English

User's Manual

FlexScan[®] L350



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IMPORTANT!

* The manufacturer is not responsible for damage or malfunction caused by improper connection. The power cord should be connected directly to a standard wall power outlet.



IMPORTANT!

To ensure personal safety and proper maintenance. Please read this section and the caution statements on the LCD monitor (refer to the figure above).

This manual uses the safety symbols below. They denote critical information. Please read them carefully.



Indicates a prohibited action.



Indicates to ground for safety.

🛆 warning

Failure to abide by the information in a WARNING may result in serious injury and can be life threatening.

Failure to abide by the information in a CAUTION may result in moderate injury and/or property or product damage.

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

Attempting to use a malfunctioning LCD monitor can be dangerous.

• Do not dismantle the cabinet or modify the LCD monitor.

Dismantling the cabinet or modifying the monitor may result in electric shock or burn.

• Keep small objects away from the LCD monitor.

Small objects may accidentally fall through the ventilation slots into the cabinet-leading to fire, shock or equipment damage.

• Keep liquids away from the LCD monitor.

Spillage into the cabinet may result in fire, electric shock, or equipment damage.

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

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

Use protective gloves whenever handling a damaged panel. The liquid crystal which leaks from the panel is poisonous if it enters the eyes or mouth. If any part of the skin or body comes in direct contact with the panel, please wash thoroughly. If some physical symptoms result, please consult your doctor.

• Take care in disposing of the LCD monitor.

The backlight of the LCD monitor contains mercury. Follow local regulations or laws for safe disposal.

• Use the enclosed power cord. If using the power cord other than the enclosed one, use the following cord.

In USA and Canada, use a UL LISTED/CSA LABELED or CERTIFIED power cord set meeting the following specifications:

- * Rating: min. 125 V, 10 A * Length: max. 2.0 m * Type: SVT
- Plug type: NEMA 5-15P, Parallel blade, Grounding type, 125 V. 10 A
- In Europe, use a proper European standard approved power cord meeting the following specifications:
 - * Rating: min. 250 V, 10 A * Length: max. 2.0 m * Type: H05VV-F 3G 1 mm²

Use a plug type approved by the country where you use Failure to do so may cause fire or electric shock.







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• The equipment must be connected to a grounded main outlet.

Failure to do this may result in an electric shock.

- Handle the power cord with care.
 - * Do not place the cord underneath the LCD monitor or other heavy objects.
 - * Do not pull on the cord.
 - * Do not bend, bundle or tie up the cord.
 - * Never attempt to repair a damaged cord.

If the power cord becomes damaged, stop using it. Use of a damaged cord may result in fire or electric shock.

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

Never tug on the cord, doing so may cause damage and could result in fire or electric shock.

Use the correct voltage.

The LCD monitor is designed for use with a specific voltage only. Connection to a different voltage may cause fire, electric shock, or other damage.

- Do not overload your power circuit, as this may result in fire or electric shock.
- To ensure proper connections of the power cord, be certain to plug the power cord into the provided LCD monitor connector and directly to a wall outlet.

By not doing so may result in fire or electric shock.

• Keep the plastic packing bags away from children and infants.

Plastic bags can be dangerous. To avoid danger of suffocation, keep the bag away from babies and children.

• Place the LCD monitor on a strong, stable surface.

A unit placed on an inadequate surface may fall, resulting in injury or equipment damage.

If the LCD monitor falls, disconnect the power immediately and have the unit checked by a qualified service engineer before using it again. Using a LCD monitor after it has been dropped may result in fire or electric shock.

• When attaching the monitor to the mount, use the enclosed screws and tighten them securely. When reattaching the monitor to the tilt stand, use the screws that was attached to the monitor originally.

By not doing so may result in injury or failure of the monitor. To attach the mount to the monitor, please read the instruction manual of the mount.









- Set the LCD monitor in an appropriate location.
- * Do not install in a dusty or humid environment.
- * Do not place near water.
- * Do not place in a location where light shines directly on the screen.
- * Do not place near heat generating devices or a humidifier.

A CAUTION

- At the end of the day, or if you plan to leave the LCD monitor unused for an extended period, turn off the main power switch and disconnect the power cord from the wall socket so that no power connections are made.
- To ensure safety, always unplug the LCD monitor before cleaning it.

Cleaning the LCD monitor while it is plugged into a power outlet may result in electric shock.

- Never use thinner, benzene, or other strong solvents or abrasive cleaners, as these may cause damage to the cabinet or LCD panel.
- Periodically clean the area around the plug.

Build-up of dust, water, or oil on the plug may result in fire.

