EIZO ®

FlexScan ®
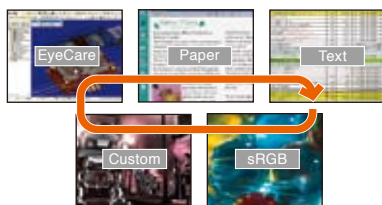
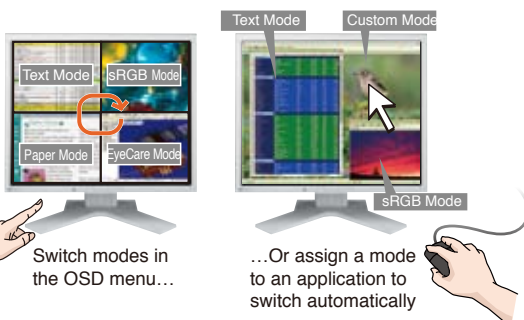# "Extended" Series for Ergonomics and the Environment

Ideal for corporate and small offices, these square monitors are upgrades to current models in EIZO's Flex-Scan lineup with the same names except that "-X" has been added to indicate they have "extended" features for improved visual ergonomics and environmental consciousness.

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.

EyeCare Paper Text
Custom sRGB

Select the best mode depending on content

Text Mode sRGB Mode
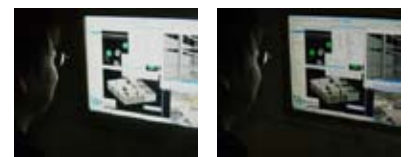Paper Mode EyeCare Mode

Text Mode Custom Mode
sRGB Mode

Switch modes in the OSD menu…

…Or assign a mode to an application to switch automatically

Prevents Eye Fatigue in Dimly-Lit Offices

Fine Contrast includes an EyeCare mode that reduces the screen's brightness to just 3 cd/m^2. 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.

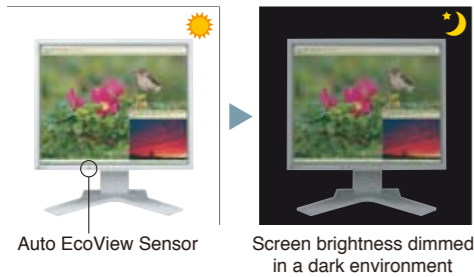Standard Mode   EyeCare Mode

Closely Simulates Documents and Books

With office and home spending increasing amounts of time viewing documents and books on their monitors rather than in printed form, EIZO is introducing a Paper mode for the first time which simulates the look of paper. Paper mode makes reading documents and ebooks more comfortable and thereby reduces eyestrain. (See page 3 for more information about Paper mode.)

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%.

Auto EcoView Sensor

Screen brightness dimmed in a dark environment

Improved Work Efficiency, Reduced Visual Fatigue

EIZO conducted a survey in 2008 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

[%] Average increase in near-point distance

- 14.61 %
- 7.96 % decrease
- 6.65 %
- 6.25 % decrease
- 0.4 %

1. Standard
2. Ideal brightness
3. Ideal brightness, correct posture, regular breaks

Quantity of VDT work per unit of time

[%] Measurement condition

- 100 %
- 4.6 % increase
- 104.6 %
- 7.9 % increase
- 112.5 %

1. Standard
2. Ideal brightness
3. Ideal brightness, correct posture, regular breaks

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

Energy Efficiency Gauge

To encourage environmental consciousness while working, a user-activated gauge called EcoView Index displays the level of power savings and equivalent amount of CO$_2$ reduction compared to using the monitor without Auto EcoView activated and with the screen set at a brightness of 100%.

