User's Manual

RadiForce®
MX300W
MX300W-C

Color LCD Monitor

Important

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

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

EIZO®

SAFETY SYMBOLS

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

⚠	**WARNING** Failure to abide by the information in a WARNING may result in serious injury and can be life threatening.	
⚠	**CAUTION** Failure to abide by the information in a CAUTION may result in moderate injury and/or propertyor product damage.	
🚫	Indicates a prohibited action.	
⏚	Indicates to ground for safety.	

Windows, Windows Vista, Windows Media, SQL Server, and Xbox 360 are registered trademarks of Microsoft Corporation in the United States and other countries.

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EIZO, the EIZO Logo, ColorEdge, DuraVision, FlexScan, FORIS, RadiForce, RadiCS, RadiNET, Raptor, and ScreenManager are registered trademarks of EIZO Corporation in Japan and other countries.

All other company and product names are trademarks or registered trademarks of their respective owners.

This product has been adjusted specifically for use in the region to which it was originally shipped. If operated outside this region, the product may not perform as stated in the specifications.
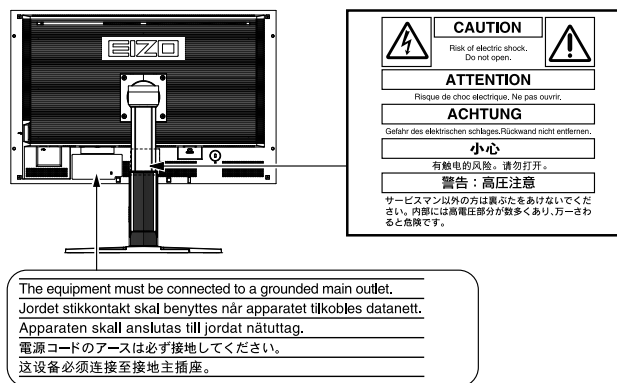
- It shall be assured that the final system is in compliance to IEC60601-1-1 requirement.
- Power supplied equipment can emit electromagnetic waves, that could influence, limit or result in malfunction of the monitor. Install the equipment in a controlled environment, where such effects are avoided.
- This is a monitor intended for use in a medical imaging system. It does not support the display of mammography images for diagnosis.

⚠PRECAUTIONS

IMPORTANT!

• This product has been adjusted specifically for use in the region to which it was originally shipped. If operated outside the region to which it was originally shipped, the product may not perform as stated in the specifications.

• To ensure personal safety and proper maintenance, please read this section and the caution statements on the unit (refer to the figure below).

[Location of the Caution Statements]

| CAUTION |
| Risk of electric shock. Do not open. |
| ATTENTION |
| Risque de choc electrique. Ne pas ouvrir. |
| ACHTUNG |
| Gefahr des elektrischen schlages.Rückwand nicht entfernen. |
| 小心 |
| 有触电的风险。请勿打开。 |
| 警告：高压注意 |
| サービスマン以外の方は裏ぶたをあけないでください。内部には高電圧部分が数多くあり、万一さわると危険です。 |

The equipment must be connected to a grounded main outlet.
Jordet stikkontakt skal benyttes når apparatet tilkobles datanett.
Apparaten skall anslutas till jordat nätuttag.
電源コードのアースは必ず接地してください。
这设备必须连接至接地主插座。

[Symbol on the Unit]

Symbol	This symbol indicates
⏻	Power Button Press to turn the monitor's power on or off.
~	Alternating current
⚡	Alerting electrical hazard
⚠	Caution Refer to SAFETY SYMBOLS section in this manual.

⚠ WARNING

If the unit 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 unit may result in fire, electric shock, or equipment damage.

Do not open the cabinet or modify the unit.
Opening the cabinet or modifying the unit may result in fire, electric shock, or burn.

⚠ WARNING

Refer all servicing to qualified service personnel.
Do not attempt to service this product yourself as opening or removing covers may result in fire, electric shock, or equipment damage.

Keep small objects or liquids away from the unit.
Small objects accidentally falling through the ventilation slots into the cabinet or 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 unit immediately. Have the unit checked by a qualified service engineer before using it again.
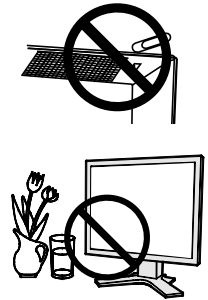
Place the unit at the strong and stable place.
A unit placed on an inadequate surface may fall and result in injury or equipment damage.
If the unit falls, disconnect the power immediately and ask your dealer for advice. Do not continue using a damaged unit. Using a damaged unit may result in fire or electric shock.

OK
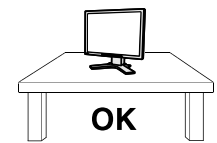
Use the unit in an appropriate location.
Not doing so may result in fire, electric shock, or equipment damage.
- Do not place outdoors.
- Do not place in the transportation system (ship, aircraft, trains, automobiles, etc.)
- Do not place in a dusty or humid environment.
- Do not place in a location where water is splashed on the screen (bathroom, kitchen, etc.).
- Do not place in a location where the steam comes directly on the screen.
- Do not place near heat generating devices or a humidifier.
- Do not place in a location where the product is subject to direct sunlight.
- Do not place in an inflammable gas environment.
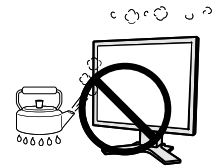
To avoid danger of suffocation, keep the plastic packing bags away from babies and children.

Use the enclosed power cord and connect to the standard power outlet of your country.
Be sure to remain within the rated voltage of the power cord.Not doing so may result in fire or electric shock.
Power supply: 100-120/200-240 Vac, 50/60 Hz

To disconnect the power cord, grasp the plug firmly and pull.
Tugging on the cord may damage and result in fire or electric shock.

OK

The equipment must be connected to a grounded main outlet.
Not doing so may cause in fire or electric shock.

⚠ WARNING

Use the correct voltage.
- The unit is designed for use with a specific voltage only. Connection to another voltage than specified in this User's Manual may cause fire, electric shock, or equipment damage.

  Power supply: 100-120/200-240 Vac, 50/60 Hz
- Do not overload your power circuit, as this may result in fire or electric shock.

Handle the power cord with care.
- Do not place the cord underneath the unit or other heavy objects.
- Do not pull on or tie the cord.

