What is Paper Mode?

Simply put, it is a mode which adjusts the brightness, contrast ratio, and color temperature of a monitor to simulate those of printed paper.

Effect of Lowering Brightness and Color Temperature

In the visible light spectrum, blue light has wavelengths adjacent to ultraviolet light. Compared to the factory setting of 6,500 K of typical LCD monitors, Paper Mode is set to lower color temperature to 5,000 K and brightness. This produces a bluish screen while lowering eye fatigue and stress. Paper Mode was developed to simulate those of printed paper. Over the course of a work year, PC users must constantly adjust to the difference in lighting conditions between their home and work environments.

Compliance with International Labels

Adjust the screen to the most comfortable position with 100 mm height adjustment, 35° tilt, 70° swivel, and 90° rotation for portrait mode. A basic stand that offers 35° of tilt is also available as an option.

Built-In Speakers

0.5-watt speakers are tucked away at the back of the monitor and out of view so you can enjoy sound while bezel size is kept to a minimum. A headphone jack is also built into the monitor.

Sync-On-Green Signal Support

Support for sync-on-green ensures this monitor can be used with legacy graphics boards that output this signal.

LED Backlight

With an energy-saving LED backlight, the FlexScan S1903 uses only 11 watts during typical operation. The LED backlight does not contain any mercury for minimal environmental impact when the monitor is eventually disposed of.

Digital and Analog Inputs

With both DVI-D and D-Sub mini 15-pin inputs, you can use a computer that has either a digital or analog graphics board (or both if connected to two computers), and quickly switch between the inputs via a front panel button.

Built-In Speakers

0.5-watt speakers are tucked away at the back of the monitor and out of view so you can enjoy sound while bezel size is kept to a minimum. A headphone jack is also built into the monitor.
Optimized Brightness with Auto EcoView

The Auto EcoView function is a sensor on the front of the monitor that measures ambient light and optimizes the screen’s brightness to a level akin to viewing a sheet of paper under typical office lighting conditions. Since the screen is never too bright, eye strain is reduced while power consumption is cut by up to 50% compared to operating the monitor under typical office lighting conditions. Since the screen’s brightness is cut to a level akin to viewing a sheet of paper, the eye is not subjected to any sudden brightness change. This helps prevent eye fatigue and increase work efficiency.

Anti-Glare Treatment

A non-glare screen reduces eye fatigue by dissipating reflective light that otherwise makes the screen difficult to view. Furthermore, the surface of the bezels is treated to prevent light reflection.

10-Bit Gamma Correction

This technology helps achieve accurate color by converting the 8-bit PC data to 10-bit, and assigning the ideal gamma values with a 10-bit look-up table (LUT) then returning the data to 8-bit format for display.

Preset Modes for Optimum Viewing

With EIZO’s Fine Contrast function you can choose from several preset modes for the various applications you work with. Toggling between modes can be done manually in the OSD menu or automatically by assigning a mode to a particular application with the bundled ScreenManager Pro for LCD software.

Closely Simulates Documents and Books

Paper mode simulates the look of printed paper by raising the black level and lowering the contrast ratio. Together with the Auto EcoView ambient brightness sensor, Paper mode reduces the amount of blue light emanating from the monitor for less eyestrain. (See page 4 for more information about Paper mode.)

Eye Care Utility

The EyeCare utility is EIZO-developed software that helps promote better work habits. It consists of a function called “EyeCare Reminder” that reminds you to take scheduled breaks.

Energy Savings across the Network

EIZO’s EcoView NET power management software provides centralized control over the power settings of monitors on a network. With EcoView NET, a systems administrator can confirm the settings for each monitor on the network, turn the power on or off, and if necessary, take measures to combat eye fatigue such as adjust the brightness or activate Auto EcoView. EcoView NET is available from EIZO distributors.

Improved Work Efficiency, Reduced Visual Fatigue

EIZO conducted a survey to establish the relationship between eye fatigue and monitor use. The survey found that when you properly adjust your monitor’s brightness, the reduction in your ability to focus drops by half (Graph 1). In addition, maintaining correct working posture and taking regular breaks further reduced fatigue levels and increased work efficiency by 12.5% (Graph 2).

Comparison between fatigue levels after monitor use

<table>
<thead>
<tr>
<th>Measurement condition</th>
<th>1.Standard</th>
<th>2.Ideal brightness, corrected colors, regular breaks</th>
<th>3.Ideal brightness, corrected colors, required breaks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity of VDT work per unit of time (%)</td>
<td>14.81 increase</td>
<td>6.65 decrease</td>
<td>6.23 decrease</td>
</tr>
<tr>
<td>Averaging number in near-point distance (%)</td>
<td>9.96 decrease</td>
<td>7.91 increase</td>
<td>112.5% increase</td>
</tr>
</tbody>
</table>

EIZO monitor features like Auto EcoView, ergonomic stands, and the EyeCare utility help reduce eye fatigue and increase work efficiency.

