

User's Manual

FlexScan[®] T1721

Touch Panel Color LCD Monitor

Important

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

-
- Please read the Setup Manual (separate volume).
 - The latest User's Manual is available for download from our site:
<http://www.eizo.com>
-



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



Product specification may vary with sales areas.

Confirm the specification in the manual written in language of the region of purchase.

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Notice for this monitor

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

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 for power cords and signal cables specified by us.

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.

In order to suppress the luminosity change by long-term use and to maintain the stable luminosity, use of a monitor in lower brightness is recommended.

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](#)” on the next page.)

The LCD panel is manufactured using high-precision technology. However, missing pixels or lit pixels may appear on the LCD panel, this is not malfunction.

Percentage of effective pixels : 99.9994% or higher.

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

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

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

Cleaning

Attention

- Never use any solvents or chemicals, such as thinner, benzene, wax, alcohol, and abrasive cleaner, which may damage the cabinet or panel.
 - Do not soak liquid into the clearance between the panel and the panel frame.
-

NOTE

- Optional ScreenCleaner is recommended for cleaning the panel surface.
-

[Panel]

- Clean the panel with a soft cloth such as cotton cloth or lens cleaning paper.
- Remove persistent stains gently with a cloth dampened with little water, and then clean the panel again with a dry cloth for better finishing.

[Cabinet]

Clean the cabinet with a soft cloth dampened with little mild detergent.

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.

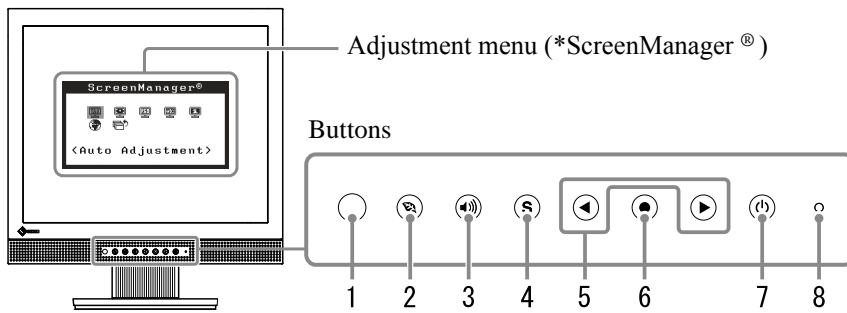
1-1 Features

- 17-inch screen
- Applicable to the resolution of 1280 × 1024
- Touch Panel provided
 - Surface Acoustic Wave technology
 - A highly durable and transmissible touch panel with accurate touch positions making operations using gloves possible.
- Stereo speakers
- Power saving function
 - Suppressing the power consumption*¹ 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.
 - 2-10 “Setting On/Off for the automatic brightness adjustment function [Auto EcoView]” (page 17)
 - 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.
 - 2-11 “Displaying the level of power saving by EcoView Index” (page 17)
- FineContrast function to allow the best mode for screen display
 - “To select the display mode (FineContrast mode)” (page 14)
- The ArcSwing 2 Stand enables to adjust the monitor height and monitor angle freely

NOTE

- The stand of the unit can be replaced with an arm or another stand. (Refer to “5-1 Attaching an Arm” on page 22.)

1-2 Buttons and Indicators



1. Sensor (Auto EcoView)
2. EcoView button
3. Volume control button
4. Input signal selection button
5. Control buttons (Left, Right)
6. Enter button
7. Power button
8. Power indicator

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

* ScreenManager® is an EIZO's nickname of the Adjustment menu.

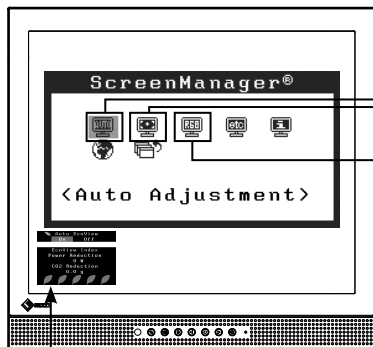
NOTE

- While the screen is displayed, the blue power indicator that is lighting blue can be turned off (see "To turn off the Power indicator while a screen is displayed [Power Indicator]" on [page 16](#)).