• Please keep the LCD monitor in a dust-free environment.

Dust accumulation within the LCD monitor may result in fire or equipment failure.

- Do not touch the plug or the power unit with wet hands. Touching the plug with wet hands is dangerous and can cause electrical shock.
- When handling the LCD monitor, please refer to the diagram.

Grip the bottom of the LCD monitor firmly with both hands ensuring the panel faces outward before lifting.

• Handle with care to avoid scratching or damaging the panel. If the LCD monitor becomes damaged, disconnect the power immediately and have the unit checked by a qualified service engineer before using it again. Using a LCD monitor after it has been dropped may result in fire or electric shock.



• Disconnect the power cord when moving the LCD monitor. Moving the LCD monitor with the cord attached or lifting it is dangerous. It may result in injury or equipment damage.

• Use an easily accessible power outlet.

This will ensure that you can disconnect the power quickly in case of a problem.



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- · Do not block the ventilation slots on the cabinet.
- * Do not place books or any other papers on the ventilation slots.
- * Do not install the monitor in a closed space.
- * Do not use the monitor laying down or upside down.
- * Do not remove the tilt-swivel stand.

Using the monitor in this way blocks the ventilation slots and prevents proper airflow, leading to fire or other damage.

Others

- The screen may have some defective pixels. These pixels may appear as slightly light or dark areas on the screen. This is due to the characteristics of the panel itself, and not the LCD product.
- The backlight of the LCD monitor has a fixed life span.

When the screen becomes dark or begins to flicker, please contact your dealer.

- Take care when handling the LCD panel.
- * Do not press on the panel or edge of the frame strongly as this will result in damage to the screen. There will be prints left on the screen if the pressed image is dark or black. Leave the screen white to decrease the prints.
- * Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- * Cleaning the panel with a dirty or rough cloth may damage the panel.
- Generally, for maximum viewing comfort position the LCD monitor slightly below eye level. Staring at the LCD monitor for prolonged periods can cause eye strain. Be sure to take adequate rests. (A 10-minute rest period each hour is suggested.)





INTRODUCTION

About This Manual

This manual explains the precautions, features, specifications, and operation of your EIZO LCD monitor. For convenience, a "ScreenManager Quick Reference" guide has been included which shows how to implement basic adjustments with the ScreenManager utility.

Package Contents



- If any of the above-listed items are missing or damaged, please contact your local dealer for assistance.
- We recommend that you retain the original packing materials in case of future need.



800-650-4242, x3348

Intl: 650-572-2700, x3348 Fax: 650-572-9675 http://www.kensington.com

1 INSTALLATION

1-1 Connecting up

PC Settings

Before connecting your PC to the LCD monitor, change the display screen settings (resolution and frequency) in accordance with those below.

Resolution and Frequency

fH: 31 kHz-61 kHz

fV: 50 Hz-75 Hz

NOTE

• The following 4 common display modes are preset in the LCD monitor's memory. If the display mode input to the LCD monitor is not one of the modes listed below, a part of the image may be distorted or missing.

	Mode	Displayed Size
1	640 x 480 (-75 Hz)	1024 x 768
2	720 x 400 (70 Hz) {320 x 200 (70 Hz)}	1024 x 768
3	800 x 600 (-75 Hz)	1024 x 768
4	1024 x 768 (-75 Hz)	1024 x 768

- The maximum resolution of this LCD monitor is 1024 x 768 at a maximum fV of 75 Hz.
- The LCD monitor automatically enlarges lower display modes to the maximum display modes (1024 x 768).
- The display modes, 720 x 400 and 320 x 200, have the same signal timings. Select the appropriate resolution at "VGA Selection" to avoid picture's distortion. See page 28.
- At the lower display modes, since the pixel elements are fixed, some lines of the characters may become fuzzy. Use "Smoothing" to make the lines clear. See page 23.

Using the LCD monitor with Windows® 95/98/2000

A Monitor information file is saved in the EIZO LCD Utility Disk included in the package. It includes all the L350 required information for best operation with Windows 95/98/2000. Please install the enclosed utility and select "EIZO FlexScan L350" from the monitor list in Windows 95/98/2000.

For installation procedure, please read the readme.txt in the utilily disk.

Connecting the Cables

- (1) Be sure that the power switches of both the PC and the LCD monitor are OFF.
- (2) Plug the signal cable into the D-Sub connector at the rear of the monitor. Please ensure that the arrow mark on the casing of the connector is visible when connecting.

NOTE

When connecting the signal cable, check that the shape of the cable connector matches the shape on the LCD monitor.

(3) Plug the other end of the cable into the video connector on the rear of the PC.