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

For the electrical safety, do not connect or disconnect the power cord in the presence of patients.

Never touch the plug and power cord if it begins to thunder.
Touching them may result in electric shock.

When attaching an arm stand, please refer to the user's manual of the arm stand and install the unit securely.
Not doing so may cause the unit to become unattached, which may result in injury or equipment damage. Before installation, make sure that desks, walls, and others an arm stand is fixed on have adequate mechanical strength.
When the unit is dropped, please ask your dealer for advice.
Do not continue using a damaged unit. Using a damaged unit may result in fire or electric shock. When reattaching the tilt stand, please use the same screws and tighten them securely.

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

Fluorescent backlight lamps contain mercury (the products that have LED backlight lamps contain no mercury), dispose according to local, state or federal laws.
Exposure to elemental mercury can result in effects on the nervous system, including tremor, memory loss, and headache.

⚠ CAUTION

Handle with care when carrying the unit.
Disconnect the power cord and cables when moving the unit. Moving the unit with the cord attached is dangerous. It may result in injury.

Carry or place the unit according to the correct specified methods.
- When carrying the unit, grasp and hold firmly as shown in the illustration below.
- Do not unpack or carry the unit only by a single person, since the large size unit is so heavy.

Dropping the unit may result in injury or equipment damage.

OK **OK**
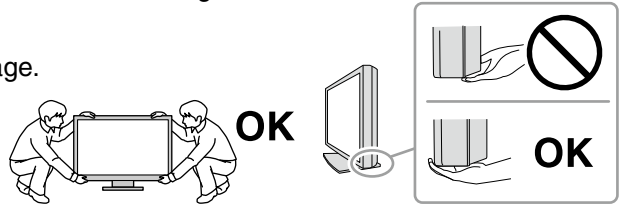
Do not block the ventilation slots on the cabinet.
- Do not place any objects on the ventilation slots.
- Do not install the unit in a closed space.
- Do not use the unit laid down or upside down.

Blocking the ventilation slots prevents proper airflow and may result in fire, electric shock, or equipment damage.

Do not touch the plug with wet hands.
Doing so may result in electrical shock.

Use an easily accessible power outlet.
This will ensure that you can disconnect the power quickly in case of a problem.

Periodically clean the area around the plug.
Dust, water, or oil on the plug may result in fire.

Unplug the unit before cleaning it.
Cleaning the unit while it is plugged into a power outlet may result in electric shock.

If you plan to leave the unit unused for an extended period, disconnect the power cord from the wall socket after turning off the power switch for the safety and the power conservation.

Notice for this monitor

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

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

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

The specifications noted in this manual are only applicable when the following are used:
· Power cords provided with the product
· Signal cables specified by us

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

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

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

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

Periodic cleaning is recommended to keep the monitor looking new and to prolong its operation lifetime. (Refer to "Cleaning" on the next page.)

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

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

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

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

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

Cleaning

Attention

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

Note

• The optional ScreenCleaner is recommended for cleaning the cabinet and panel surface.
("ScreenCleaner" is suuplied with MX300W-C.)

If necessary, the stains on the cabinet and panel surface can be removed by moistening part of a soft cloth with water.

To use the monitor comfortably

• 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.

Table of Contents

1. Introduction

Thank you very much for choosing an EIZO Color Monitor.

1-1. Features

- 29.8 inch class wide screen format LCD
- WQXGA (2560 × 1600) display compliant
- HDCP signal (SIGNAL2) compliant
- Dual-display compliant by introducing dual-input system (DVI-D × 2 connectors)
- DVI digital input (TMDS) compliant
- Horizontal scan frequency: 31 - 100 kHz
- Vertical scan frequency: 25.5 - 61 Hz (VGA TEXT: 69 - 71 Hz)
- Resolution: 2560 dots × 1600 lines
- Compatible with frame synchronization mode (59 - 61 Hz)
- Smoothing (soft - sharp) function
- DICOM mode (CAL Switch function)
- CAL Switch function for selecting an optimal calibration mode
- The quality control software "RadiCS LE" (for Windows) used to calibrate the monitor is included(refer to the EIZO LCD Utility Disk).
- The utility software "ScreenManager Pro for Medical" (for Windows) to control the monitor from a PC with mouse/keyboard is included (refer to the EIZO LCD Utility Disk).
- Portrait/Landscape display available (rotate 90 degrees clockwise)

Tips

- This monitor supports the Portrait/Landscape display. This function allows you to change the orientation of the Adjustment menu when using the monitor screen in vertical display position. (Refer to "3-8. Setting the Orientation of the Adjustment Menu" on page 24.)
- For using the monitor with "Portrait" position, the graphics board supporting portrait display is required. When using the monitor with "Portrait" position, the setting needs to be changed depending on the graphics board used in your PC. Refer to the manual of the graphics board for details.

1-2. Buttons and Indicators

Adjustment menu
(ScreenManager ®*)
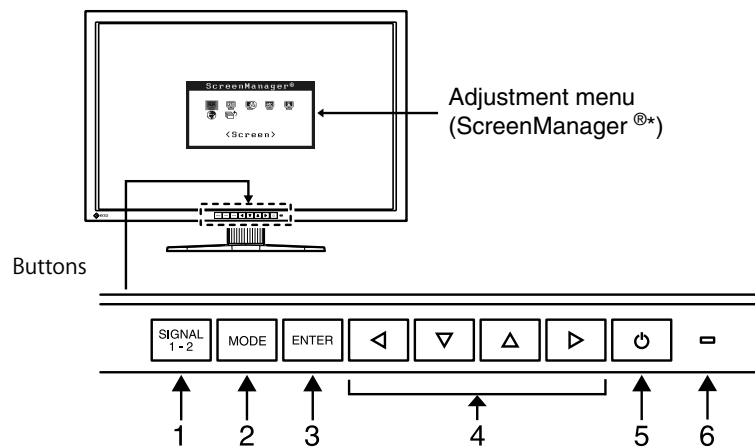
Buttons

1. Input Signal Selection button
2. Mode button
3. Enter button
4. Control buttons (Left, Down, Up, Right)
5. Power button
6. Power indicator

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

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

1-3. Utility Disk

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

Disk contents and software overview

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

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

To use RadiCS LE or ScreenManager Pro for Medical

Refer to the corresponding User's Manual on the CD-ROM disk in order to install and use the software. When using this software, you will need to connect a PC to the monitor with the supplied USB cable. For more information refer to the "2-2. Making Use of USB (Universal Serial Bus)" (page 15).