1-3 Functions and Basic Operation

To adjust the screen and color

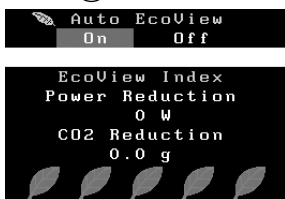
● Main menu (Refer to [page 9](#) for operation)



- 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 17](#)
1 Press .
2 Change "On" and "Off" with or .
- Displaying the level of power saving by EcoView Index see [page 17](#)
Press to display the level of power saving mode.

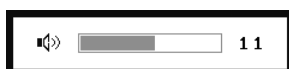


Brightness Adjustment

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 11



- To adjust flickering and position
[Screen]..... see [page 11](#)
- To adjust color gradation automatically
[Range] see [page 13](#)



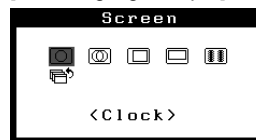
2 Screen Adjustment (Advanced Adjustment)

Page 12

[Adjustment menu]

[At analog signal input]

[At digital signal input]



- To eliminate vertical bars [Clock*] ... see [page 12](#)
 - To remove flickering or blurring
[Phase*]..... see [page 12](#)
 - To correct screen position
[Hor. Position*] see [page 13](#)
[Ver. Position*] see [page 13](#)
 - To modify blurred characters/lines
[Smoothing] see [page 13](#)
- * Items marked with * can be adjusted with analog input.

Color Adjustment

Page 14



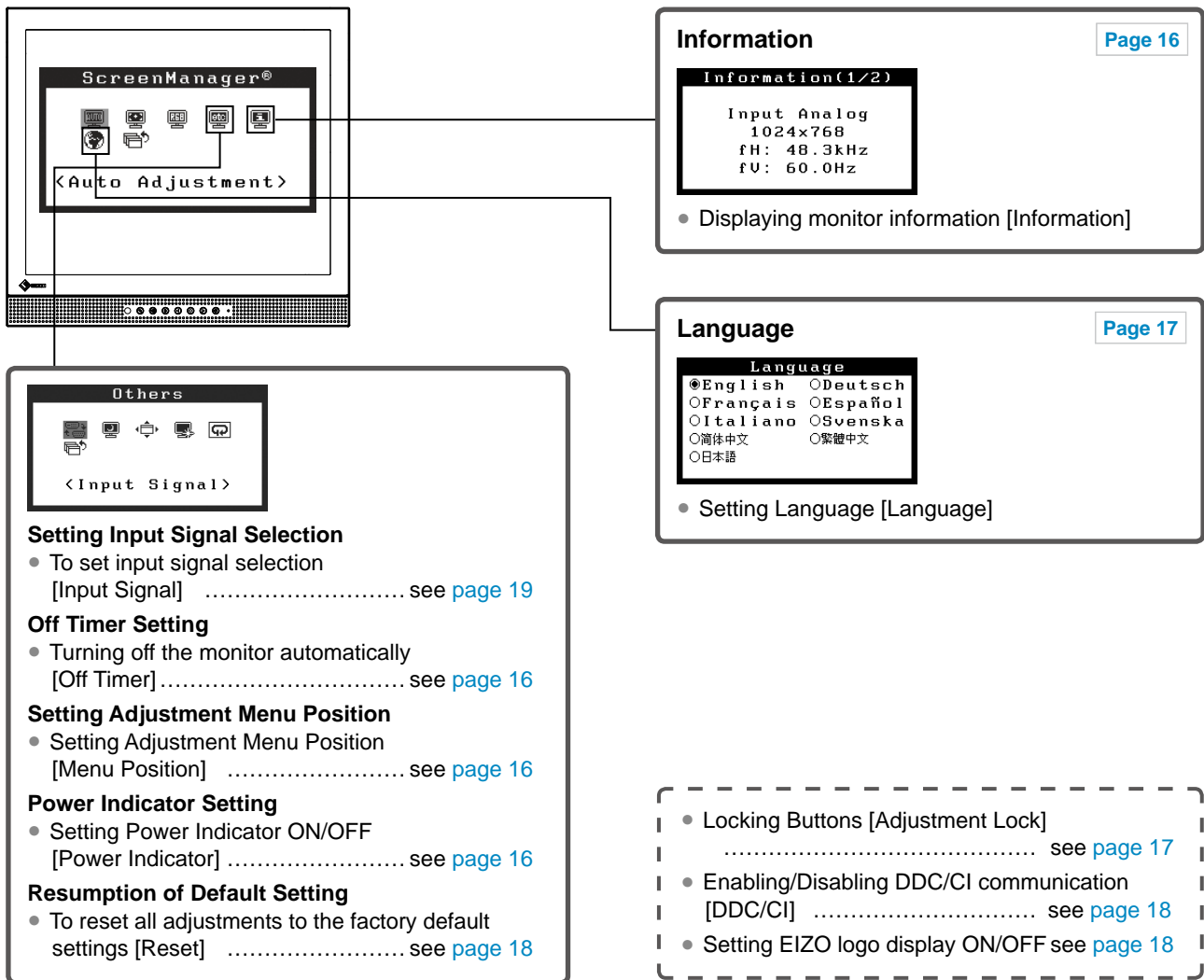
- To select the display mode (FineContrast mode) see [page 14](#)
- "Brightness," "Contrast," "Temperature," "Gamma," and "Gain" can be set for each mode (Custom/sRGB/Text).
Settable functions vary with the display mode.

