen zum Recycling der folgenden Website:

<http://www.swico.ch>

Informations sur le recyclage

Ce produit doit être jeté aux points de collecte prévus à cet effet et recyclé conformément à la législation de votre pays, afin de réduire l'impact sur l'environnement. Lorsque vous jetez ce produit, veuillez contacter un distributeur ou une société affiliée de votre pays.

Les adresses des distributeurs sont répertoriées sur le site Web EIZO ci-dessous.

<http://www.eizoglobal.com>

Pour les clients en Suisse, veuillez consulter le site Web suivant afin d'obtenir des informations sur le recyclage.

<http://www.swico.ch>

Información sobre reciclaje

Este producto debe desecharse y reciclarse según la legislación del país para reducir el impacto medioambiental. Cuando desee deshacerse de este producto, póngase en contacto con un distribuidor o una filial de su país.

Encontrará las direcciones de contacto en el sitio web de EIZO que se indica a continuación.

<http://www.eizoglobal.com>

Informazioni sul riciclaggio

Per lo smaltimento e il riciclaggio del presente prodotto, attenersi alle normative vigenti nel proprio paese per ridurre l'impatto ambientale. Per lo smaltimento, rivolgersi ad un distributore o un affiliato presenti nel proprio paese.

Gli indirizzi sono elencati nel sito Web EIZO riportato di seguito.

<http://www.eizoglobal.com>

Per informazioni sul riciclaggio per i clienti in Svizzera, consultare il sito Web riportato di seguito.

<http://www.swico.ch>

Återvinningsinformation

När denna produkt kasseras ska den hanteras och återvinnas enligt landets föreskrifter för att reducera miljöpåverkan. När du kasserar produkten ska du kontakta en distributör eller representant i ditt land. Kontaktadresserna listas på EIZO-webbplatsen nedan.
<http://www.eizoglobal.com>

Πληροφορίες ανακύκλωσης

Το προϊόν αυτό, όταν απορρίπτεται, πρέπει να συλλέγεται και να ανακυκλώνεται σύμφωνα με τη νομοθεσία της χώρας σας έτσι ώστε να μην επιβαρύνει το περιβάλλον. Για να απορρίψετε το προϊόν, επικοινωνήστε με έναν αντιπρόσωπο ή μια θυγατρική εταιρεία στη χώρα σας.
Οι διευθύνσεις επικοινωνίας αναγράφονται στην τοποθεσία web της EIZO παρακάτω.
<http://www.eizoglobal.com>

Сведения по утилизации

По истечении срока службы данного продукта его следует принести на сборный пункт и утилизировать в соответствии с действующими предписаниями в вашей стране, чтобы уменьшить вредное воздействие на окружающую среду. Прежде чем выбросить данный продукт, обратитесь к дистрибьютору или в местное представительство компании в вашей стране.
Контактные адреса можно найти на веб-узле EIZO.
<http://www.eizoglobal.com>

Informatie over recycling

Wanneer u dit product wilt weggoeien, moet het uit milieu-overwegingen worden verzameld en gerecycled volgens de betreffende wetgeving van uw land. Wanneer u dit product wilt weggoeien, moet u contact opnemen met een distributeur of een partner in uw land.
De contactadressen worden vermeld op de volgende EIZO-website.
<http://www.eizoglobal.com>

Informação sobre reciclagem

Este produto, quando o deitar fora, deve ser recolhido e reciclado de acordo com a legislação do seu país para reduzir a poluição. Quando deitar fora este produto, contacte um distribuidor ou uma filial no seu país. Os endereços de contacto estão listados no website do EIZO, abaixo.
<http://www.eizoglobal.com>

Oplysninger om genbrug

Dette produkt forventes ved bortskaffelse at blive indsamlet og genbrugt i overensstemmelse med lovgivningen i dit land for at reducere belastningen af miljøet. Når du bortskaffer denne produkt, skal du kontakte en distributør eller et tilknyttet selskab i dit land.
Adresserne på kontaktpersonerne er angivet på EIZO's websted nedenfor.
<http://www.eizoglobal.com>

Kierrätystä koskevia tietoja

Tuote tulee hävittää kierrättämällä maan lainsäädännön mukaisesti ympäristön kuormittumisen vähentämiseksi. Kun hävität tuotteen, ota yhteyttä jälleenmyyjään tai tytäryhtiöön maassasi.
Yhteystiedot löytyvät EIZOn Internet-sivustolta.
<http://www.eizoglobal.com>

Wykorzystanie surowców wtórnych

Ten produkt po zużyciu powinien być zbierany i przetwarzany zgodnie z krajowymi przepisami dotyczącymi ochrony środowiska. Wyrzucając ten produkt, należy skontaktować się z lokalnym dystrybutorem lub partnerem. Adresy kontaktowe można znaleźć we wskazanej poniżej witrynie internetowej firmy EIZO.
<http://www.eizoglobal.com>