2. Installation

2-1. Environmental Settings

Depending upon your operating environment, it may be necessary to set the frequency that corresponds to your graphics board. If you install it for the first time or change environment, set the monitor.

NOTE

• Factory default settings are for single display mode and Dual Link.
• RadiCS LE, RadiCS UX1 (optional) or Clip-On Swing Sensor (optional) cannot be used with dual display mode in portrait orientation.
• Refer to the manual of the graphics board.
• These environment described below can be set regardless of whether or not the computer is running.

Displaying Two Screens Simultaneously

It is possible to display two screens on a single monitor at the same time by using one graphics board with DVI-D2 type output or two graphics boards with DVI-D output on the same computer.

Dual display with 1280 × 1600 resolution is the maximum display size.
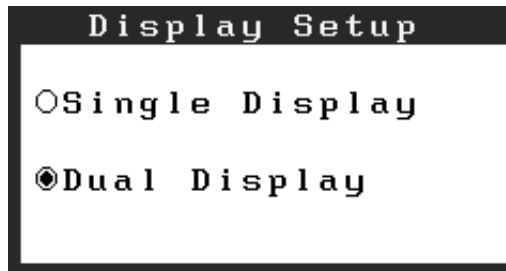
How to set

1 Connect the [SIGNAL1] signal input connector and the computer using the [DD200DL-BK] signal cable.

2 Connect the [SIGNAL2] signal input connector and the computer using the [FD-C39] signal cable.

After connecting the cable connectors, tighten the screws of the connectors to secure the coupling.
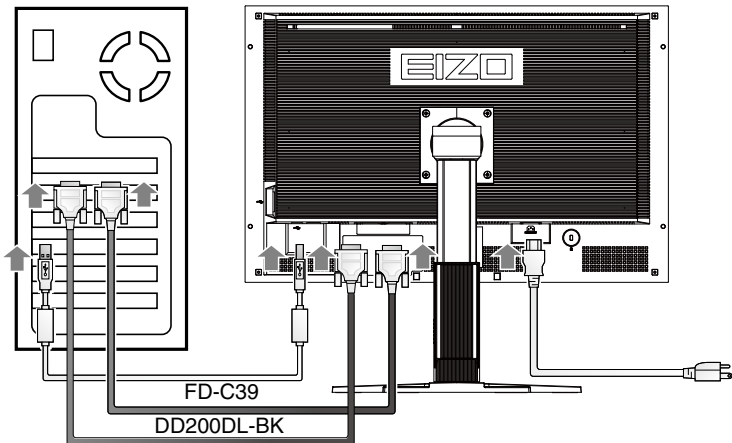
Connectors on the PC	Signal cable	Connectors on the monitor
	Signal cable (DD200DL-BK)	SIGNAL1
	Signal cable (FD-C39)	SIGNAL2

3   Hold down the ⬚ SIGNAL 1-2 button and press the ⬚ ⏻ button.

4   The <Display Setup> menu will appear in the middle of the screen. Press the ⬚ △ ⬚ ▽ buttons to select "Dual Display" and then press ENTER.

```
┌─────────────────────────┐
│  Display  Setup         │
│                         │
│ ○Single  Display        │
│                         │
│ ◉Dual  Display          │
│                         │
└─────────────────────────┘
```

Inputting 10 bit Color Signal

Some graphics boards support 10 bit color signal input.

How to set

1   Connect the [SIGNAL1] signal input connector and the computer using the [DD200DL-BK] signal cable.

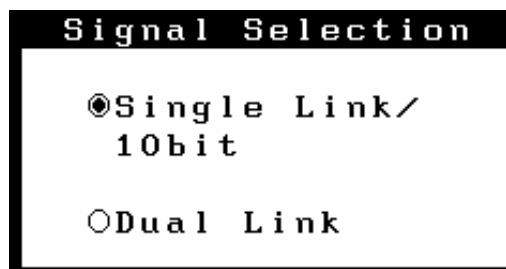After connecting the cable connectors, tighten the screws of the connectors to secure the coupling.

Connectors on the PC	Signal cable	Connectors on the monitor
	Signal cable (DD200DL-BK)	SIGNAL1
◎ ⬚ ◎	🔲🔲─🔲~🔲─🔲🔲	◎ ⬚ ◎
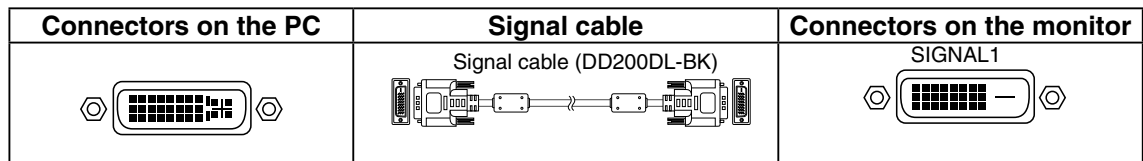
2   Hold down the ⬚ SIGNAL 1-2 button and press the ⬚ ⏻ button.

3   The <Display Setup> menu will appear in the middle of the screen. Press the ⬚ △ ⬚ ▽ buttons to select "Single Display" and then press ENTER.

4   The <Signal Selection> menu will appear. Press the ⬚ △ ⬚ ▽ buttons to select "Single Link/10bit", and press ENTER.

```
┌─────────────────────────┐
│  Signal  Selection      │
│                         │
│   ◉Single  Link/        │
│     10bit               │
│                         │
│   ○Dual  Link           │
│                         │
└─────────────────────────┘
```

2-2. Making Use of USB (Universal Serial Bus)

This monitor provides a hub which supports the USB standard. When connecting to a USB compliant PC or another hub, the monitor functions as a hub to which the USB compliant peripherals can be easily connected.

