The EIZO Brand

Since our beginnings as an OEM manufacturer of black and white televisions in 1968, EIZO has been researching and developing visual display products. In 1981, we released our first CRT monitor for personal computers. And in 1985, we launched products for the European and American markets under the universal brand name “EIZO”. Today, EIZO monitors are highly regarded in various fields throughout the world because of their accurate and stable image display and innovative features.

Added Value

With our general-purpose FlexScan monitors at the core of our product lineup, we continue to develop products with added value that meet the advanced needs of specialized fields. The technologies we develop for specialized fields are further developed for each business unit so we can be first to market with new products.

Future Focused

EIZO’s complete spectrum of RadiForce medical monitor solutions delivers exceptionally accurate and stable image display at leading hospitals around the world.

Our commitment to technology, innovation includes making products that are as ergonomically, environmentally, and economically-friendly as possible.

With the shift to completely filmless systems for improved efficiencies in patient care, EIZO will continue to provide products of unsurpassed quality, consistency and value that are truly bizarre focused.
Selecting the Optimum Monitors for Hospitals

Display Differs Depending Upon Grayscale Tones
In a filmless environment, digitized medical images are displayed anywhere within networked hospitals. Monitors have grayscale tone characteristics which may vary even between the same models. A unified standard is required to display images properly and consistently, and Digital Imaging and Communications in Medicine (DICOM) Part 14 is used as a standard to adjust the grayscale tone characteristics of monitors used in the medical field.

Quality Required for Monitor to Display Medical Images
When DICOM Part 14 medical images are displayed on standard monitors, they may not offer refined rendering of subtle shadings, unified display between multiple monitors, or rendering consistency over time.

1. Do you get refined rendering of subtle shadings?
2. Do you get unified display between multiple monitors?
3. Do you get rendering consistency over time?

RadiForce Diagnostic Monitors are Compliant with DICOM Part 14
When displaying medical images, it is important that you select monitors offering refined rendering of subtle shadings, unified display between multiple monitors, and rendering consistency over time. The grayscale tones for each RadiForce diagnostic monitors are adjusted at the factory. Furthermore, they are calibration compliant with the DICOM Part 14 to ensure continuing monitor quality control.

Selecting the Optimum Diagnostic Monitor

Information Volume of Medical Images and Monitors
Information volume of the medical image differs depending on the modality which creates the image. When installing monitors in your hospital, it is important to consider the “information volume” of the medical images that the monitor needs to display. For example, a 1 megapixel monitor can display 4 slices of CT with an information volume of 512 x 512 pixels, a 2 megapixel monitor can display 6 slices, and a 3 megapixel monitor can display 12 slices without losing any of the information.

RadiForce with the Selection of Optimum Diagnostic Monitors
It is important to select the monitor which suits the medical images. With RadiForce diagnostic monitors, you can select the optimum monitor which is suited for the information volume of the medical image you need to display.
RadiForce G&R-Series Diagnostic Monitors

RadiForce G&R-Series specially designed 1, 2, 3, 4, 5, 8 and 10 megapixel monochrome and color monitors take full account of medical institutions’ need for different types of monitors with DICOM Part 14 standard calibration and high-performance capabilities required for confident diagnosis.

Common Features

High-Definition Images

Diagnostic Precision with DICOM Part 14 Factory Adjustment

To ensure the most accurate and consistent shadings possible, EIZO carefully measures and sets every grayscale tones on the production line to produce a monitor compliant with DICOM Part 14.

Consistency with DICOM Part 14 Calibration

With the bundled RadiCS LE quality control software, a simplified calibration compliant with the DICOM Part 14 standard can be performed to correct the brightness and grayscale tones of the monitor ensuring the most accurate and consistent shadings possible over time.

Backlight Sensor

Main Board

Backside of Panel

Hole for Light Transmission

Minutes

Brightness

With Brightness stabilization

Without Brightness stabilization

Preset Value

Without DUE

With DUE

Brightness Uniformity for a Steadier Image Across the Screen

The Digital Uniformity Equalizer (DUE) function provides optimum backlight luminance uniformity which is difficult to attain due to the characteristics of LCD monitors.