EcoView Index
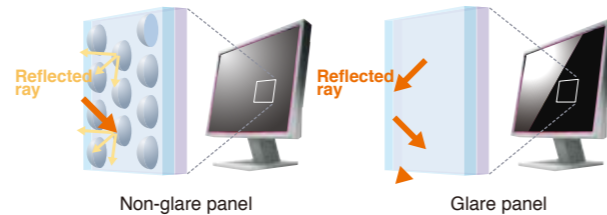Power Reduction
10 W
CO2 Reduction
5.5 g

Auto Image Adjustment

The monitors discern the input signal from the PC and automatically adjust the clock, phase, image location, size, etc. In addition, the signal cables that are bundled with these monitors were developed by EIZO to reduce noise.
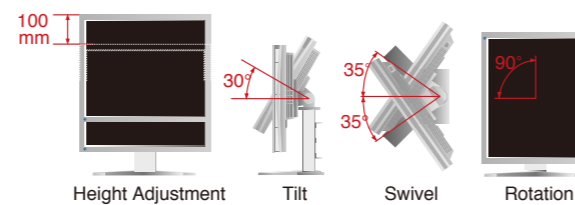
Anti-Glare Treatment

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

Reflected ray
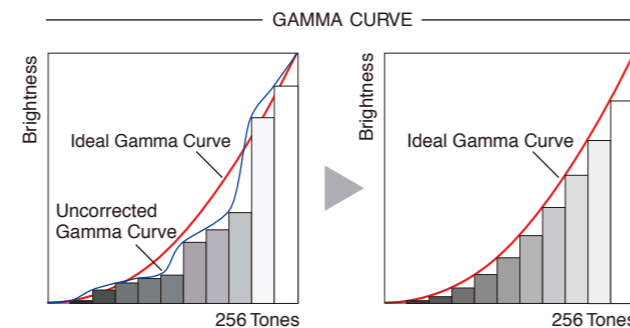
Reflected ray

Non-glare panel

Glare panel

Viewing Comfort with an 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. The FlexScan S1701-X is also available with a basic stand that offers 35° of tilt.

100 mm   30°   35° 35°   90°

Height Adjustment   Tilt   Swivel   Rotation

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.

GAMMA CURVE

Brightness — Ideal Gamma Curve — Uncorrected Gamma Curve — 256 Tones
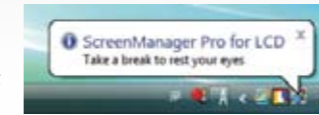
Brightness — Ideal Gamma Curve — 256 Tones

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 int the monitor.
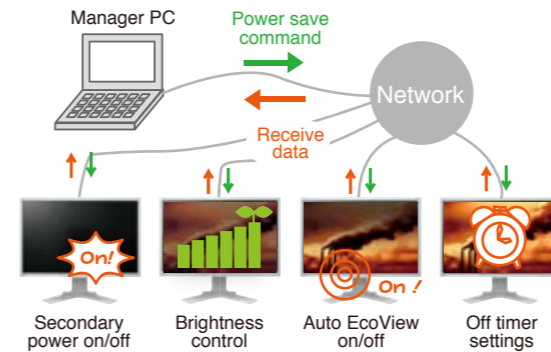
Eye Care Utility

The EyeCare utility is EIZO-developed software that helps promote better work habits. It consists of an "EyeCare Reminder" function that reminds you to take scheduled breaks, and for your reference, an "EyeCare Recorder" function that records the number of hours you use your monitors.

ScreenManager Pro for LCD
Take a break to rest your eyes

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.

Manager PC   Power save command   Network   Receive data

On!   On !

Secondary power on/off   Brightness control   Auto EcoView on/off   Off timer settings

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.

DVI-D   D-Sub

Sync-On-Green Signal Support

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

Customer Assurance

These monitors are backed by an industry-leading five-year manufacturer's warranty. In addition, they meet the requirements of the world's leading ergonomic and environmental standards.

5 Year Warranty   TÜV   ERGONOMICS APPROVED   GPEAT GOLD   TCO certified   ENERGY STAR   Compatible with Windows 7

Made by EIZO, Made in Japan

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 in Japan. This allows EIZO to maintain close control over production quality and offer the industry's only 5-year manufacturer's limited warranty.

Optional LCD Panel Protectors

These protectors fit easily between the LCD screen and bezel, have a light transmission rate of more than 90%, and include both an anti-glare coating side to reduce light reflection and a glossy side for crisper, more vibrant images.