Resumption of Default Setting

- To reset color adjustment values
[Reset] see [page 18](#)

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 Setting Screen Resolution

Compatible Resolutions/Frequencies

For details on compatible resolutions, refer to “Compatible Resolutions/Frequencies” in the Setup Manual.

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 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, select the “Monitor” tab and select desired resolution in the “Resolution” field.
5. Click the [OK] button.
6. When a confirmation dialog 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 is displayed, click the “Settings” tab and select desired resolution for “Screen resolution” under “Display”.
4. Click the [OK] button to close the dialog.

2-2 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 a touch panel driver and User's Manual. Refer to “Readme.txt” on the disk for software startup procedures or file access procedures.

Item	Overview	OS
A “Readme.txt” file		
Screen adjustment pattern files	Used when adjusting the image of the analog signal input manually.	
Touch Panel Driver	Driver for touch panel	Windows XP/Vista
User's Manual of this monitor (PDF file)		
Installation Guide for Touch Panel Driver (PDF file)		

2-3 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]”. When performing more advanced adjustment, see “2-4 Color Adjustment” (page 14) 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 auto adjustment function works when filling/satisfying all of the following conditions

- 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 auto adjustment, perform the screen adjustments 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 <Screen> 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]”.

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.)

Attention

- 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.

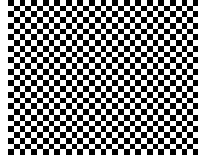
NOTE

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

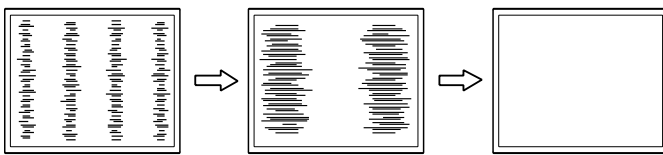
If the screen is not displayed correctly even after adjusting in step 3 above, perform the adjustments according to the procedures on the following pages. When the screen is displayed correctly, go to step 5 “To adjust color gradation automatically [Range]”.

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]**

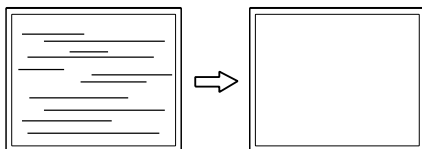
- (1) Choose <Clock> from the <Screen> menu, and press .
The <Clock> menu appears.
- (2) Adjust the clock with or , and press .
The adjustment is completed.