Standard PC graphics board



Macintosh



- (4) Plug the power cord into the power connector in the rear of the LCD monitor. Plug the other end into a power outlet.
- (5) Turn on the monitor's main power and then switch on the PC power. Whenever you finish your operation, turn off the PC and the monitor.

NOTE

 Do your part to conserve energy, turn off the monitor when you are finished using it.

Attaching an Arm Stand to the Monitor

🛆 warning

 When attaching the monitor to the mount, use the enclosed screws and tighten them securely. When reattaching the monitor to the tilt stand, use the screws that was attached to the monitor originally.

By not doing so may result in injury or failure of the monitor. To attach the mount to the monitor, please read the instruction manual of the mount.

NOTE

- Use a VESA approved arm-stand. The LCD panel requires 75 mm x 75 mm hole spacing on the arm mounting pad. The arm-stand should be able to support an object weighing 8.0 kg.
- In case of using this LCD monitor with an arm-stand in an office workspace, the armstand shall be chosen and used carefully:
 - Use only an approved arm-stand (e.g. GS).
 - The arm-stand shall have sufficient stability (mechanical firmness) to support the weight of the monitor.
 - The arm-stand shall remain in that position where it is manually moved.
 - The arm-stand shall have the ability to tilt the monitor forward and backward.
 - The height of the upper row shall be less than or equal to 500 mm in relation to the desk surface when the arm-stnad is in its lowest osition.
- (1) Lay the LCD monitor down as shown below, not scratching the panel. Remove the tilt loosening the screws. When re-attaching the tilt, use the enclosed screws and fix the tilt to the monitor securely.







(+		₽
+	↑ →	
	75 mm	
	x	
	75 mm	
(+	Y	₽



(Example)

1

2 USING THE SCREENMANAGER

2-1 How to use the ScreenManager

About ScreenManager

As shown on the display, the ScreenManager is used to adjust the LCD monitor. Adjustments are made using the Enter and Control buttons (up, down, right and left) located on the front panel.



ScreenManager Menus

ScreenManager consists of a main menu and six sub menus: "Screen", "Color", "PowerManager", "Others", "Information" and "Language." Animated icons on each menu allows for easy adjustment.

Main menu



NOTE

 The menu message for the ScreenManager can be displayed in six languages: English, German, French, Italian, Spanish and Swedish.
 Primary setting is English. For details, please refer to the next page.

Sub menus

Menus	Functions	Reference
	<screen></screen>	page 18
E	<color> page 24</color>	
	<powermanager></powermanager>	page 26
<u>888</u>	<others></others>	page 27
Information(1/2) Input Signal 640x480 FH: 31.5kHz fV: 60.0Hz	<information> This menu shows the current ScreenManager settings. The menu contains two pages. Pressing the Enter key displays the following information: • Page 1: Input Signal • Page 2: "Color" adjustment settings, "PowerManager" settings, "Others" menu settings</information>	
Language Language Englich ODeutsch OPrançais OEspañol Oltaliano OSvenska	<language> First select the preferred language to use. The ScreenManager's messages will appear in the selected language. This will become the default language when you use the ScreenManager.</language>	

How to use the ScreenManager

Entering the ScreenManager

Push the Enter button once to display the main menu of the ScreenManager.



Enter the Settings

- (1) To enter any sub menu icon, highlight the desired icon by using the Control buttons (up, down, right and left) and push the Enter button. The sub menu appears.
- (2) Use the Control buttons to select the desired setting icon and push the Enter button.
- (3) The setting menu appears. Use the Control buttons to make all required adjustments.

Exit the ScreenManager

- (1) To return to the main menu, select the "Return" icon or push the down button twice, followed by the Enter button.
- (2) To save and exit the ScreenManager, select the "Exit" icon and push the Enter button. Double clicking the Enter button at any time also exits the ScreenManager menu.

NOTE

 Leaving the ScreenManager idle for 45 seconds or more will turn the adjustment off automatically, without the adjustment's being saved.

Shortcut keys

Brightness and contrast can be adjusted directly without any need to enter the ScreenManager. Press the Control buttons to adjust the settings and then the Enter button to save all changes.

See the diagram below for adjustment directions.

The brightness and contrast functions are also available in the ScreenManager "Screen" menu.



Adjustment Lock



The ScreenManager operation can be disabled by holding down the Auto adjustment button while switching on the LCD monitor's power. This will disable ("lock") the Enter button and Auto adjustment button, protecting from accidental changes. To unlock the buttons, switch the power off. Switch the power on while pressing the Auto adjustment button.