All models except the SMD 19102 and RS110.

RadiCS LE not bundled with GX1030 or SMD 19102.

Wide Viewing Angles for Multiple People Use

Wide Viewing angles with minimal color shift when viewed from the side.

Quick Brightness Stabilization for Instant Viewing

At startup or upon wakeup, the EIZO patented drift correction function quickly stabilizes the brightness level. In addition, a sensor measures the backlight brightness and compensates for brightness fluctuations caused by the ambient temperature and the passage of time.

Ergonomic Features

Versatile Positioning for Improved Operability and Less Fatigue

EIZO’s highly versatile stand offers tilt, swivel, portrait rotation, and a wide height adjustment range enabling you to use the monitor with greater comfort.

Mode Selection for Optimum Viewing

Selectable with the front panel buttons, the CAL Switch function allows for various modes of different modalities such as CR, CT, and endoscopes images.

Text Mode

Brightness : 150 cd/m²

Grayscale : \(R^* = 2.2\)

ES Mode

Brightness : 200 cd/m²

Grayscale : \(R^* = 2.2\)

CR Mode

Brightness : 400 cd/m²

Grayscale : DICOM Part 14

CT Mode

Brightness : 300 cd/m²

Grayscale : DICOM Part 14

Brightness : 300 cd/m²

Grayscale :

Text Mode

Brightness : 100 cd/m²

Grayscale : \(R^* = 2.2\)

ES Mode

Brightness : 200 cd/m²

Grayscale : \(R^* = 2.2\)

CR Mode

Brightness : 400 cd/m²

Grayscale : DICOM Part 14

CT Mode

Brightness : 300 cd/m²

Grayscale : DICOM Part 14

Text Mode

Brightness : 100 cd/m²

Grayscale : \(R^* = 2.2\)
Presence Sensor for Power Savings

The presence sensor feature unites convenience with savings by ensuring that the monitor conserves power when it is not in use. The presence sensor prompts the monitor to switch to power save mode when it detects the user is away from the monitor, and then resume normal operation when the user returns.

All models except the GX2030 and SMD-1910. Up-the-feeding sensor G2 (sold separately) necessary for RS210 and RS110.

High Quality Assurance

Validated Graphics Boards

EIZO-recommended graphics boards come with drivers that have validated for use with RadiForce monitors. This contributes to smooth installation of monitors into the hospital systems where high reliability and stable operation are required.

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All models except the GX2030 and SMD-1910. Up-the-feeding sensor G2 (sold separately) necessary for RS210 and RS110.

Brightness Stability Within Usage Time Guaranteed

EIZO's confidence in its product quality extends to brightness stability which is also covered during the usage time specified in the warranty for each product.

Customer Assurance with Medical Standards

Meets the strictest medical, safety, and EMC emission standards.

ISO 13485 Certification

Acquiring ISO 13485 certification demonstrates EIZO’s ability to consistently meet customer requirements for our products and services.

Warranty with Safety and Trust

EIZO and its authorized distributors offer a five-year limited warranty.

Switch to power save at user’s absence

Screen activates at user’s presence

Validated Graphics Boards

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With its widescreen format, the RadiForce GX1030 is an optimal replacement for dual head 5 megapixel display installations. Featuring high definition, high resolution and multi-grayscale, the RadiForce GX530 is designed specifically for displaying digital mammography images.

**High-Resolution**

"Information volume" of a digital mammography image should exceed 5 million pixels. When a lower resolution monitor displays this "information volume," the monitor stretches the information forcing the mosaic to appear as shadings. With a 2048 x 2560 resolution or 5.24 million pixels, the stretching effect is minimized and the mosaic becomes suitable for rendering subtle masses and calcifications, within the mammography image.

**Two Monitors in One**

With its 10 megapixel widescreen, the RadiForce GX1030 is an optimal replacement for traditional dual head 5 megapixel monitor installations. It is ideally suited for displaying digital mammography or other large and finely detailed DICOM images.