- **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 [Phase] 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].” (Clock → Phase → Position)

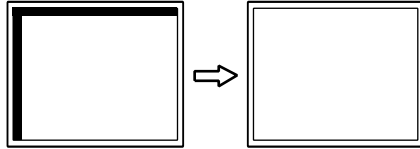
- **To correct screen position**
[Hor. Position], [Ver. Position]

(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.

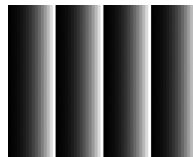



5 Adjust the color gradation.




- **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 .

The output range is adjusted automatically.


(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 .

The <Smoothing> menu appears.

(2) Adjust the characters/lines with  or , and press .

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.






2-4 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.
sRGB	Suitable for color matching with sRGB compatible peripherals.
Text	Suitable for displaying texts for word processing or spreadsheets.

- (1) Choose <Color> from the Adjustment menu, and press .
- (2) Choose <Color Mode> from the <Color> menu, and press .
The <Color Mode> menu appears.
- (3) 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	sRGB	Text
	Brightness	√	√	√	√
	Contrast	√	–	–	√
	Temperature	√	√	–	√
	Gain	√	√	–	–
	Reset	√	√	√	√

Menu	Description	Adjustment range
Brightness 	To adjust the full screen brightness as desired	0 to 100%
	NOTE <ul style="list-style-type: none"> You can also adjust the brightness by pressing ◀ or ▶ button while the adjustment menu is not displayed. Press ● after adjustment. 	
Contrast 	To adjust the contrast of the image	0 to 100%
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.
	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". 	
Reset 	To reset the color settings of the selected FineContrast mode to the default settings	

• To set/adjust color

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








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" on page 13.)
- 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.

2-5 Turning off the monitor automatically [Off Timer]






This function allows you to switch the setting to turn off the monitor automatically after a specified time has passed at 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 <Off Timer> from the <Others> menu, and press .
The <Off 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.






2-6 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.

2-7 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.



2-8 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

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.

2-9 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.


2-10 Setting On/Off for the automatic brightness adjustment function [Auto EcoView]

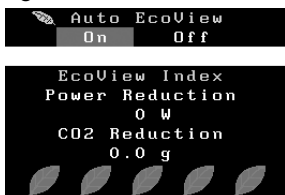
The sensor on the front side of the monitor detects the environmental brightness to adjust the screen brightness automatically and comfortably by using the Auto EcoView function.

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

2-11 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.



2-12 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.

Each time you perform the above operations, the Lock and Unlock setting changes.

• To lock all operations

- (1) Press  to turn on the monitor.
- (2) Hold down the  button and press the  button.
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.




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 value (0.000555 t -CO2/kWh) determined by a ministerial ordinance (2006, Ministry of Economy, Trade and Industry, Ministry of Environment, civil code article 3) and may differ depending on country and year.

2-13 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.

2-14 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.

2-15 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

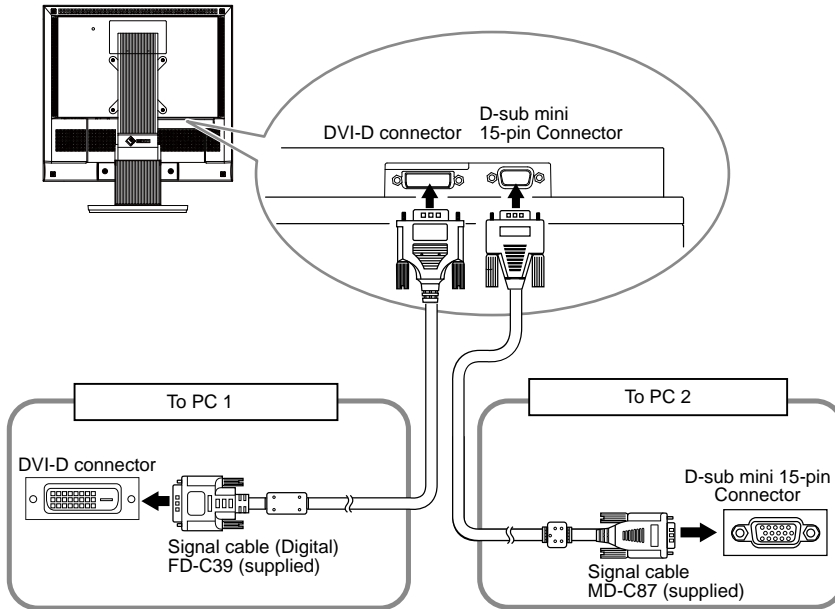
- For default settings, refer to “Main default settings (factory settings)” on [page 25](#).