Note the brightness and contrast can be adjusted using the shortcut keys even while the Enter button is locked. After making such an adjustment, the Enter button can be used to clear the brightness/contrast adjustment menu from the screen.

2-2 Screen Adjustment



"Screen" adjustments for the LCD monitor should be used in suppressing screen flickering and also for adjusting the screen to its proper position. There is only one correct position for each display mode. It is also recommended to use the ScreenManager function when first installing the display or whenever changing the system.

For convenience, an easy set-up Program installed on the utility disk to assist in the set-up procedure is provided.

Adjustment Procedure

Overview



NOTE

- Allow the LCD monitor to warm up for at least 20 minutes before making adjustments.
- For maximum viewing comfort, it is suggested that the monitor be tilted to eye level.
- To make adjustment easily, install and run the "Screen Adjustment Program" in the attached utility disk. Before adjustment, read the "readme.txt" file.
- Do not continuously press the Control buttons (up, down, right and left buttons) on the front panel, as the adjustment value will change quickly and make it difficult to locate the most suitable adjustment point.

Procedure

Please adjust the screen using the following procedure.

(1) Having read the "readme.txt" file, install and run the "Screen Adjustment Program" in the utility disk.

Step by step adjustment is provided by the wizard guide. Follow the wizard or the procedures (2) to (7) below.

NOTE

 If the user's operation system has no utility disk (e.g. OS/2), we recommend setting the desktop pattern to that as shown in the diagram below.



(2) Auto Adjustment

Push the Auto adjustment button on the front panel. The following message will appear and remain on the screen for 5 seconds. While the message is on the screen, push the button again to automatically adjust the screen position. If you do not wish to do adjust the screen, do not push the button again. The message will disappear.

Your setting will be lost, if you press again now.

NOTE

 The Auto adjustment function is intended for use on Macintosh and PCs running Windows. It may not function properly if any of the following applies:

- PC running MS-DOS (not Windows).
- The background color for the "wallpaper" or "desktop" pattern is set to black or dark.
- Some signals from some graphics boards may not function properly. Follow the adjustment procedure next page.
- During the Auto adjustment, some icons (e.g. clock icon) appear on the screen continuously.



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(3) Enter the ScreenManager "Screen" menu.



(4) "Clock" Adjustment

(Example)

\bigcirc			
	8	101	
	1	344	

Function

Decreases the vertical bars of distortion.

- a) Select the "Clock" icon and push the Enter button to enter the "Clock" menu.
- b) If horizontal bars appear, these can be eliminated by adjusting the right and left buttons.
- c) Press the Enter button to memorize the setting and return to the "Screen" menu.
 - i) If the screen is free from any bars of distortion, proceed to "Position" adjustment.
 - ii) If horizontal flickering or horizontal bars appear, proceed to "Phase" adjustment.



- The LCD monitor is designed for analog input signals from a standard graphics board. The analog input signal is converted to a digital signal by the LCD circuitry. To convert the signal correctly, the LCD monitor needs to produce the same number of clock pulses as the dot clock of the graphics system. When the clock pulse is not correctly set, some vertical bars of distortion are displayed on the screen.
- When adjusting the "Clock", the horizontal screen size will also change.

(5) "Phase" Adjustment



Function

Eliminates the horizontal bars of distortion.

- a) Select the "Phase" icon and push the Enter button to show the "Phase" menu.
- b) If horizontal bars appear, these can be eliminated by adjusting the right and left buttons.
- c) After finishing the adjustment, push the Enter button to memorize the settings and return to the "Screen" menu.



- "Phase" adjustments should be done after adjusting the "Clock".
- Horizontal bars may not completely disappear from the screen depending on the PC.
- The phase adjustment decides the sampling point for converting the analog input signal to a digital signal. Adjusting the "Phase" after the "Clock" adjustment will produce a clear screen.

(6) "Position" Adjusment

Function

Controls the screen position.

- a) Select the "Position" icon and push the Enter button to enter the "Position menu. Adjustment markers are displayed on each corner of the screen.
- b) Adjust the position of th eupper left corner of the image using the Control buttons in order to align the screen.



- If vertical bars of distortion appear after finishing the "Position" adjustment, return to "Clock" menu and repeat the previously explained adjustment procedure ("Clock" "Phase" "Position").
- c) After finishing the adjustment, push the Enter button to memorize the settings and return to the "Screen" menu.

(7) "Contrast" Adjustment



Function

Controls the contrast of the screen

- a) Select the "Contrast" icon and push the Enter button to show the "Contrast/Brightness" menu.
- b) Press the Auto adjustment button on the front panel while displaying the "Contrast/Brightness menu to automatically adjust contrast.
- c) The screen blanks for a moment and adjusts the contrast to the maximum level of the current input signal.