**Finest Details with Mono-Pixel Design**

Thanks to its unique Mono-Pixel design and a pixel pitch size of just 0.158 mm, the RadiForce GX1030 offers exceptionally high brightness levels and a wide aperture ratio to bring out the finest details with a smooth, clear representation.

**Easy Calibration with Integrated Front Sensor**

An Integrated Front Sensor housed within the front bezel performs calibration compliant to DICOM Part 14. The sensor does not interfere with the viewing area and is protected from inadvertent damage or removal.

**10-Bit Simultaneous Grayscale Display**

10-bit (1,024 tones) simultaneous grayscale display extends grayscale fidelity to the boundaries of human visual perception abilities and helps radiologists discern the finest nuances within an image.

---

GX1030 78 cm (30") Monochrome LCD Monitor

GX530 64 cm (25.3") Monochrome LCD Monitor

**10MP Monitor x 2** **5MP Monitor x 1**

**54 cm (21.3") Monochrome LCD Monitor**

---

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**10-Bit Simultaneous Grayscale Display**

10-bit (1,024 tones) simultaneous grayscale display extends grayscale fidelity to the boundaries of human visual perception abilities and helps radiologists discern the finest nuances within an image.
The RadiForce RX840 is a new 8 megapixel super high resolution diagnostic color monitor for versatile medical imaging. The high resolution of 4 megapixels gives RadiForce RX430 the same amount of screen size and number of pixels as two 2 megapixel monitors in portrait mode but without the obtrusive bezels.

8 Megapixel Super-High-Resolution Display
Within its 36.4-inch screen size, RadiForce RX840 is capable of displaying 8 megapixels (4096 x 2160 native resolution) of information volume without the obtrusive bezels. The monitor gives plenty of room to display all necessary imaging applications or windows at once.

4 Megapixel Bezel-Less Widescreen
The screen size and native resolution of 4 megapixels give this monitor the same amount of screen size and number of pixels as two 2 megapixel monitors in portrait mode but without the obtrusive bezels. This simplifies comparing images or allows for showing more information within one screen.

Color and Monochrome Images with Separate Gamma Curves
EIZO’s unique Hybrid Gamma function distinguishes whether the images being displayed are monochrome or color and displays each image in optimum brightness and grayscale tones. This expands the usability of PACS applications constantly attaining sufficiency with mix of color and monochrome medical images.

Accuracy in distinguishing between grayscale and color images depends on how these are adopted. Viewer software compatibility verification is required.

Longer Service Life with LED Backlight
Unlike conventional CCFL backlights, LED backlights deteriorate more slowly and thus the monitor offers a longer service life. This ensures stable and reliable performance that is needed for diagnostic monitors. Since the LED backlight is mercury free, it will reduce any potential impact on the environment when it is disposed of.

Easy Calibration with Integrated Front Sensor
An Integrated Front Sensor housed within the front bezel performs calibration compliant to DICOM Part 14. The sensor does not interfere with the viewing area and is protected from inadvertent damage or removal. By installing the bundled RadiCS LE software, the Integrated Front Sensor and RadiCS SelfQC function allows QC tasks to be performed by the monitor itself even when the connected workstation is switched off.

10-bit Color
The monitor can support 10-bit input for each RGB color, displaying more than one billion colors simultaneously. This ensures accurate reproduction of color tones for 3D color rendering and image fusion.

Integrated Front Sensor Display Image

DICOM Part 14
Automatically Distinguish & Display as Monochrome Image
Automatically Distinguish & Display as Color Image

SelfQC Function

RX840 92 cm (36.4") Color LCD Monitor
RX430 76 cm (30.0") Color LCD Monitor

Integrated Front Sensor

RX430

RX840
With high resolution capabilities, these 3 megapixel monitors can fully display chest X-ray images. The 3 megapixel monochrome monitor, featuring high brightness and multi-grayscale display, offers highly refined rendering of extremely delicate CR and DR grayscale shadings. The 3MP color monitor offers high brightness for accurate display of 3D and fusion color images as well as CR and MRI monochrome images.