Prevent Eye Fatigue in Dimly-Lit Offices

Fine Contrast includes an EyeCare mode that reduces the screen’s brightness to just 3 cd/m². This ultra-low brightness helps prevent eye fatigue and increase productivity when working in an environment with very dim ambient lighting such as a CAD studio.

Built to Last Five Years

EIZO’s five-year warranty is two years or 67% longer than the standard three-year warranty of most brands. Even if the initial purchase price of the FlexScan S1903 is higher than another 19-inch monitor, the TCO (total cost of ownership) will likely be lower due to the significantly longer buying cycle and less need for repair.

EcoView NET

EcoView NET is available from EIZO distributors. EcoView NET manages the power settings of monitors on a network. With EcoView NET, an administrator can confirm the settings for each monitor on the network, turn the power on or off, and if necessary, take measures to combat eye fatigue such as adjust the brightness or activate Auto EcoView. EcoView NET is available from EIZO distributors.

Other Brands

3-year Warranty

While outsourcing production is now common practice in the monitor industry, EIZO continues to manufacture its products the same way it has throughout its 40-year history— with its own staff at its own factories. This allows EIZO to maintain close control over production quality and offer the industry’s only 5-year manufacturer’s limited warranty.

- Made by EIZO

Long buying cycle Low TCO

67% longer

Short buying cycle High reliability

High TCO

Energy Savings across the Network

EIZO’s EcoView NET power management software provides centralized control over the power settings of monitors on a network. With EcoView NET, a systems administrator can confirm the settings for each monitor on the network, turn the power on or off, and if necessary, take measures to combat eye fatigue such as adjust the brightness or activate Auto EcoView. EcoView NET is available from EIZO distributors.

- Energy Savings across the Network

- Made by EIZO

Long buying cycle

Low TCO 67% longer

Short buying cycle

High reliability

High TCO

- Eye Care Utility

- Built to Last Five Years

- Improved Work Efficiency, Reduced Visual Fatigue

- Anti-Glare Treatment

- 10-Bit Gamma Correction

- Preset Modes for Optimum Viewing

- Closely Simulates Documents and Books

- Prevents Eye Fatigue in Dimly-Lit Offices

- EIZO monitor features like Auto EcoView, ergonomic stands, and the EyeCare utility help reduce eye fatigue and increase work efficiency.
Optimized Brightness with Auto EcoView
The Auto EcoView function is a sensor on the front of the monitor that measures ambient light and optimizes the screen’s brightness to a level akin to viewing a sheet of paper under typical office lighting conditions. Since the screen is never too bright, eye strain is reduced while power consumption is cut by up to 50% compared to operating the monitor with Auto EcoView turned off and set to the default factory brightness of 100%.

Anti-Glare Treatment
A non-glare screen reduces eye fatigue by dissipating reflective light that otherwise makes the screen difficult to view. Furthermore, the surface of the bezels is treated to prevent light reflection.

10-Bit Gamma Correction
This technology helps achieve accurate color by converting the 8-bit PC data to 10-bit, and assigning the ideal gamma values with a 10-bit look-up table (LUT) then returning the data to 8-bit format for display.

Preset Modes for Optimum Viewing
With EIZO’s Fine Contrast function you can choose from several preset modes for the various applications you work with. Toggling between modes can be done manually in the OSD menu or automatically by assigning a mode to a particular application with the bundled ScreenManager Pro for LCD software.

Closely Simulates Documents and Books
Paper mode simulates the look of printed paper by raising the black level and lowering the contrast ratio. Together with the Auto EcoView ambient brightness sensor, Paper mode reduces the amount of blue light emanating from the monitor for less eye strain. (See page 4 for more information about Paper mode.)

Improved Work Efficiency, Reduced Visual Fatigue
EIZO conducted a survey to establish the relationship between eye fatigue and monitor use. The survey found that when you properly adjust your monitor’s brightness, the reduction in your ability to focus drops by half. In addition, maintaining correct working posture and taking regular breaks further reduced fatigue (Graph 1). In addition, EIZO’s Fine Contrast function can be activated, saving much energy and increasing work efficiency.

Eye Care Utility
The EyeCare utility is EIZO-developed software that helps promote better work habits. It consists of a function called “EyeCare Reminder” that reminds you to take scheduled breaks.

Energy Savings across the Network
EIZO’s EcoView NET power management software provides centralized control over the power settings of monitors on a network. With EcoView NET, a systems administrator can confirm the settings for each monitor on the network, turn the power on or off, and, if necessary, take measures to combat eye fatigue such as adjust the brightness or activate Auto EcoView. EcoView NET is available from EIZO distributors.

Made by EIZO
While outsourcing production is now common practice in the monitor industry, EIZO continues to manufacture its products the same way it has throughout its 40-year history – with its own staff at its own factories. This allows EIZO to maintain close control over production quality and offer the industry’s only 5-year manufacturer’s limited warranty.