## Required system environment

- PC equipped with USB ports or another USB hub connected to the USB compliant PC
- Windows 2000/XP/Vista/7/8 // Mac OS 9.2.2 and Mac OS X 10.2 or later
- USB Cable (MD-C93, enclosed)

NOTE

- The USB hub function may not work properly depending on the PC or peripherals. Please consult the manufacturer of each device about the USB support.
- Using the USB Rev. 2.0 compatible PC or peripherals is recommended.
- If the monitor is in the power saving mode, or if the monitor is connected to the power outlet with the monitor turned off, all the devices connected to the USB ports (upstream and downstream) work. Therefore, power consumption of the monitor varies with connected devices even in the power saving mode.
- The followings are procedures for the Windows 2000/XP/Vista/7/8 and Mac OS.
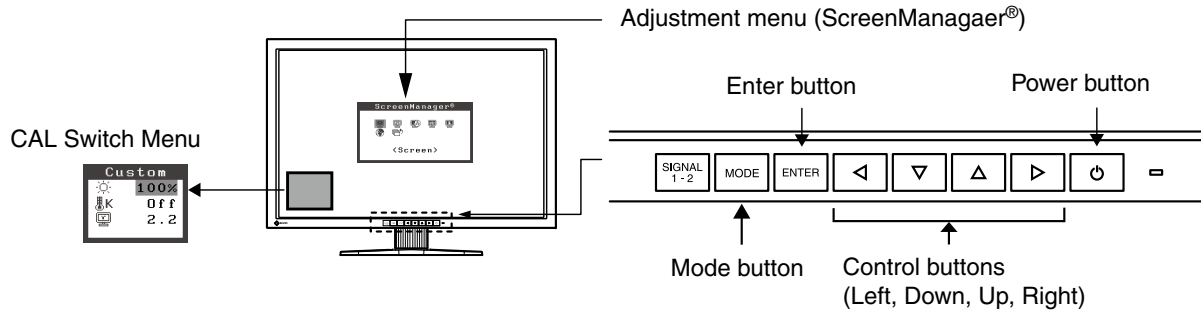
Connecting to the USB HUB

1   **Connect the monitor to the PC with the signal cable first, then turn on the PC.**

2   **Connect the upstream port of the monitor to the downstream port of the USBcompliant PC or another hub by using the USB cable.**

After connecting the USB cable, the USB function can be set up automatically.

3   **After setting up, the monitor's USB hub is available for connecting USB compliantperipherals to the downstream ports of the monitor.**

Upstream

Downstream
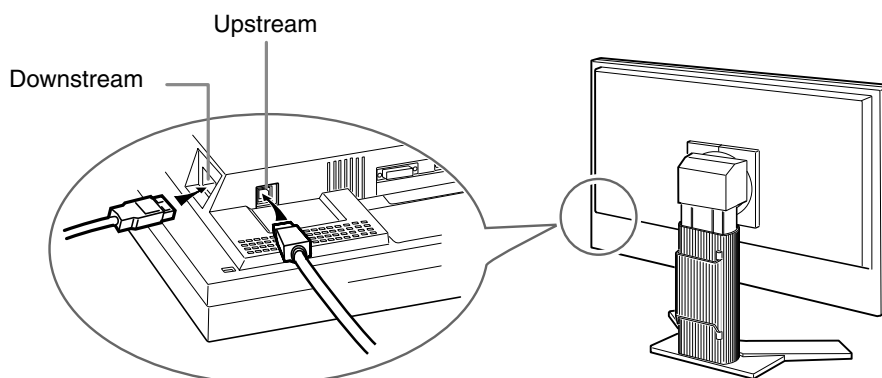
3. Screen Adjustment and Settings

3-1. Basic Operation and Functions

Adjustment menu allows you to adjust screen performance though the main menu and select a CAL Switch mode easily.

Adjustment menu (ScreenManagaer®)

Enter button   Power button

CAL Switch Menu

Mode button   Control buttons
(Left, Down, Up, Right)

NOTE

•The Adjustment menu and the CAL Switch menu cannot be displayed at the same time.

---

1   **Entering the Adjustment menu**

Press ᴇɴᴛᴇʀ once to display the main menu of the Adjustment menu.

2   **Making Adjustments and Settings**

1. Select the desired sub menu icon using ◁ ▽ △ ▷ and press ᴇɴᴛᴇʀ. The sub menu appears.

2. Use ◁ ▽ △ ▷ to select the desired setting icon and press ᴇɴᴛᴇʀ. The setting menu appears.

3. Use ◁ ▽ △ ▷ to make all required adjustments and press ᴇɴᴛᴇʀ save the settings.

3   **Exiting the Adjustment menu**

1. To return to the main menu, select the <Return> icon or press ▽ twice, followed by ᴇɴᴛᴇʀ.

2. To exit the Adjustment menu, select <Exit> icon or press ▽ twice, followed by ᴇɴᴛᴇʀ.

Tips

•Double clicking ᴇɴᴛᴇʀ at any time also exits the Adjustment menu.

Functions

The following table shows all the Adjustment menu's adjustment and setting menus.

Main menu	Sub menu		Reference
Setup	Mode Preset		Setting CAL Switch Mode Display Settings
	Input Signal		Set the input signal selection of automatic or manual.
Color(Custom)[1]	Brightness		3-2. Color Adjustment
	Temperature		
	Gamma		
	Saturation		
	Hue		
	Gain		
	6 Colors		
	Reset		
PowerManager	DVI DMPM		3-3. Power-save Setup
	OFF		
Others	Screen Size		3-7. Displaying Lower Resolutions
	Smoothing		
	Border Intensity		
	Off Timer		Set the monitor's Off Timer to on or off.
	Menu Settings	Menu Size	Change the size of the menu.
		Menu Position	Adjust the menu position.
		Menu Off Timer	Set the menu displaying time.
		Translucent	Set the transparency of the background.
		Orientation	Set the orientation of the Adjustment menu.
	Power Indicator		Make non-light for blue lighting when the screen is displayed (Power Indicator Setting).
	Reset		Return to the factory Default settings.
Information	Information		Review the Adjustment menu's settings, model name, serial number and usage time.[2]
Language	English, German, French, Spanish, Italian, Swedish, Chinese(Simplified), Chinese(Traditional) and Japanese		Select the Adjustment menu's language.

[1] The adjustable functions on the <Color> menu depend on the selected CAL Switch mode. The above table shows the sub menus when the "Custom" mode is selected (See "3-2. Color Adjustment").

[2] Due to the inspection on the factory, the usage time may not "0 hour" at shipping.