**3MP**

**54 cm (21.3") Monochrome LCD Monitor**

**3MP**

**54 cm (21.3") Color LCD Monitor**

---

**Color and Monochrome Images**

EIZO’s unique Hybrid Gamma function distinguishes whether the images being displayed are monochrome or color and displays each image in optimum brightness and grayscale tones. This expands the usability of PACS applications constantly attaining sufficiency with mix of color and monochrome medical images.

Accuracy in distinguishing between monochrome and color images may depend on how they are aligned. Viewer software compatibility verification is required.

---

**10-bit Graphics Board and 10-bit Viewer Software Needed for 10-bit Display.**

10-bit color graphics board and 10-bit color viewer software needed for 10-bit color display.

---

**Longer Service Life with LED Backlight**

Unlike conventional CCFL backlights, LED backlights deteriorate more slowly and thus the monitor offers a longer service life. This ensures stable and reliable performance that is needed for diagnostic monitors. Since the LED backlight is mercury free, it will reduce any potential impact on the environment when it is disposed of.

---

**Easy Calibration with Integrated Front Sensor**

An integrated front sensor (IFS) housed within the front bezel measures brightness and grayscale tones and calibrates to the DICOM Part 14 standard. Without having to connect and disconnect, an IFS performs QC tasks and does not interfere with the viewing area. This dramatically cuts monitor quality control workload and maintenance costs.

---

**Displaying with Separate Brightness Levels**

For monochrome monitors, Hybrid Gamma function automatically distinguishes the medical images from the non-medical areas such as the tool palettes and displays each one at its optimum brightness. Decreasing the tool palette area’s brightness leads to less eye fatigue.

Accuracy in distinguishing between images may depend on how they are aligned. Viewer software compatibility verification is required.

---

**10-Bit Simultaneous Grayscale Display**

10-bit (1,024 tones) simultaneous grayscale display extends grayscale fidelity to the boundaries of human visual perception abilities and helps radiologists discern the finest nuances within an image.

---

**10-bit Color**

The monitor can support 10-bit input for each RGB color, displaying more than one billion colors simultaneously. This ensures accurate reproduction of color tones for 3D color rendering and image fusion.

---

**With Hybrid Gamma**

- Displayed in Same Gamma Curves
- Games 2.2
- Automatically Distinguish & Display as Monochrome Image
- Automatically Distinguish & Display as Monochrome Image

**Without Hybrid Gamma**

- Displayed in Same Gamma Curves
- Games 2.2
- Without Hybrid Gamma
2 megapixel high-resolution diagnostic monochrome monitor is ideal for a wide variety of tasks from viewing CR, DR, MRI and CT images to use as a PACS/HIS/RIS terminal. The high brightness 2 megapixel color monitor is ideal for displaying both monochrome and color images. The space-efficient 1 megapixel monitors are ideal for referral imaging and review of CT and MRI images in a distributed PACS environment.

### GX240
54 cm (21.3") Monochrome LCD Monitor

### RX240
54 cm (21.3") Color LCD Monitor

### SMD 19102
48 cm (19") Monochrome LCD Monitor

### RS110
48 cm (19") Color LCD Monitor

**Color and Monochrome Images with Separate Gamma Curves**

EIZO’s unique Hybrid Gamma function distinguishes whether the images being displayed are monochrome or color and displays each image in optimum brightness and grayscale tones. This expands the usability of PACS applications constantly attaining sufficiency with mix of color and monochrome medical images. Accuracy in distinguishing between grayscale and color images may depend on how they are aligned. Viewer software compatibility verification is required.

**Easy Calibration with Integrated Front Sensor**

An Integrated Front Sensor (IFS) housed within the front bezel measures brightness and grayscale tones and calibrates to the DICOM Part 14 standard. Without having to connect and disconnect, an IFS performs QC tasks and does not interfere with the viewing area. This dramatically cuts monitor quality control workload and maintenance costs.