Chapter 3 Connecting Cables

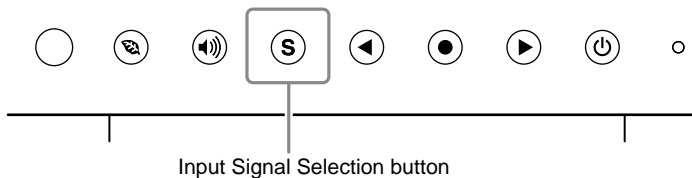
3-1 Connecting Two PCs to the Monitor

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



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 an active input signal with (S) .

[Procedure]

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

Attention

- The touch panel monitor is designed to use connecting to one PC. If connecting two PCs, connect the touch panel monitor to one PC only (touch operation side) with a USB cable (MD-C93) or RC-232C cable (FD-C38-K).
- Do not use the Dual Link cable.



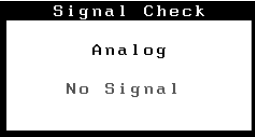
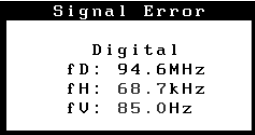




NOTE

- 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.

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 → See No.3 - No.11.
- Other problems → See No.12 - No.13.
- Touch panel problems → See No.14 - No.15.

Problems	Possible cause and remedy
<p>1. No picture</p> <ul style="list-style-type: none"> • Power indicator does not light. • Power indicator is lighting blue. • Power indicator is lighting orange. 	<ul style="list-style-type: none"> • Check whether the power cord is connected correctly. • Press . • Set each adjusting value in <Brightness>, <Contrast> and <Gain> to higher level. (page 15) • Switch the input signal with . • Operate the mouse or keyboard. • Touch the panel surface. • 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.  <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> <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 . • Select an appropriate display mode using the graphics board's utility software. Refer to the manual of the graphics board for details. 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 12)
<p>5. Whole screen is flickering or blurring.</p> 	<ul style="list-style-type: none"> • Adjust using <Phase>. (page 12)
<p>6. Characters are blurred.</p>	<ul style="list-style-type: none"> • Adjust using <Smoothing>. (page 13)

Problems	Possible cause and remedy
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 fixed life span. When the screen becomes dark or begins to flicker, contact your local dealer.) Turn on the Auto EcoView function. (see page 17) 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. 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. (Connect the monitor and cables correctly by referring to "Connecting Cables" in Setup Manual (page 3).)
11. The adjustment menu does not appear.	<ul style="list-style-type: none"> Check whether the operation lock function works. (page 17)
12. 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. <p>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.</p> <p>This function does not work correctly with some graphics boards.</p>
13. No audio output	<ul style="list-style-type: none"> Check whether volume is set to "0". Check the settings of the PC and the audio playback software.

Touch panel problems

Problems	Possible cause and remedy
14. Cursor position is not correct. / Cursor jumps.	<ul style="list-style-type: none"> Turn off and on the monitor. If the symptom is not improved, perform the calibration on the monitor. Touch with one finger only.
15. No touch sound.	<ul style="list-style-type: none"> The touch sound may not be output from the external line out of the PC depending on the hardware configuration.

Chapter 5 Reference

5-1 Attaching an Arm

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

[Attaching]

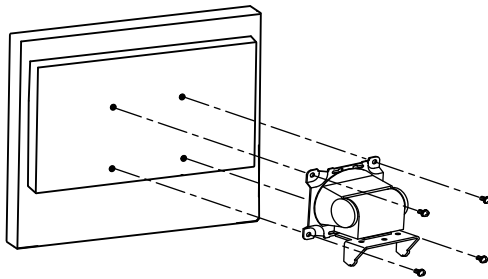
1 Lay the LCD monitor on a soft cloth spread over on a stable surface with the panel surface facing down.