3-2. Color Adjustment

Simple Adjustment [CAL Switch mode]

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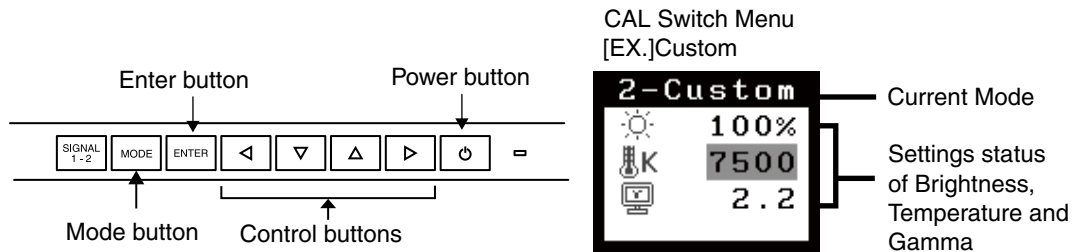
To select CAL Switch mode

Directly pressing `MODE` allows you to select the best suited mode for screen display from 4 CAL Switch modes; DICOM, Custom, CAL, and Text.
Press `ENTER` to exit the menu.

```
->DICOM -> Custom ->CAL ->Text
```

Tips

• The Adjustment menu and the CAL Switch mode name cannot be displayed at the same time.

CAL Switch Mode

Selectable CAL Switch modes are as follows.

Mode	Purpose
DICOM	Select this option to display images in the DICOM mode.
Custom	Available for making desired setting.
CAL	Used for monitor calibration.
Text	Suitable for displaying texts for word processing or spreadsheets.

Color Adjustment of the Mode Settings

<Brightness>, <Temperature> and <Gamma> settings can be adjusted on the CAL Switch menu. Select the desired function icon with $\boxed{\nabla}$ $\boxed{\triangle}$ and adjust with $\boxed{\triangleleft}$ $\boxed{\triangleright}$. (Setting(s) of <Temperature> and/or <Gamma> is defined as standard default in some modes.

NOTE

• "CAL" mode can be adjusted only by Calibration Software.

Advanced Adjustments[Adjustment menu]

Color settings of each CAL Switch mode can be adjusted and saved by using the <Color> menu of the Adjustment menu.

Adjustment Items

The adjustable items and displayed icons on the <Color> menu depend on the selected CAL Switch mode.

" √ ": Settable/Adjustable " - ": Fixed at the factory

Icons	Functions	CAL Switch Mode			
		DICOM	Custom	CAL	Text
☼	Brightness*	√	√	√	√
K	Temperature*	-	√	-	√
	Gamma*	-	√	-	√
	Saturation	-	√	-	√
	Hue	-	√	-	√
	Gain	-	√	-	-
	6 Colors	-	√	-	-
	Reset	√	√	-	√

* These settings can be also adjusted on the CAL Switch menu. (See CAL Switch.)

NOTE

• Allow the LCD monitor to stabilize for at least 30 minutes before making image adjustments. (Allow the monitor to warm up for at least 30 minutes before making adjustments.)

• The values shown in percentages represent the current level within the specific adjustment. They areavailable only as a reference tool. (To create a uniform white or black screen, the percentages for each will probably not be the same.)

Adjustment Contents

Menu	Function Descriptions	Adjustable range
Brightness	To set the brightness of the screen	0~100%
	Tips • The values shown in the "%" are available only as reference.	
Temperature	To set the color temperature	6000K~15000K in 500 K increments (including 9300 K)
	Tips • The values shown in the Kelvin are available only as a reference tool. • While color temperature is adjusted, <Gain> is adjusted automatically according to the color temperature. • Setting the temperature under 6000 K or over 15000 K invalidates the color temperature setting. (The color temperature's setting turns "Off".) • Setting the <Gain> invalidates the <Temperature> adjustment.	
Gamma	To set the gamma value	1.8~2.6
Saturation	To change the saturation	-100~100 Setting the minimum level (-100) turns the image to the monochrome.
	NOTE • The <Saturation> adjustment may cause undisplayable color tone.	
Hue	To change the flesh color, etc.	-100~100
	NOTE • Using <Hue> adjustment may not obtain proper tone reproduction.	
Gain	To change each color (red, green and blue)	0~100% By adjusting the red, green and blue color tones for each mode, custom colors can be defined. Display a white or gray background image and adjust the <Gain>.
	Tips • The values shown in the "%" are available only as reference. • The <Temperature> setting invalidates this setting. The <Gain> setting varies with color temperature.	
6 Colors	To adjust <Saturation> and <Hue> in each color (Red, Yellow, Green, Cyan, Blue and Magenta)	Hue: -100 ~ 100 Saturation: -100 ~ 100
Reset	To reset the color settings of the selected CAL Switch mode to the default settings.	

3-3. Power-save Setup

The <PowerManager> menu in the Adjustment menu enables to set the power-save setup.

NOTE

- Do your part to conserve energy, turn off the monitor when you are finished using it. Disconnecting the monitor from the power supply is recommended to save energy completely.
- Even if the monitor is in a power saving mode, USB compliant devices function when they are connected to the monitor's USB (both the upstream and the downstream ports). Therefore, power consumption of the monitor will change according to the connected devices even if the monitor is in a power saving mode.

This monitor complies with the "DVI DMPM"

[Procedure]

1. Set the PC's power saving settings.

2. Select "DVI DMPM" from the <PowerManager> menu.

[Power Saving System]

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

PC	Monitor	Power Indicator
Operation	Operation	Blue
Power saving	Power saving	Orange

[Power Resumption Procedure]

Operate the mouse or keyboard to return to a normal screen.

3-4. Off Timer

The off timer function causes the monitor to automatically enter a power off state after a predetermined amount of time has lapsed. This function was created to reduce Afterimage characteristics that are particular to LCD monitors when the monitor screen is left on for a long period without use.

## [Procedure]

1. Select <Off Timer> in the Adjustment menu <Others> menu.

2. Select "Enable" and touch the Right and Left directing switches to adjust the operating time (1 to 23 hours).

[Off Timer System]

PC	Monitor	Power Indicator
Operating time (1H - 23H)	Operation	Blue
Last 15 min. in operating time	Advance Notice [*1]	Flashing blue
Operating time expired	Power Off	Flashing orange slowly

[*1] When ⏻ is pressed during the advance notice period, the monitor continues to operate for additional 90 minutes. Extension of operation time can be set without limitation.

[Power Resumption Procedure]

Press ⏻ to return a normal screen.

NOTE

• The off timer function works while the PowerManager is active, but there is no advance notice before the monitor's power is turned off.