OK

Too High

Too Low

- * In the case of the percentage color flickering between yellow and white, please note that this is not an error but actually the most optimum adjustment point.
- * The brightness of the entire screen is controlled by changing the "Brightness" controls. No contrast adjustment is required except when the graphics board or the resolution is changed from the previous one.
- d) Adjust the "Brightness" as desired using the up and down buttons.
- e) After finishing the adjustment, push the Enter button to memorize the settings and return to the "Screen" menu.

(8) Exit the ScreenManager

- a) To return to the main menu, select the "Return" icon or push the down button twice, followed by the Enter button.
- b) To exit the ScreenManager, select the "Exit" icon and push the Enter button. Double clicking the Enter button at any time also exit the ScreenManager menu.

This is the end of the Screen adjustment procedure.

NOTE

• At the lower display modes (refer to the page 11), the following adjustment is available.

	Function
Smoothing	Displays blurred texts clearly.This adjustment does not operate when the resolution is 1024 x 768.

2-3 Color Adjustment

About Color Adjustments

Entering the ScreenManager, select the "Color" icon and push the enter button to show the "Color" menu.



The ScreenManager "Color" menu provides 3 color setting modes; 1, 2, and 3. You can also adjust the color settings for each mode and store them for future use.

NOTE

 Allow the monitor to warm-up for at least 20 minutes before making an adjustment.

Color Mode

	Function
	Adjusts: Color Mode
Color Color	Mode 1(default):The normal white color. It is the maximum contrast level. Please use this mode normally.Mode 2:The white color tone is slightly bluish.Mode 3:The white color tone is slightly reddish.
	 The contrast level is reduced in Mode 2 and 3. (a) Select the "Color Mode" icon from the "Color" menu and push the Enter button. (b) Select option 1, 2 or 3 and push the Enter button. A long beep will be heard indicating the adjustment settings have been saved.

Gain Adjustments

By adjusting the red, green and blue color tones for each mode, custom colors can be defined. Please use this function when high precision color adjustment is required.

NOTE

• Before you attempt to change the colors, always start with the color settings set to the default setting by using the "Reset" icon in each color mode.

	Function
Gain	Adjusts: Gain
0 100× 0 100× 100× 100×	Gain The Gain adjustment has no effect on the starting point (the black level). It changes only the ending point (the white level). The Gain adjustment is used to fine tune the whites and light grays to an even balance.
	a) Select the "Gain" icon. The screen shown on the left will appear.
	b) Adjust each color until you can create a uniform white screen.
	c) To register the adjustment, select the "Save" icon and then push the Enter button. If the settings are not saved, all adjustments will be lost.
	d) Finally, re-adjust the contrast in the "Screen" menu to get the best image clarity.
	 The adjustment works effectively only when the percentages appear black. Magenta percentage means the color's saturation. Lower the percentage until it becomes black. After making the color settings, re-adjust the contrast to get the best definition and color intensity for the displayed image.
	 "Reset" You can recall the default color gain setting for the current color mode (1, 2, 3) using the "Reset" icon.
	• The values shown in percentages represent the current level within the specific adjustment only. They are available only as a reference tool. (To create a uniform white or black screen, the percentages for each will probably not be the same.)

2-4 Power-save Setup



Set-up Procedure

Set the monitor's power saving environment to match the PC's ScreenSaver software.

NOTE

• For the PC setup, please refer to the user's manuals of the PC and the graphics board.

■ VESA DPMS Power Saving Method

VESA DPMS utilizes four signals: ON, STANDBY, SUSPEND, and OFF. The monitor detects these signals from the graphics board and executes power saving accordingly, as illustrated below.

Signal	Screen	Indicator	Power Consumption
ON	Operation	Green	35 W
STAND-BY, Suspend, off	Blank	Yellow	less than 3 W

What is VESA DPMS?

The acronym VESA stands for "Video Electronics Standards Association," and DPMS stands for "Display Power Management Signaling." DPMS is a communication standard that PCs and graphics boards use to implement power savings at the monitor side.

What is Energy Star?

"Energy Star" is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency (EPA). The guidelines apply to PC systems and peripherals.

2-5 Other Settings



All of the icons shown in the ScreenManager "Others" menu are described below.