5-Year vs. 3-Year Warranty
Built to Last Five Years
EIZO’S five-year warranty is two years or 67% longer than the standard three-year warranty of most brands. Even if the initial purchase price of the FlexScan S1903 is higher than another 19-inch monitor, the TCO (total cost of ownership) will likely be lower due to the significantly longer buying cycle and less need for repair.

EIZO monitor features like Auto EcoView, ergonomic stands, and the EyeCare utility help reduce eye fatigue and increase work efficiency.

EIZO conducted a survey to establish the relationship between eye fatigue and monitor use. The survey found that when you properly adjust your monitor’s brightness, the reduction in your ability to focus drops by half. In addition, maintaining correct working posture and taking regular breaks further reduced fatigue (Graph 1). In addition, EIZO’s Fine Contrast function can be activated, saving much energy and increasing work efficiency.

Quantity of VDT work per unit of time
Average increase in near-point distance:

<table>
<thead>
<tr>
<th>Measurement condition</th>
<th>Posture</th>
<th>Regular breaks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Standard</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>2. Ideal brightness, corrected posture, regular breaks</td>
<td>4.6%</td>
<td>14.6%</td>
</tr>
<tr>
<td>3. Ideal brightness, corrected posture</td>
<td>7.9%</td>
<td>14.61%</td>
</tr>
<tr>
<td>4. Correct posture, regular breaks</td>
<td>112.5%</td>
<td>6.65%</td>
</tr>
</tbody>
</table>

Prevents Eye Fatigue in Dimly-Lit Offices
EIZO’s anti-glare panel prevents eye fatigue that otherwise makes the screen difficult to view. Furthermore, the surface of the bezels is treated to prevent light reflection.
**What is Paper Mode?**

Simply put, it is a mode which adjusts the brightness, contrast ratio, and color temperature of a monitor to simulate those of printed paper. Once the correct setting for a particular paper is determined, the user can simply select Paper Mode and the monitor will automatically adjust to the correct setting. For example, this is very useful in day-to-day PC work. The work environment for reading a paper document is quite different from that of on-screen reading. This overworks the muscles of the eyes and is thought to be a source of eye fatigue and stress. Paper Mode was developed to alleviate the eye fatigue and stress that PC users feel.

**Paper Mode vs. Other Modes**

When using Auto EcoView and Paper Mode: 120 cd/m², 5,000 K

Initial measurement of sample unit: 350 cd/m², 6,500 - 7,000 K

*Measured at an ambient brightness of 500 lx. Average maximum brightness of FlexScan square monitors.

**Color Temperature, Brightness and the Effect on Blue Light**

In the visible light spectrum, blue light has wavelengths adjacent to ultraviolet light. Compared to the factory preset setting of 6,500 K of typical LCD monitors, Paper Mode is closer to the spectral distribution with long reddish 400 - 500 nm. Compared to the factory preset setting of 6,500 K of typical LCD monitors, Paper Mode is closer to the spectral distribution with long reddish 400 - 500 nm. Compared to the factory preset setting of 6,500 K of typical LCD monitors, Paper Mode is closer to the spectral distribution with long reddish 400 - 500 nm. Compared to the factory preset setting of 6,500 K of typical LCD monitors, Paper Mode is closer to the spectral distribution with long reddish 400 - 500 nm.

The combination of Paper Mode and the Auto EcoView brightness adjustment function reduces blue light even more. In a monitor with an LED backlight where Paper brightness adjustment function reduces blue light even more. In a monitor with an LED backlight where Paper brightness adjustment function reduces blue light even more. In a monitor with an LED backlight where Paper brightness adjustment function reduces blue light even more. In a monitor with an LED backlight where Paper brightness adjustment function reduces blue light even more.

**LED Backlight**

The LED backlight is an energy-saving light source that uses only 11 watts during typical operation. The LED backlight does not contain any mercury for minimal environmental impact when the monitor is eventually disposed of.

**Digital and Analog Inputs**

With both DVI-D and D-Sub mini 15-pin inputs, you can use a computer that has either a digital or an analog graphics board (or both if connected to two computers), and quickly switch between the inputs via a front panel button.

**Built-In Speakers**

0.5-watt speakers are tucked away at the back of the monitor and out of view so you can enjoy sound while bezel size is kept to a minimum. A headphone jack is also built into the back of the monitor.

**Sync-on-Green Signal Support**

The monitor discerns the input signal from the PC and automatically adjusts the clock, phase, image location, size, etc. In addition, the signal cables that are bundled were developed by EIZO to reduce noise.

**Ergonomic Stand**

Adjust the screen to the most comfortable position with 100 mm height adjustment, 30° tilt, 70° swivel, and 90° rotation for portrait mode. A basic stand that offers 35° tilt of tilting is also available.

**Sync-on-Green Signal Support**

Support for sync-on-green ensures this monitor can be used with legacy graphics boards that output this signal.