3-5. Locking the Settings

Use the "Adjustment Lock" function to prevent any accidental changes.

Buttons that can be locked	• ENTER (Enter button) / Adjustments/settings using Adjustment menu
Buttons that cannot be locked	• SIGNAL 1·2 (Input Signal Selection button)
	• MODE (Mode button)
	• ⏻ (Power button)

[How to lock]

1. Press ⏻ to turn off the unit.

2. Press ⏻ again while pressing MODE .
   The screen is displayed with the adjustment lock.

[How to unlock]

1. Press ⏻ to turn off the unit.

2. Press ⏻ again while pressing MODE .
   The screen is displayed with the adjustment lock released.

NOTE

• The adjustment lock function may activate when calibration is performed with the calibration kit. The monitor can be unlocked using the same unlocking procedure described above.

3-6. Power Indicator Setting

Light off the power indicator. This function is available for the multiple panels settings.

[Procedure]

1. Select <Power Indicator> in the Adjustment menu <Others> menu.

2. Select "Disable".

3-7. Displaying Lower Resolutions

The lower resolutions are enlarged to full screen automatically. Using the <Screen Size> function in the <Others> menu enables to change the screen size.

1 **Enlarge the screen size when displaying a low resolution.**

→ ⊡ Select the <Screen Size>.
Select the <Screen Size> in the <Others> menu and select the screen size by using △ and △ .

Mode	Function
Full	Displays the picture on the screen in full, irrespective of the picture's resolution. Since the verticalresolution and the horizontal resolution are enlarged at different rates, some images may appeardistorted.
Enlarged	Displays the picture on the screen in full, irrespective of the picture's resolution. Since the vertical resolution and horizontal resolution are enlarged at same rates, some horizontal or vertical image maydisappear.
Normal	Displays the picture at the actual Screen resolution.

Example: Displaying Image size 1280 × 1024 when setting "Single Display" in <Display Setup>.

Full (Default Setting)	Enlarged	Normal
(2560× 1600)	(2000 × 1600)	(1280 × 1024)
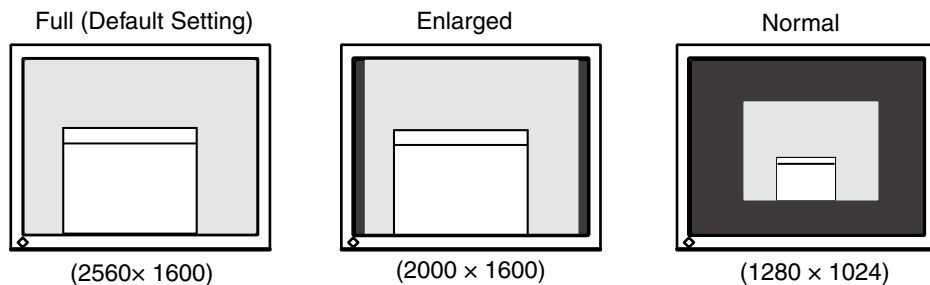
2 **Smooth the blurred texts of the enlarged screen.**

→ ▦ Switch the <Smoothing> setting.
Select the suitable level from 1 - 5 (Soft - Sharp).
Select <Smoothing> in the <Screen> menu and adjust by using the right and left switches.

NOTE

• Smoothing setting may not be required depending on the display resolution. (You cannot choose the smoothing icon.

3 **Set the brightness of the black area surrounding the displayed image.**

→ ⬛ Set the <Border Intensity>.

In the "Enlarge" mode or "Full Screen" mode, the outer area (border) is usually black. Select <BorderIntensity> in the <Others> menu and adjust by using ◁ ▷ .

Border
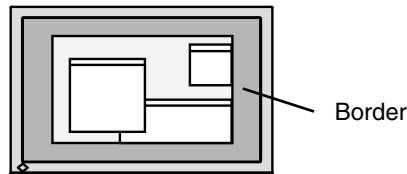
3-8. Setting the Orientation of the Adjustment Menu

The orientation of the Adjustment menu can be changed.

[Procedure]

1. Select <Menu Settings> in the Adjustment menu <Others> menu.

2. Select <Orientation> in the <Menu Settings> menu.

3. Use ▽ △ to select between "Portrait" and "Landscape".

4. Turn the monitor screen 90° in clockwise direction.

NOTE

• Be sure to turn the monitor screen after pulling up the screen to the uppermost position of the stand and setting the screen tilted upward.
• Be sure that the cables are correctly connected.

Tips

• For using the monitor with "Portrait" position, the graphics board supporting portrait display is required. When using the monitor with "Portrait" position, the setting needs to be changed depending on the graphics board used in your PC. Refer to the manual of the graphics board for details.

3-9. Displaying EIZO logo

When switching on the power button on the front control panel, the EIZO logo is displayed for a while. If you desire to display or undisplay this logo, use this function.
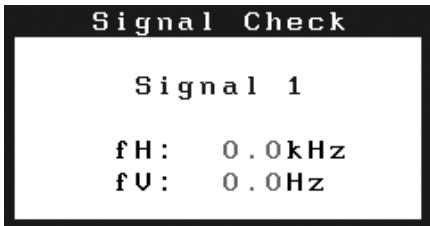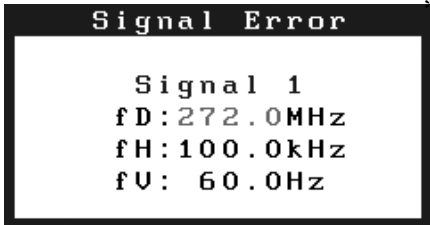
[Procedure]

1. Press ⏻ to turn off the monitor.

2. Press ⏻ holding ENTER down to turn on the monitor.
   The EIZO logo display setting is toggled by performing the operation in step 2.