	Function
Off Timer	Automatically Turns off the Monitor
0thern ● 페 수 호전 전 ●Enoble I28 Columbia	What is Off Timer The Off Timer function allows the user to set the time in which the monitor will be in operation, called the "On Period" and automatically shifts the operation into the "Power Off" mode when the set "On Period" expires. The Off Timer function was created to reduce after-image characteristics that are particular to LCD monitors when the monitor screen is left on for a long period without use.
	 Select the "Off Timer" icon and press the Enter button to display "Off Timer" select menu. Select "Enable" and press the Enter button. Press the right/left button to adjust how long (1 to 23 hours) the monitor should be in the "On Period". Then, press the enter button to return to the "others" menu. Advance notice (indicator; flashing green) will be given 15 minutes before the monitor will automati- cally turn off and enter the "Power Off" modes .
	To Delay Entering Power Off To delay entering the "Power Off" mode, press any
	button on the front panel located to the left of the LED light during the advance notice period. The monitor will continue to operate for an additional 90 minutes. There will be another advance notice for 15 minutes as described. Delayed entrance into the "Power Off" period can be extended as many times as desired.
	 The Off Timer function will work while PowerManager is active, but there would be no advance notice before the monitor's power switches off.

	Function		
VGA Selection	Selecting Appropriation of the two display in 320 x 200 (70 Hz Using this adjustment) adjustment of the two selects of two selects of the two selects of t	riate VGA Mode nodes, VGA 720 x 400 (70 Hz)), have the same signal timings. nent selects the appropriate disp A Selection" icon and push the show the resolution select menu 0 x 400" or "Graphics 320 x 20 inter button. ffects only when the resolution f (70 Hz) or 320 x 200 (70 Hz).	and lay u.)0, is
الجنية Menu Position العامة عليه العامة العامة عليه العامة الع + + + +	Adjusting Menu's 1) Select the "Mer Enter button to 2) Set the position push the Enter I menu.	Position nu Position" icon and push the show the menu position menu. using the control buttons. The button to return to the Others	n,
कि Beset	Returns the settin Default setting are	gs to Factory Default e as follows:	
종 當 수 夏 완 Offenet #Cancel	Screen:	Contrast: 50% Brightness 100% Smoothing 3	
	Color	• Mode 1/Normal white	
	PowerManager	• VESA DPMS	
	Others	• Off Timer: Disable	
	Language	• English	

3 TROUBLESHOOTING

This page presents problems that can be corrected by the user. If a problem persists even after applying the suggested remedies, contact an EIZO dealer.

■ No picture

Problems	Points to check with possible solutions
1) Indicator status: OFF	□ Check that the power cord is securely connected.
2) Indicator status: GREEN	Check brightness and contrast settings. Minimum settings will cause screen to be blank.
3) Indicator status: YELLOW (flashing)	□ Try pressing the power switch. (The Off timer may be active.)
4) Indicator status: YELLOW	Try pressing a key on the keyboard, or clicking the mouse. (The screen-saver software may be active.)
	If the problem persists, switch off the monitor main power for a few minutes, then switch it back on and try again.
5) "No signal detected" error	\Box Check that the PC is switched ON.
message appears.	Check that the signal cable is properly connected to the graphics board or PC.
Input Signal FH: 0.0kHz	□ Check that the graphics board is correctly inserted in the PC.
101 0.042	□ For Windows 95/98/2000 users, install the "Monitor information file" in the utility disk.
6) "Out of range" error message appears. (Example)	□ Use the graphics board's utility software to change the frequency setting. (Refer to the manual of the graphics board.)
Signal Check Input Signal fH: 110.0kHz fV: 75.0Hz	□ For Windows 95 users (OSR 2.0 or newer)/98, restart the PC in a safe mode and change the frequency at the "Display" setting in the PC.

NOTE

- Whenever an error signal message appears, the signal frequency will be displayed in red.
- Error messages will remain on the screen for 30 seconds, and then disappear. An error message may not appear at all if the signal frequency is extremely high or extremely low.

Imaging problems

Problems	Points to check with possible solutions
1) Display position is incorrect.	□ Adjust the image position using the "Position" icon in the ScreenManager "Screen" menu. See page 21.
	□ If the problem persists, use the graphics board's utility sofware to change the display position if available. (It may be called "back-porch".)
	□ Change the resolution or refresh rate to match the preset mode. See page 11.
2) Vertical bars of distortion appear.	□ Decrease the vertical bars using the "Clock" icon in the ScreenManager "Screen" menu. See page 20.
3) Letters and lines appear blurred.	 Adjust the blurred lines using "Smoothing" adjustment. Please Refer to the page 23.
4) Distortion appears like the figure below.	This happens when both composite (X-OR) input signal and separate vertical synchronizing signal are input. Please select either one from the two signals.
5) Horizontal bars of distortion appear.	Decrease the horizontal bars using the "Phase" icon in the ScreenManager "Screen" menu. See page 21.
6) The screen is too bright or too dark.	 Adjust the contrast and brightness using the ScreenManager's Screen menu. See page 22. (The backlight of the LCD monitor has a fixed life span. When the screen becomes dark or begins to flicker, please contact your dealer.)
7) After-images appear.	□ When the screen image has been changed after displaying the same image for a long period, after- images may appear. Use the Off Timer function and avoid leaving the screen on all the time.
8) Finger prints appears on the screen.	□ Leaving the screen white may solve the problem.