**Displaying with Separate Brightness Levels**

For monochrome monitors, Hybrid Gamma function automatically distinguishes the medical images from the non-medical areas such as the tool palettes and displays each one at its optimum brightness. Decreasing the tool palette area’s brightness leads to less eye fatigue.

**Longer Service Life with LED Backlight**

Unlike conventional CCFL backlights, LED backlights deteriorate more slowly and thus the monitor offers a longer service life. This ensures stable and reliable performance that is needed for diagnostic monitors. Since the LED backlight is mercury free, it will reduce any potential impact on the environment when it is disposed of.

**10-Bit Simultaneous Grayscale Display**

10-bit (1,024 tones) simultaneous grayscale display extends grayscale fidelity to the boundaries of human visual perception abilities and helps radiologists discern the finest nuances within an image. 10-bit graphics board and 10-bit viewer software enables for 10-bit display.

**10-bit Color**

The monitor can support 10-bit input for each RGB color, displaying more than one billion colors simultaneously. This ensures accurate reproduction of color tones for 3D color rendering and image fusion.

**ToneCurve Tuning Utility**

ToneCurve Tuning Utility uses the monitor’s 10-bit look-up tables (LUT) for adjustment of grayscale and color tones to the desired values.

**Wide Range of Input Support**

Multiple input signal support, including DVI/I, BNC, D-sub mini 15 pin, and S-Video, allows for connecting with any legacy or state-of-the-art modality system.
Monitor Quality Control Solutions

Managing the quality of monitors used every day leads to the improvement of the quality of medical care itself.

With filmless imaging spreading in the medical world, there is a growing interest in maintaining the quality of monitors displaying medical images. With the know-how and experience as a specialist in monitor manufacturing, we offer state-of-the-art solutions for the quality control of monitors which will lead to the improvement of the quality of medical care itself.

Client

Managing the quality of monitors used every day leads to the improvement of the quality of medical care itself.

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### Graphics Board Compatibility

<table>
<thead>
<tr>
<th>Graphics Board</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI Express x16</td>
<td>Recommended</td>
</tr>
<tr>
<td>PCI Express x8</td>
<td>Recommended</td>
</tr>
<tr>
<td>PCI Express x4</td>
<td>Recommended</td>
</tr>
<tr>
<td>PCI Express x1</td>
<td>Recommended</td>
</tr>
</tbody>
</table>

#### Accessory Compatibility

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Wall Mount Arm</th>
<th>Dual Height Adjustable Stand</th>
<th>Panel Protector</th>
<th>Monitor Cleaning Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA-030-W</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>LA-032-W</td>
<td>—</td>
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<td>—</td>
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</tr>
<tr>
<td>RP-902</td>
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<td>RP-902</td>
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</tbody>
</table>

1. To be used with same model only. 2. Incorporated Anti-Glare type is unavailable with panel protector.

#### Specifications

**Wall Mount Arm**
- Load Capacity: 4.9 kg
- Weight: 2.8 kg
- Hole Spacing: 200 x 200 mm

**Dual Height Adjustable Stand**
- Load Capacity: 6.8 kg
- Height Adjustment Range: 75 mm, 6 stages (0/15/30/45/60/75 mm)
- Horizontal Slide Range: 80 mm max.