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.9
- •Other problems : See No.10 - No.12
- •USB problems : See No.13, No.14

Problems	Possible cause and remedy
1. No picture •Power indicator does not light.	• Check whether the power cord is connected correctly. If the problem persists, turn off the monitor, and then turn it on again a few minutes later. • Press ⏻ .
•Power indicator is lighting blue.	• Set each RGB adjusting value in <Gain> to higher level.(page 20).
•Power indicator is lighting orange.	• Switch the input signal with ⌹SIGNAL 1·2 . • Operate the mouse or keyboard. • Turn on the PC.
•Power indicator flashes orange.	• Press ⏻ .
2. The message below appears.	This message appears when the signal is not input correctly even when the monitor functions properly.
| •This message appears when no signal is input.<br>  (This is displayed for about 40 seconds)<br><br>```
Signal  Check

Signal 1

fH:    0.0kHz
fV:    0.0Hz
```<br>*In Dual Display mode, the display of the error message is shown by ◀ or ▶ . | • The message shown left may appear, because some PCs do not output the signal soon after power-on.<br>• Check whether the PC is turned on.<br>• Check whether the signal cable is connected properly.<br>• Switch the input signal with ⌹SIGNAL 1·2 . |
| •The message below shows that the input signal is out of the specified frequency range. (Such signal frequency is displayed in red.)<br>  Example:<br><br>```
Signal  Error

Signal 1
fD:272.0MHz
fH:100.0kHz
fV: 60.0Hz
```<br>*In Dual Display mode, the display of the error message is shown by ◀ or ▶ . | • Reboot the PC.<br>• Select an appropriate display mode using the graphics board's utility. Refer to the manual of the graphics board for details. |
| 3. Characters are blurred. | • Adjust using <Smoothing> (page 23). |
| 4. The screen is too bright or too dark. | • Adjust <Brightness>. (The LCD monitor backlight has a fixed life span. When the screen becomes dark or begins to flicker, contact your local dealer.) |

Problems	Possible cause and remedy
5.Afterimages appear.	• Use a screen saver or off timer function for a long-time image display. • Afterimages are particular to LCD monitors. Avoid displaying the same image for a long time.
6.Green/red/blue/white dots or defective dots remain on the screen.	• This is due to LCD panel characteristics and is not a failure.
7.Interference patterns or fingerprints remain on the screen.	• Leave the monitor with a white screen or a black screen. The symptom may disappear.
8.Noise appears on the screen.	• When entering the signals of analog input, select 1 to 4 in <Signal Filter> from the <Screen> menu to change the mode.
9.The display image is appeared in lengthwise.	• Check whether the kind of cables connected with the monitor and the PC.
10.The <Smoothing> icon on the Adjustment menu <Screen> cannot be selected.	• Smoothing setting may not be required depending on the display resolution. (You cannot choose the smoothing icon.
11.The Main menu of Adjustment menu does not start.	• Check for Adjustment Lock function (page 22).
12.The CAL Switch mode is not displayed.	• Check for Adjustment Lock function (page 22).
13.PC is hung up. / The peripherals connected to the downstream ports do not operate.	• Check that the USB cable is correctly connected. • Check the downstream ports by connecting the peripherals to other downstream ports. If the problem is solved by doing this, contact an EIZO dealel (For details, refer to the manual of the PC). • Try executing the following method. •Restarting the PC •Connecting the PC and peripherals directly •If the problem is solved by doing this, contact an EIZO dealer.
14.USB function cannot be setup.	• Check that the USB cable is correctly connected. • Check that the PC and OS are USB compliant (For verification of USB support, consult the manufacturer of each system). • Check the PC's BIOS setting for USB (For details, refer to the manual of the PC).

5. Reference

5-1. Attaching an Arm

The LCD monitor can be used with an arm by removing the tilt stand and attaching the arm stand to the LCD monitor.

NOTE

- 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 45 degrees, down 45 degrees (Within operating range)
- Please connect cables after attaching an arm stand.
- Since the monitor and arm are so heavy, dropping them may result in injury or equipment damage.

Setup Procedure

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 stand to the monitor with four screws using a screwdriver.

5-2. Specifications

LCD Panel		76 cm (29.8 inch), TFT color LCD panel Surface treatment : Anti-Glare Hard Coating Surface hardness : 3H Response Time : 12ms	
Panel Protector (MX300W-C)		Surface treatment: Anti-reflective coating (both sides) Surface hardness: 3H or higher Visible reflectance: 0.8% or less Visible light transmittance: 95% or more	
Viewing Angle		Horizontal : 178°, Vertical : 178°(CR: 10 or more)	
Dot Pitch		0.2505mm	
Horizontal Scan Frequency		31~100 kHz	
Vertical Scan Frequency		25.5 ~ 61 Hz (VGA TEXT: 69 ~ 71 Hz)	
Resolution		2560 dots x 1600 lines	
Display Colors		16.77 million colors (max.)	
Display Area		641.2 mm (H) × 400.8 mm (V) (25.2" (H) x 15.8" (V))	
Power Supply		100-120 VAC±10%, 50/60 Hz, 1.6A-1.3A (with USB)	
		200-240 VAC±10%, 50/60 Hz, 0.75A-0.65A (with USB)	
Power Consumption	Screen Display On	170 W (with USB)	
	Power Saving Mode	Less than 2 W (for single signal input without USB)	
	Power switch Off	1W or less	
Input Signal Connector		SIGNAL 1:DVI-D, Dual Link	
		SIGNAL 2:DVI-D, Single Link (HDCP compliant)	
Input Signal (Digital)		TMDS	
Signal registration		11	
Plug & Play		VESA DDC 2B / EDID structure 1.3	
Environment Conditions	Temperature	Operating Transportation/Storage	: 0°C ~ 35°C (32°F ~ 95°F) : -20°C ~ 60°C (-4°F ~ 140°F)
	Humidity	Operating Transportation/Storage	: 30% to 80% R.H. Non-condensing : 30% to 80% R.H. Non-condensing
	Pressure	Operating Transportation/Storage	: 700 to 1060 hPa. : 200 to 1060 hPa.
USB	standard	USB Specification Revision 2.0	
	USB port	Upstream port x 1 Downstream port x 2	
	Communication Speed	480 Mbps (high), 12 Mbps (full), 1.5 Mbps (low)	
	Power Supply	Downstream: 500 mA for each (max.)	
Classification of Equipment		Type of protection against electric shock : Class I	
		EMC class: EN60601-1-2:2007 Group 1 Class B	
		Classification of medical device (MDD 93/42/EEC) : Class I	
		Mode of operation : Continuous	
		IP Class : IPX0	
MX300W			
Dimensions	with stand	689 mm (W) x 511 ~ 629.5 mm (H) x 254.7 mm (D) (27.1"(W) x 20.1" ~ 24.8" (H) x 10"(D))	
	without stand	689 mm (W) x 450 mm (H) x 90 mm (D) (27.1"(W) x 17.7" (H) x 3.54"(D))	
Weight	with stand	15.7 kg (34.6lbs.)	
	without stand	11.2 kg (24.7 lbs.)	