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)
- 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

[Resumption Procedure]

- Touch the panel surface, or operate the keyboard or the mouse.

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.

Attention

- Depending on the hardware configuration of the PC, the monitor may not be resumed from the standby status by the touch operation.
- If the PC does not resume from the standby status, even when the mouse or the keyboard is operated, press the power button of the PC.

5-3 Specifications

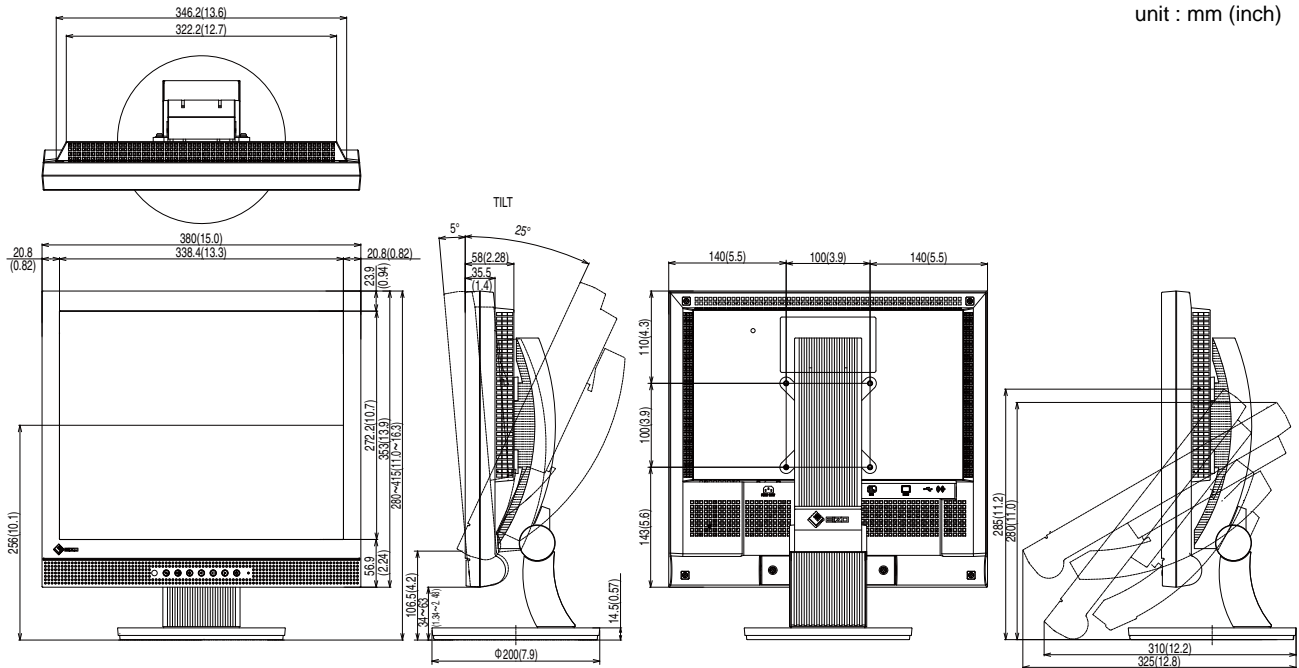
LCD Panel		17-inch (43 cm) TFT color LCD with anti-glare hard coating Viewing angle: Horizontal 160°, Vertical 160° (CR: 10 or more)
Dot Pitch		0.264 mm
Horizontal Scan Frequency		Analog: 24.8 - 80 kHz Digital: 31 - 64 kHz
Vertical Scan Frequency		Analog: 50 - 75 Hz (Non-interlace) Digital: 59 - 61 Hz, (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
Touch Panel	OS	Microsoft Windows XP Service Pack 3 (32 bit) Microsoft Windows Vista Service Pack2 (32 bit) (Not compatible with Mac OS)
	Communication protocol	USB
	Detective method	Surface Acoustic Wave technology
Power Supply		100 - 120 VAC ±10% 50/60 Hz, 0.6 A 200 - 240 VAC ±10% 50/60 Hz, 0.35 A
Power Consumption	Screen Display On	34W or less (with USB load, Speaker working) 31W or less (without USB load, Speaker not working)
	Power saving mode	2.6W or less (for D-Sub single signal input, with USB load, when stereo mini jack cable is not connected) 0.7W or less (for D-Sub single signal input, without USB load, when stereo mini jack cable is not connected)
	Power button Off	0.6W or less
Input Signal Connectors		DVI-D connector, D-sub mini 15-pin connector
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: 15)
Audio output		Speaker output: 0.5 W + 0.5 W (8 Ω, THD: 10% or less)
Line input		Input impedance 39 kΩ (typ.) Input level: 2.0 Vrms (Max.)
Plug & Play		VESA DDC 2B/EDID structure 1.3
Dimensions (Width) × (Height) × (Depth)	Main unit	380 mm × 280 - 415 mm × 200 - 335 mm (15.0" × 11.0" - 16.3" × 7.9" - 13.2")
	Main unit (without stand)	380 mm × 353 mm × 58 mm (15.0" × 13.9" × 2.28")
Mass	Main unit	Approx. 7.0 kg (15.4 lbs)
	Main unit (without stand)	Approx. 5.2 kg (11.5 lbs)
Movable range		Tilt: 60° Up, -5° Down Adjustable height: 104 mm (4.1 inch)
Environmental Conditions	Temperature	Operating temperature: 0 °C - 35 °C Storage temperature: -20 °C - 60 °C
	Humidity	Operating humidity: 20% - 80% R.H. (no condensation) Storage humidity: 10% - 80% R.H. (no condensation)
	Pressure	Operating: 700 to 1,060 hPa Storage: 200 to 1,060 hPa