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. Over the course of a work day PC users must constantly adjust to the difference between how monitors and paper appear. 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.

Comparison between paper, EIZO square monitors, and Paper Mode

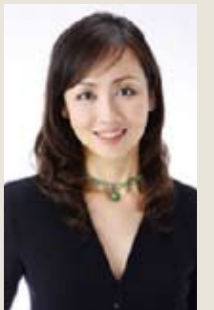|	Newspaper	Recycled Copy Paper	EIZO Square Monitors	Paper Mode
Brightness	55 % reflection rate, 88 cd/m²*	70 % reflection rate, 112cd/m²*	267 cd/m²[‡]	50 – 70 % reflection rate
Contrast Ratio	6.2:1	10.7:1	1167:1[†]	About 30:1
Color Temperature	3477 K	3828 K	6500 K (when shipped)	4000 – 5000 K

*Measured at an ambient brightness of 500 lx. [‡]Average maximum brightness of FlexScan S1921-X, S1721-X, and S1701-X.

EIZO was among the first manufacturers to offer LCD monitors for graphics markets like printing, publishing, advertising, and photography and continues to offer products for these markets. Paper mode is a combination of the knowledge gleaned from developing monitors that very closely reproduce printed color as well as a design philosophy that emphasizes ergonomics.

Eye Fatigue and Operational Efficiency (Paper Mode for Business People)

For the contemporary worker who requires a PC, preventing eye fatigue is directly related to raising work efficiency. In particular, people who read a lot of textual information will find a monitor screen that is gentle on the eyes to be a powerful ally. So, in a viewing environment where one reads documents and newspapers, Paper Mode could be widely used and appreciated by business people.
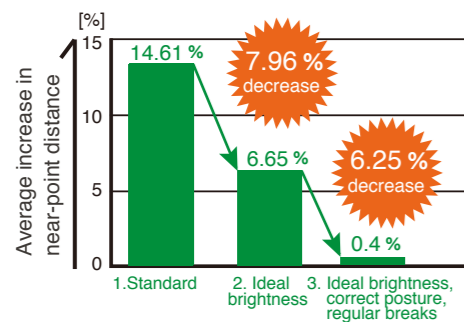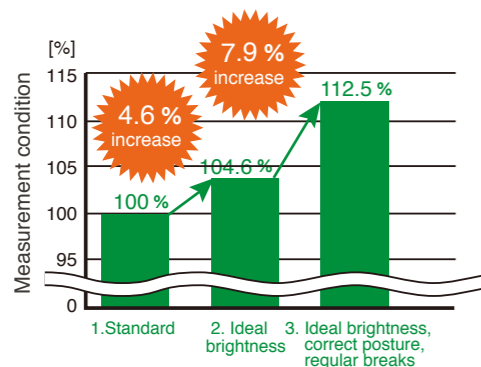
Katsue Takabayashi
VDT Occupational Safe & Health Education Instructor
President of Digital Health Center Corporation