MX300W-C		
Dimensions	with stand	689 mm (W) x 511 ~ 629.5 mm (H) x 254.7 mm (D) (27.1"(W) x 20.1" ~ 24.8" (H) x 10"(D))
	without stand	689 mm (W) x 450 mm (H) x 90 mm (D) (27.1"(W) x 17.7" x 3.54"(D))
Weight	with stand	16.4 kg (36.2 lbs.)
	without stand	11.9 kg (26.2 lbs.)

Dimensions

unit: mm(inch)

Default settings

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

		Brightness	Temperature	Gamma
DICOM	MX300W	: 170 cd/m^2	7500K	DICOM
	MX300W-C	: 150 cd/m^2		
Custom	MX300W	: approx.225 cd/m^2	7500K	2.2
	MX300W-C	: approx.200 cd/m^2		
CAL	MX300W	: 170 cd/m^2	7500K	DICOM
	MX300W-C	: 150 cd/m^2		
Text	MX300W	: approx.100 cd/m^2	7500K	2.2
	MX300W-C	: approx.100 cd/m^2		

Others

Smoothing		3
PowerManager		DVI DMPM
Screen Size		Full
Off Timer		Disable
Menu Settings	Menu Size	Normal
	Menu Off Timer	45 sec
Language		English
Display Setup		Single Display
Signal Selection		Dual Link

Optional

Calibration Kit	EIZO "RadiCS UX1" Ver.3.2.2 or later
Network QC Management Software	EIZO "RadiNET Pro" Ver.3.2.2 or later
Cleaning Kit	EIZO "ScreenCleaner"

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

http://www.eizo.com

Pin Assignment

•DVI-D Connector

SIGNAL1 : Applicable to DualLink

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

(*NC: No Connection)

SIGNAL2 : Applicable to SingleLink only

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

(*NC: No Connection)

•USB Port

Upstream

Downstream

Series B Connector

Series A Connector

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

5-3. Glossary

DICOM (Digital Imaging and Communication in Medicine)

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

DVI (Digital Visual Interface)

A digital flat panel interface. DVI can transmit digital data from the PC directly without loss with the signal transition method "TMDS". There are two kinds of DVI connectors. One is DVI-D connector for digital signal input only. The other is DVI-I connector for both digital and analog signal inputs.

DVI DMPM (DVI Digital Monitor Power Management)

The Power management system for the digital interface. The "Monitor ON" status (operation mode) and the "Active Off" status (power-saving mode) are indispensable for the DVI-DMPM as the monitor's power mode.

Gain Adjustment

Adjusts each color parameter for red, green and blue. The color of the LCD monitor is displayed through the color filter of the LCD panel. Red, green and blue are the three primary colors. The colors on the monitor are displayed by combining these three colors. The color tone can change by adjusting the illumination amount passed through each color's filter.

Gamma

Generally, the relationship that the light intensity values of a monitor change nonlinearly to the input signal level is called "Gamma Characteristic". On the monitor, low gamma values display the whitish images and high gamma values display the high contrast images.

HDCP (High-bandwidth Digital Contents Protection)

Digital signal coding system developed to copy-protect the digital contents, such as video, music, etc. This helpsto transmit the digital contents safely by coding the digital contents sent via DVI terminal on the output side anddecoding them on the input side.Any digital contents cannot be reproduced if both of the equipments on the output and input sides are not applicableto HDCP system.

Resolution

The LCD panel consists of a fixed number of pixel elements which are illuminated to form the screen image. This monitor consists of 2560 horizontal pixels and 1600 vertical pixels. At a resolution of 2560 x 1600, all pixels are displayed as a full screen.

Temperature

Color Temperature is a method to measure the white color tone, generally indicated in degrees Kelvin. At high temperatures the white tone appears somewhat blue, while at lower temperatures it appears somewhat red. Computer monitors generally give best performance at high temperature settings.

5000 K: Slightly reddish white.
6500 K: Warm-white tone, similar to white paper or daylight.
9300 K: Slightly bluish white.

TMDS (Transition Minimized Differential Signaling)

A signal transition method for the digital interface.

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

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 on the monitor side.

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

FCC Declaration of Conformity

We, the Responsible Party	EIZO Inc.
	5710 Warland Drive, Cypress, CA 90630
	Phone: (562) 431-5011
declare that the product	Trade name: EIZO
	Model: RadiForce MX300W

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 le classe B est comforme à la norme NMB-003 du Canada.

EMC Information

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

⚠ CAUTION

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

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

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

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

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

Guidance and manufacturer's declaration - electromagnetic emissions

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

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

Guidance and manufacturer's declaration - electromagnetic immunity

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

Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) EN61000-4-2	±6kV contact ±8kV air	±6kV contact ±8kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient / burst EN61000-4-4	±2kV for power supply lines ±1kV for input/output lines	±2kV for power supply lines ±1kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge EN61000-4-5	±1kV line(s) to line(s) ±2kV line(s) to earth	±1kV line(s) to line(s) ±2kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines EN61000-4-11	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5sec	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the RadiForce series requires continued operation during power mains interruptions, it is recommended that the RadiForce series be powered from an uninterruptible power supply or a battery.
Power frequency (50/60Hz) magnetic field EN61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

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

Guidance and manufacturer's declaration - electromagnetic immunity

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

Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF EN61000-4-6	3Vrms 150kHz to 80MHz	3V	Portable and mobile RF communications equipment should be used no closer to any part of the RadiForce series, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF EN61000-4-3	3V/m 80MHz to 2.5GHz	3V/m	
			Recommended Separation distance
			$d = 1.2 \sqrt{P}$
			$d = 1.2 \sqrt{P}$, 80MHz to 800MHz
			$d = 2.3 \sqrt{P}$, 800MHz to 2.5GHz
			Where "P" is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and "d" is the recommended separation distance in meters (m).
			Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey[a], should be less than the compliance level in each frequency range[b].
			Interference may occur in the vicinity of equipment marked with the following symbol.

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

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

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

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

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

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

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

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

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

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

Cable length		
Power Cord :	Accessary	2.0m
Signal Cable (DD200DL-BK) :	Accessary	2.0m
USB Cable (MD-C93) :	Accessary	1.8m

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