Main default settings (factory settings)

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

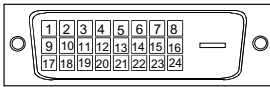
Outside Dimensions

unit : mm (inch)



Connector Pin Assignment

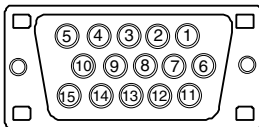
- DVI-D connector



Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	TMDS Data 2-	9	TMDS Data1-	17	TMDS Data 0-
2	TMDS Data 2+	10	TMDS Data1+	18	TMDS Data 0+
3	TMDS Data2/4 Shield	11	TMDS Data1/3 Shield	19	TMDS Data 0/5 Shield
4	NC*	12	NC*	20	NC*
5	NC*	13	NC*	21	NC*
6	DDC Clock (SCL)	14	+5V Power	22	TMDS Clock shield
7	DDC Data (SDA)	15	Ground (return for +5V, Hsync and Vsync)	23	TMDS Clock+
8	NC*	16	Hot Plug Detect	24	TMDS Clock-

(NC*: No Connection)

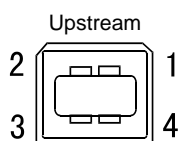
- D-sub mini 15-pin connector



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

(NC*: No Connection)

- USB port



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

Option List

Cleaning Kit	EIZO ScreenCleaner
Touch Panel Pointer	TP1

For the latest information about the accessories, 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.

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.

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. The display panel of this monitor consists of 1280 horizontal pixels and 1024 vertical pixels. At a resolution of 1280 x 1024, images are displayed 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). sRGB allows Internet users to closely match colors as a simple color matching means for the Internet use.