Problems	Points to check with possible solutions
9) The screen has defective pixels (e.g. slightly light or dark).	□ This is due to the characteristics of the panel itself, and not the LCD product.

Others

Problems	Points to check with possible solutions
1) The utility disk is unable to be opened (for Macintosh only).	□ Some PCs without PC-Exchange do not allow the utility disk to be opened. Please set the desktop pattern to ever-other-dot before adjustment. See page 19.
2) • The Enter button does not operate.• The Auto adjustment button does not operate.	□ The adjustment lock is probably on. To unlock: switch the LCD monitor off. Then, while pressing the Auto adjustment button switch the power on. See page 17.
3) The Auto adjustment button does not work properly.	 The Auto adjustment function is intended for use on Macintosh and IBM compatibles PCs running Windows. It may not work properly if either of the following applies. You are running an AT-compatible PC on MS- DOS (not Windows). The background color for the "wallpaper" or "desktop" pattern is set to black. Some signals from the graphics boards may not function properly. Follow the adjustment procedure on page 18, adjust step by step using the "Screen" menu.
4) Frequency does not change after installing "Monitor information file" in the attached utility disk on Windows 95/98/2000.	Use the graphics board's utility software to change the input signal frequency.

4 CLEANING

• Keep liquids away from the monitor.

Spillage into the cabinet may result in fire, electric shock, or equipment damage.



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

- To ensure safety, always unplug the monitor before cleaning it. Cleaning the monitor while it is plugged into a power outlet may result in electric shock.
- Periodically clean the area around the plug. Buildup of dust, water, or oil on the plug may result in fire.
- Dust accumulation within the monitor may result in fire or equipment failure.

Please keep the monitor in a dust-free environment.



Never use thinner, benzene, alcohol (ethanol, methanol, or isopropyl alcohol), abrasive cleaners, or other strong solvents, as these may cause damage to the cabinet or LCD.

Periodic cleaning is recommended to keep the monitor looking new and to prolong its operational lifetime. Clean the cabinet and LCD panel as follows.

Cabinet

To remove stains, wipe the cabinet with a soft, lightly moistened cloth using a mild detergent. Do not spray wax or cleaner directly onto the cabinet.

LCD panel

The LCD surface can be cleaned with a soft cloth, such as cotton or lens paper.

If necessary, stubborn stains can be removed by moistening part of a cloth with water to enhance its cleaning power.

Electrical Specifications

LCD Panel	38 cm (15 inch), TFT color LCD panel
	0.297 mm dot pitch, Anti-Glare Hard Coating
Viewing Angle	Horizontal: 140°, Vertical: 120°
	(at Contrast Ratio > 5)
Scan Frequency	
Horizontal:	31 kHz-61 kHz (Automatic)
Vertical:	50 Hz-75 Hz (Automatic)
Viewable Image Size	304 mm (H) ²²⁸ mm (V)(11.9" (H) ^{8.9} "(V))
	(Viewable Image Size: 38.0 mm (14.9"))
Power Supply	100-120/220-240 VAC ±10%, 50/60 Hz, 0,6/0.3 A
Power Consumption:	35 W
Power Saving Mode:	Less than 3 W
Input Connector	D-Sub mini 15-pin
Display Colors	16 million colors (max.)
Recommended Resolution	1024 dots - 768 lines
Input Signal	
Sync:	• H/V Separate, TTL, Positive/Negative
	• H/V Composite, TTL, Positive/Negative
Video:	• Analog 0.7 Vp-p/75 W, Positive
Pixel Dot Clock	80 MHz
Plug & Play	VESA DDC1/2B

Mechanical Specifications

Dimensions	384 mm (W) ~ 386.2 mm (H) ~ 171.4 mm (D)
	(15.1" (W) ~ 15.2" (H) ~ 6.7" (D))
Weight	5.6 kg (12.3 lbs.)
Weight (without tilt stand)	4.1 kg (9.0 lbs.)