Informace o recyklaci

Při likvidaci produktu musí být produkt vyzvednut a recyklován podle zákonů příslušné země, aby nedocházelo k zatěžování životního prostředí. Zbavujete-li se produktu, kontaktujte distributora nebo pobočku ve své zemi. Kontaktní adresy jsou uvedeny na následující webové stránce společnosti EIZO.
<http://www.eizoglobal.com>

Ringlussevõtu alane teave

Keskkonnakoormuse vähendamiseks tuleks kasutatud tooted kokku koguda ja võtta ringlusse vastavalt teie riigi seadustele. Kui kõrvaldate käesoleva toote, võtke palun ühendust turustaja või filiaaliga oma riigis. Kontaktisikud on toodud EIZO veebilehel järgmisel aadressil:
<http://www.eizoglobal.com>

Újrahasznosítási információ

Jelen terméket, amikor eldobjuk, az illető ország törvényei alapján kell összegyűjteni és újrahasznosítani, hogy csökkentsük a környezet terhelését. Amikor ezt a terméket eldobja, kérjük lépjen kapcsolatba egy országon belüli forgalmazóval vagy társvállalkozással.
A kapcsolat címei az EIZO alábbi weboldalán található felsorolva:
<http://www.eizoglobal.com>

Podatki o recikliranju

Ob koncu uporabe odslužen izdelek izročite na zbirno mesto za recikliranje v skladu z okoljevarstveno zakonodajo vaše države. Prosimo, da se pri odstranjevanju izdelka obrnete na lokalnega distributerja ali podružnico.
Kontaktne naslovi so objavljeni na spodaj navedenih spletnih straneh EIZO:
<http://www.eizoglobal.com>

Informácie o recyklácii

Pri likvidácii musí byť tento výrobok recyklovaný v súlade s legislatívou vašej krajiny, aby sa znížilo zaťaženie životného prostredia. Keď sa chcete zbaviť tohto výrobku, kontaktujte prosím distribútora alebo pobočku vo vašej krajine.
Zoznam kontaktných adries je uvedený na nasledovnej webovej stránke firmy EIZO:
<http://www.eizoglobal.com>

Pārstrādes informācija

Utilizējot šo produktu, tā savākšana un pārstrāde veicama atbilstoši jūsu valsts likumdošanas prasībām attiecībā uz slodzes uz vidi samazināšanu. Lai veiktu šī produkta utilizāciju, sazinieties ar izplatītāju vai pārstāvniecību jūsu valstī.
Kontaktadrese ir norādītas zemāk minētajā EIZO tīmekļa vietnē.
<http://www.eizoglobal.com>

Informacija apie gražinamąjį perdirbimą

Šalinant (išmetant) šiuos gaminius juos reikia surinkti ir perdirbti gražinamuoju būdu pagal jūsų šalies teisės aktus, siekiant sumažinti aplinkos teršimą. Kai reikia išmesti šį gaminį, kreipkitės į jūsų šalyje veikiančią gaminių pardavimo atstovybę arba jos filialą.

Kontaktiniai adresatai nurodyti EIZO interneto svetainėje.

<http://www.eizoglobal.com>

Информация относно рециклиране

При изхвърлянето на този продукт се предлага събирането и рециклирането му съобразно законите на вашата страна за да се намали замърсяването на околната среда. Когато искате да се освободите от този продукт, моля свържете се с търговския му представител или със съответните органи отговарящи за това във вашата страна.

Данните за връзка с нас са описани на следния Интернет сайт на EIZO:

<http://www.eizoglobal.com>

Informație referitoare la reciclare

Acest produs, când debarasat, trebuie colectat și reciclat conform legislației țării respective ca să reducem sarcina mediului. Când se debarasează de acest produs, vă rugăm să contactați un distribuitor sau un afiliat al țării respective.

Adresele de contact le găsiți pe pagina de web al EIZO:

<http://www.eizoglobal.com>

معلومات عن إعادة التدوير

عند التخلص من هذا المنتج، من الضروري تجميعه وإعادة تدويره وفقاً للقوانين المتبعة في بلدك لتقليل العبء المسلط على البيئة. عندما تتخلص من هذا المنتج، يرجى الاتصال بموزع أو طرف متنسب إليه في بلدك. عناوين الاتصال مدرجة في موقع ايزو EIZO ادناه على شبكة الانترنت.

<http://www.eizoglobal.com>

Geri Dönüşüm Bilgisi

Bu ürünün, atılacağı zaman, ülkenizin çevre kirliliğinin azaltılması konusundaki mevzuatına göre toplanması ve yeniden değerlendirilmesi gerekmektedir. Ürünü atacağınız zaman lütfen ülkenizdeki bir distribütör veya ilgili kuruluşla temasa geçiniz.

İrtibat adresleri aşağıdaki EIZO web sitesinde verilmiştir.

<http://www.eizoglobal.com>