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 DPMS (Video Electronics Standards Association - Display Power Management Signaling)

VESA provides the standardization of signals from PC (graphics board) for power saving of PC monitors. DPMS 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		Frequency		Polarity
			Horizontal: kHz	Vertical: Hz	
VGA 640x480@60Hz	25.2 MHz	Horizontal	31.47	Negative	
		Vertical	59.94	Negative	
VGA TEXT 720x400@70Hz	28.3 MHz	Horizontal	31.47	Negative	
		Vertical	70.09	Positive	
VESA 640x480@72Hz	31.5 MHz	Horizontal	37.86	Negative	
		Vertical	72.81	Negative	
VESA 640x480@75Hz	31.5 MHz	Horizontal	37.50	Negative	
		Vertical	75.00	Negative	
VESA 800x600@56Hz	36.0 MHz	Horizontal	35.16	Positive	
		Vertical	56.25	Positive	
VESA 800x600@60Hz	40.0 MHz	Horizontal	37.88	Positive	
		Vertical	60.32	Positive	
VESA 800x600@72Hz	50.0 MHz	Horizontal	48.08	Positive	
		Vertical	72.19	Positive	
VESA 800x600@75Hz	49.5 MHz	Horizontal	46.88	Positive	
		Vertical	75.00	Positive	
VESA 1024x768@60Hz	65.0 MHz	Horizontal	48.36	Negative	
		Vertical	60.00	Negative	
VESA 1024x768@70Hz	75.0 MHz	Horizontal	56.48	Negative	
		Vertical	70.07	Negative	
VESA 1024x768@75Hz	78.8 MHz	Horizontal	60.02	Positive	
		Vertical	75.03	Positive	
VESA 1152x864@75Hz	108.0 MHz	Horizontal	67.50	Positive	
		Vertical	75.00	Positive	
VESA 1280x960@60Hz	108.0 MHz	Horizontal	60.00	Positive	
		Vertical	60.00	Positive	
VESA 1280x1024@60Hz	108.0 MHz	Horizontal	63.98	Positive	
		Vertical	60.02	Positive	
VESA 1280x1024@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.

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

FCC Declaration of Conformity

We, the Responsible Party

EIZO NANAOTECHNOLOGIES INC.

5710 Warland Drive, Cypress, CA 90630

Phone: (562) 431-5011

declare that the product

Trade name: EIZO

Model: FlexScan T1721

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.

Hinweise zur Auswahl des richtigen Schwenkarms für Ihren Monitor

Dieser Monitor ist für Bildschirmarbeitsplätze vorgesehen. Wenn nicht der zum Standardzubehör gehörige Schwenkarm verwendet wird, muss statt dessen ein geeigneter anderer Schwenkarm installiert werden. Bei der Auswahl des Schwenkarms sind die nachstehenden Hinweise zu berücksichtigen:

Der Standfuß muß den nachfolgenden Anforderungen entsprechen:

- a) Der Standfuß muß eine ausreichende mechanische Stabilität zur Aufnahme des Gewichtes vom Bildschirmgerät und des spezifizierten Zubehörs besitzen. Das Gewicht des Bildschirmgerätes und des Zubehörs sind in der zugehörigen Bedienungsanleitung angegeben.
- b) Die Befestigung des Standfusses muß derart erfolgen, daß die oberste Zeile der Bildschirmanzeige nicht höher als die Augenhöhe eines Benutzers in sitzender Position ist.
- c) Im Fall eines stehenden Benutzers muß die Befestigung des Bildschirmgerätes derart erfolgen, daß die Höhe der Bildschirmmitte über dem Boden zwischen 135 – 150 cm beträgt.
- d) Der Standfuß muß die Möglichkeit zur Neigung des Bildschirmgerätes besitzen (max. vorwärts: 5°, min. nach hinten $\geq 5^\circ$).
- e) Der Standfuß muß die Möglichkeit zur Drehung des Bildschirmgerätes besitzen (max. $\pm 180^\circ$). Der maximale Kraftaufwand dafür muß weniger als 100 N betragen.
- f) Der Standfuß muß in der Stellung verharren, in die er manuell bewegt wurde.
- g) Der Glanzgrad des Standfusses muß weniger als 20 Glanzeinheiten betragen (seidenmatt).
- h) Der Standfuß mit Bildschirmgerät muß bei einer Neigung von bis zu 10° aus der normalen aufrechten Position kippstabil sein.

„Maschinenlärminformations-Verordnung 3. GPSGV:

Der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemäss EN ISO 7779“

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• 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）



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