	FlexScan® S1921-X	FlexScan® S1721-X	FlexScan® S1701-X
Model Variations[1]	Height Adjustable Stand, Without Stand	Height Adjustable Stand, Without Stand	Height Adjustable Stand, Tilt Stand, Without Stand
Panel Size	19" / 48 cm (481 mm diagonal)	17 / 43 cm (432 mm diagonal)	17 / 43 cm (432 mm diagonal)
Active Display Size (H × V)	376 × 301 mm	338 × 270 mm	338 × 270 mm
Panel Type	VA	VA	TN
Viewing Angles (H, V)	178°, 178° (at contrast ratio of 10:1)	178°, 178° (at contrast ratio of 10:1)	160°, 160° (at contrast ratio of 10:1)
Brightness	250 cd/m²	250 cd/m²	300 cd/m²
Contrast	1000:1	1500:1	1000:1
Response Time	Black-white-black: 20 ms	Black-white-black: 25 ms	Black-white-black: 5 ms
Native Resolution	1280 × 1024 (5:4 aspect ratio)	1280 × 1024 (5:4 aspect ratio)	1280 × 1024 (5:4 aspect ratio)
Pixel Pitch	0.294 × 0.294 mm	0.264 × 0.264 mm	0.264 × 0.264 mm
Display Colors	16.77 million from a palette of 1.06 billion	16.77 million from a palette of 1.06 billion	16.77 million from a palette of 1.06 billion
Look-Up Table	10 bits per color	10 bits per color	10 bits per color
Cabinet Colors	Gray, Black	Gray, Black	Gray, Black
Dot Clock	Analog: 135 MHz, Digital: 108 MHz	Analog: 135 MHz, Digital: 108 MHz	Analog: 135 MHz, Digital: 108 MHz
Analog Scanning Frequency (H, V)	31 – 80 kHz, 50 – 75 Hz	31 – 80 kHz, 50 – 75 Hz	31 – 80 kHz, 50 – 75 Hz
Digital Scanning Frequency (H, V)	31 – 64 kHz, 59 – 61 Hz (VGA Text: 69 – 71 Hz)	31 – 64 kHz, 59 – 61 Hz (VGA Text: 69 – 71 Hz)	31 – 64 kHz, 59 – 61 Hz (VGA Text: 69 – 71 Hz)
Video Input Terminals	D-Sub mini 15 pin, DVI-D 24 pin	D-Sub mini 15 pin, DVI-D 24 pin	D-Sub mini 15 pin, DVI-D 24 pin
Audio Input / Output Terminals	3.5 mm stereo jack / 3.5 mm headphone jack	3.5 mm stereo jack / 3.5 mm headphone jack	3.5 mm stereo jack / 3.5 mm headphone jack
Speakers	0.5 W + 0.5 W speakers	0.5 W + 0.5 W speakers	0.5 W + 0.5 W speakers
Plug & Play	VESA DDC 2B	VESA DDC 2B	VESA DDC 2B
Power Requirements	AC 100 – 120 V / 200 – 240 V, 50 / 60 Hz	AC 100 – 120 V / 200 – 240 V, 50 / 60 Hz	AC 100 – 120 V / 200 – 240 V, 50 / 60 Hz
Power Consumption	22 W (typical), 40 W (maximum)	19 W (typical), 38 W (maximum)	19 W (typical), 38 W (maximum)
Power Save Mode	Less than 0.6 W	Less than 0.6 W	Less than 0.6 W
Height Adjustment Range	With Height Adjustable Stand: 100 mm	With Height Adjustable Stand: 100 mm	With Height Adjustable Stand: 100 mm
Tilt / Swivel / Pivot	With Height Adjustable Stand: 30° Up, 0° Down / 35° Right , 35° Left / 90°	With Height Adjustable Stand: 30° Up, 0° Down / 35° Right , 35° Left / 90°	With Height Adjustable Stand: 30° Up, 0° Down / 35° Right , 35° Left / 90° With Tilt Stand: 30° Up, 5° Down / – / –
Dimensions (W × H × D)	With Height Adjustable Stand: 405 × 406.5 – 506.5 × 205 mm Without Stand: 405 × 334 × 61.5 mm	With Height Adjustable Stand: 363 × 389.5 – 489.5 × 205 mm Without Stand: 363 × 300 × 59 mm	With Height Adjustable Stand: 363 × 389.5 – 489.5 × 205 mm With Tilt Stand: 363 × 382 × 188 mm Without Stand: 363 × 300 × 59 mm
Net Weight	With Height Adjustable Stand: 7.2 kg Without Stand: 5.2 kg	With Height Adjustable Stand: 5.9 kg Without Stand: 3.9 kg	With Height Adjustable Stand: 5.9 kg With Tilt Stand: 4.7 kg Without Stand: 3.9 kg