**Panel Protector**
- Available Colors: Black, Gray
- Surface Treatment: Anti-Glare Type

**Monitor Cleaning Kit**
- Available Colors: Black, Gray
### Specifications

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Cabinet Color</th>
<th>Panel Type</th>
<th>Panel Size</th>
<th>Display Size (H x V)</th>
<th>Pixel Pitch</th>
<th>Native Resolution</th>
<th>Display Colors</th>
<th>Viewing Angles (H, V)</th>
<th>Contrast Ratio (typical)</th>
<th>Response Time (typical)</th>
<th>Scanning Frequency (H, V)</th>
<th>Frame Synchronous Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>RadFone GX1030</td>
<td>Black</td>
<td>TFT Monochrome LCD Panel (IPS)</td>
<td>54 cm / 21.3&quot;</td>
<td>324.8 x 433.1 mm</td>
<td>0.2115 x 0.2115 mm</td>
<td>1536 x 2048</td>
<td>10-bit colors (DisplayPort): 1.07 billion (maximum) colors</td>
<td>170° / 170°</td>
<td>1,200 cd/ N</td>
<td>31 - 140 kHz, 29.5 - 30.5 Hz (2048 x 2160, 1920 x 2160), 59 - 61 Hz (1920 x 1080)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RX840</td>
<td>Black</td>
<td>TFT Monochrome LCD Panel (IPS)</td>
<td>54 cm / 21.3&quot;</td>
<td>324.8 x 433.1 mm</td>
<td>0.2115 x 0.2115 mm</td>
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<td>GX530</td>
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</tr>
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</table>

### Additional Information
- **Frame synchronous mode:** 29.5 - 30.5 Hz, 59 - 61 Hz
- **Frame synchronous mode:** 24.5 - 25.5 Hz, 49 - 51 Hz
- **Frame synchronous mode:** 29.5 - 30.5 Hz, 59 - 61 Hz
- **Frame synchronous mode:** 24.5 - 25.5 Hz, 49 - 51 Hz

Please contact the EIZO subsidiary or distributor in your country for the latest information.
### Specifications

#### Model Variations

<table>
<thead>
<tr>
<th>Model Variations</th>
<th>G235W/ CL Black</th>
<th>G235W CL – F+ Failing</th>
</tr>
</thead>
</table>

#### Cabinet Color

- Black
- Anthracite Gray

#### Panel Type

- TFT Monochrome LCD Panel (IPS)

#### Display Size (H x V)

- 376.0 x 301.0 mm
- 355.0 x 260.0 mm

#### Pixel Pitch

- 0.294 x 0.294 mm
- 0.270 x 0.270 mm

#### Native Resolution

- 1280 x 1024
- 1200 x 1600

#### Backlight Sensor

- 16.77 million colors (68 billion colors)

#### Brightness (typical)

- 290 cd/m²

#### Viewing Angle

- 176°, 176°

#### Contrast Ratio (typical)

- 1400:1

#### Input Terminals

- VESA DPM, DisplayPort 1.1a

#### Power Management

- VESA EMPII, DisplayPort 1.1a

#### Sensor

- backlight sensor, integrated front sensor

#### OSB Languages

- English, French, German, Italian, Japanese, Korean, Spanish, Brazilian

#### Net Weight (With Stand / Without Stand)

- 10.3 kg / 7.1 kg

#### Stand Capabilities

- Tilt 30°

#### Dimensions (Unit: mm)

<table>
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<th>Width</th>
<th>Height</th>
<th>Depth</th>
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</thead>
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<tr>
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#### Tilt 40°

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<tr>
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<td>348.5</td>
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</table>

### Environmental Awareness

We are conscious of the importance of environmental preservation as a common issue for all humankind and pledge to do our utmost to protect the environment in all aspects of our corporate operations. We obtained ISO 14001 certification, and all our employees are committed to the effective use of natural resources and energy, and also to reducing CO₂ emissions causing global warming.

### Manufacturing Environmentally-Friendly Products

Based on our awareness that products have an impact on the environment and our pledge to consider respect for the environment as an integral part of product quality, we have continued to lead the industry in our efforts to reduce the environmental impact of our products. In product development, we vigorously work to assure that our products comply with domestic and international legal requirements and environmental standards of third-party organizations.

### RoHS Directive

The RoHS Directive is a European regulation restricting the use of hazardous substances that has been enforced within the European Union since July 2006. It covers electrical and electronic equipment and restricts or bans the use of six substances that are harmful to the global environment or human health: lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE. Products that do not comply with the RoHS Directive cannot be sold in Europe.

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*(Please contact the EIZO subsidiary or distributor in your country for the latest information.)*