Environmental Specifications

Temperature	Operating: 0°C to 35°C (32°F to 95°F)
	Storage: -20° C to 60° C (-4° F to 140° F)
Humidity	30% to 80% R.H. Non-condensing

Certifications and Standards

100-120 VAC range	UL/C-UL, FCC class B, TÜV Rheinland Ergonomics Approved, TCO'99 (excluding black-cabinet L350),
	EPA ENERGY STAR [®] Program
220-240 VAC range	CE, CB, TÜV Rheinland/GS, TÜV Rheinland/
	Ergonomics Approved, TCO'99 (excluding black- cabinet L350), EPA ENERGY STAR® Program, TÜV Eco Circle 2000

MEMO





Excluding Black-Cabinet LCD Monitor

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Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

• Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature. There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labelling involve?

This product meets the requirements for the TCO'99 scheme which provides for international and environmental labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration). Approval requirements cover a wide range of issues: environment, ergonomics, usability, emission of electric and magnetic fields, energy consumption and electrical and fire safety. The environmental demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy. The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user. Labelled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

- TCO Development
- SE-114 94 Stockholm, Sweden
- Fax: +46 8 782 92 07
- Email (Internet): development@tco.se
- Current information regarding TCO'99 approved and labelled products may also be obtained via the Internet, using the address: http://www.tco-info.com/

Excluding Black-Cabinet LCD Monitor

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Environmental requirements

Flame retardants

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Flame retardants are present in printed circuit boards, cables, wires, casings and • housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most • flame retardants contain bromine or chloride, and those flame retardants are chemically • • related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to • the bio-accumulative* processes. Flame retardants have been found in human blood and • • researchers fear that disturbances in foetus development may occur. The relevant TCO'99 demand requires that plastic components weighing more than •

25 grams must not contain flame retardants with organically bound bromine or ••••• chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**

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Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercurv**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit.

CFCs (freons)

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

* Bio-accumulative is defined as substances which accumulate within living organisms.

** Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

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

FCC Declaration of conformity

We, the Responsible Party

EIZO NANAO Technologies Inc. 5710 Warland Drive, Cypress, CA 90630 Phone: (562) 431-5011

declare that the product

Trade name: EIZO Model: FlexScan L350

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 provided 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 (D-SUB mini 15 pin - D-SUB mini 15 pin, the enclosed signal cable)

Canadian Notice

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

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

For Europe	e, etc. (220-240 Vac) (Only
	CE Marking	
D	eclaration of Conformity	
Kind of equipment: Type-designation:	Monitor L350	
s in compliance with:		
Council Directive 73/23/EEC Council Directive 89/336/EEC	EN60950:1992+A1+A2+A EN55022 (classB):1995 EN61000-3-2:1995	3+A4+A11 EN55024:1998 EN61000-3-3:1995
	onformitätserklärung	
Geräteart : Gerätetyp :	Monitor L350	
len folgenden Normen oder Vorsch	nriften entspricht:	
EU-Richtlinie 73/23/EEC EU-Richtlinie 89/336/EEC	EN60950:1992+A1+A2+A EN55022 (classB):1995 EN61000-3-2:1995	3+A4+A11 EN55024:1998 EN61000-3-3:1995
Dec	claration de conformite	
Nature de l'équipement : Type-désignation :	Moniteur L350	
est en conformité avec :		
Directive Européenne 73/23/EEC Directive Européenne 89/336/EEC	EN60950:1992+A1+A2+A3 EN55022 (classB):1995	3+A4+A11 EN55024:1998

Hinweis zur Ergonomie :

Dieser Monitor erfüllt die Anforderungen an die Ergonomie nach EK1/59-98 mit dem Videosignal, 1024 Punkte x 768 Zeilen, RGB analog, 0,7 Vp-p und mindestens 75,0 Hz Bildwiederholfrequenz, non interlaced.

Weiterhin wird aus ergonomischen Gründen empfohlen, die Grundfarbe Blau nicht auf dunklem Untergrund zu verwenden (schlechte Erkennbarkeit, Augenbelastung bei zu geringem Zeichenkontrast.)

Recycle Auskunft

Die Rücknahme dieses Produktes nach Nutzungsende übernimmt EIZO in Deutschland zusammen mit dem Partner von Roll MBB Recycling GmbH.

Dort werden die Geräte in ihre Bestandteile zerlegt, die dann der Wiederverwertung zugeführt werden. Um einen Abholtermin zu vereinbaren und die aktuellen Kosten zu erfahren, benutzen Sie bitte folgende Rufnummer: 02153-73 35 00. Weitere Informationen finden Sie auch unter der Internet-Adresse: www.eizo.de.