Preset Modes	Fine Contrast (Text, sRGB, EyeCare, Paper, Custom), Auto Fine Contrast[2]	Fine Contrast (Text, sRGB, EyeCare, Paper, Custom), Auto Fine Contrast[2]	Fine Contrast (Text, sRGB, EyeCare, Paper, Custom), Auto Fine Contrast[2]
EcoView Settings	Auto EcoView, EcoView Index	Auto EcoView, EcoView Index	Auto EcoView, EcoView Index
Screen Adjustment	Clock, Phase, Position, Range (Auto), Smoothing (5 stages)	Clock, Phase, Position, Range (Auto), Smoothing (5 stages)	Clock, Phase, Position, Range (Auto), Smoothing (5 stages)
Color Adjustment	Brightness, Contrast, Temperature, Gain, Reset	Brightness, Contrast, Temperature, Gain, Reset	Brightness, Contrast, Temperature, Gain, Reset
Power Management	Power Save (VESA DPMS and DVI DMPM), Off Timer	Power Save (VESA DPMS and DVI DMPM), Off Timer	Power Save (VESA DPMS and DVI DMPM), Off Timer
Sound	Volume	Volume	Volume
Other Settings	Signal Switching, Power Indicator, Product Information (name, serial number, resolution, operating time, etc.), OSD Menu Position, Adjustment Lock, DDC/CI Lock, Sync on Green, Languages (English, French, German, Italian, Japanese, Simplified and Traditional Chinese, Spanish, Swedish), Reset	Signal Switching, Power Indicator, Product Information (name, serial number, resolution, operating time, etc.), OSD Menu Position, Adjustment Lock, DDC/CI Lock, Sync on Green, Languages (English, French, German, Italian, Japanese, Simplified and Traditional Chinese, Spanish, Swedish), Reset	Signal Switching, Power Indicator, Product Information (name, serial number, resolution, operating time, etc.), OSD Menu Position, Adjustment Lock, DDC/CI Lock, Sync on Green, Languages (English, French, German, Italian, Japanese, Simplified and Traditional Chinese, Spanish, Swedish), Reset
Certifications and Standards	TCO Displays 5.1, EPEAT Gold (US), TÜV/Ergonomics (including ISO 13406-2), TÜV/GS, C-Tick, CE, CB, cTÜVus, FCC-B, Canadian ICES-003-B, TÜV/S, VCCI-B, EPA Energy Star, RoHS, WEEE, CCC	TCO Displays 5.1, EPEAT Gold (US), TÜV/Ergonomics (including ISO 13406-2), TÜV/GS, C-Tick, CE, CB, cTÜVus, FCC-B, Canadian ICES-003-B, TÜV/S, VCCI-B, EPA Energy Star, RoHS, WEEE, CCC	TCO Displays 5.1, EPEAT Gold (US), TÜV/Ergonomics (including ISO 13406-2), TÜV/GS, C-Tick, CE, CB, cTÜVus, FCC-B, Canadian ICES-003-B, TÜV/S, VCCI-B, EPA Energy Star, RoHS, WEEE, CCC
Supplied Accessories	AC power cord, signal cables (D-Sub – D-Sub, DVI-D – DVI-D), audio cable, setup guide, CD-ROM (PDF user's manual, ScreenManager Pro for LCD [DDC/CI], ScreenSlicer software), 4 screws for mount option, warranty card	AC power cord, signal cables (D-Sub – D-Sub, DVI-D – DVI-D), audio cable, setup guide, CD-ROM (PDF user's manual, ScreenManager Pro for LCD [DDC/CI], ScreenSlicer software), 4 screws for mount option, warranty card	AC power cord, signal cables (D-Sub – D-Sub, DVI-D – DVI-D), audio cable, setup guide, CD-ROM (PDF user's manual, ScreenManager Pro for LCD [DDC/CI], ScreenSlicer software), 4 screws for mount option, warranty card
Warranty	Five Years[3]	Five Years[3]	Five Years[3]

[1] Model variations are subject to local availability. For details, please contact the EIZO subsidiary or distributor in your country. [2] The bundled ScreenManager Pro for LCD is necessary to activate Auto Fine Contrast. [3] The usage time is limited to 30,000 hours or less, and the warranty period of the LCD panel is limited to three years from the date of purchase.