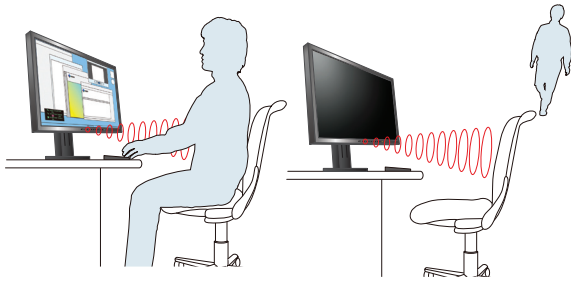# The future of the energy saving office

Motion Sensor for Power Savings

EIZO's new EcoView Sense feature unites convenience with savings by ensuring that these monitors automatically conserve power when they are not in use. EcoView Sense is an integrated motion sensor that prompts the monitor to switch to power save mode when it does not detect the user for 40 seconds, and then resume normal operation when the user returns. To accurately enter and stay in power save mode while the user is away from the monitor, EcoView Sense also differentiates between a still object like an empty chair and the movement caused by general office activity.

EcoView Sense automatically signals the screen to activate and stay on, or switch to power save mode by detecting whether the user is present or not.

Inside EIZO R&D

" Original EIZO-developed (patent pending) algorithms allow EcoView Sense's automatic detection function to differentiate between animate and inanimate objects as well as people just passing by. The sensor's highly accurate position tracking has been achieved by adopting a special lens that suppresses diffused reflections of infrared rays and through factory-performed sensor adjustment on each monitor. "

*Takashi Murata, Group Leader
R&D Visual Products*

Optimized Brightness with Auto EcoView

A built-in Auto EcoView sensor measures ambient light and optimizes the screen's brightness to ideal levels in both brightly and dimly lit rooms. This results in improved visual ergonomics and reduced power consumption by up to 40% compared to when the sensor is turned off.
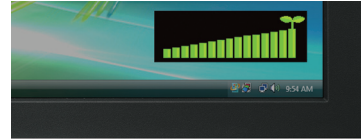
Models	Auto EcoView OFF	Auto EcoView ON	Power Reduction	Reduced Power Consumption in Wh per day
FlexScan EV2023W	35 W	25 W	28%	10
FlexScan EV2303W	30 W	18 W	40%	12

Zero Watts When Turned Off

When the power save mode and off timer are set, these monitors consume less than 0.7 watts. When turned off via the main power switch, they consume no electricity at all.

Confirm Power Savings with EcoView Index

An EcoView Index displays the level of power savings in correlation with the monitor's brightness to encourage environmental consciousness while working.

When EcoView Index is fully illuminated, the monitor is operating at optimum energy efficiency.

EyeCare Manager

EIZO's EyeCare Manager prompts workers to take scheduled breaks to avoid eye fatigue caused by prolonged monitor use. EyeCare also totals and displays on-screen the monitor's usage hours for each day and month to promote worker appreciation of improved work habits.

First TCO Displays 5.0 Certified Monitors

These are among the world's first TCO Displays 5.0 certified monitors. This certification addresses ergonomics, emissions, and ecology with new criteria for product energy efficiency consistent with Energy Star 4.0 requirements, as well as enhanced monitor and packaging recyclability. These monitors also received the Green Electronics Council and US EPA consumer electronics environmental assessment program's highest rating: EPEAT Gold.

Product Life Cycle Ecology

These monitors debut an innovative compact design that reduces the number of internal components, making them thinner and lighter than previous FlexScan 20" and 24" widescreen models. This allows the monitors to be shipped in smaller containers which use between 80% to 100% recycled material. These considerations made during product development, in tandem with the monitors' EcoView

Compared to a previous FlexScan 24" widescreen monitor, the FlexScan EV2303W's slimmed-down cabinet design cuts the use and weight of sheet metal components, shown here, by up to 90%.

32% thinner
39% lighter

Previous 20" monitor → EV2023W

48% thinner
41% lighter

Previous 24" monitor → EV2303W

These monitor's new compact cabinet design is thinner and lighter than that of previous FlexScan widescreen models.

features, reduce environmental burden at each stage of the products' life cycle.

Improved Efficiency, Reduced Visual Fatigue

EIZO conducted a survey in 2008 to establish the relationship between eye fatigue and monitor use. Results showed that features like Auto EcoView, ergonomic stands, and the EyeCare Manager helped reduce eye fatigue and improved work efficiency by 12.5%.

For a white paper regarding this study please visit www.eizo.com/support/wp/pdf/wp_08-001.pdf

16:9 Aspect Ratio

These are the first FlexScan models to feature 16:9 aspect ratios. The 16:9 wide format is the same aspect ratio used by HDTV and it lets you enjoy multimedia content without horizontal letterboxing.

Fine Contrast for Optimum Viewing

EIZO's Fine Contrast function has five modes: Text mode for office applications, Movie mode for video, Picture mode for graphics, sRGB mode for web browsing, and Custom mode for user-defined settings.
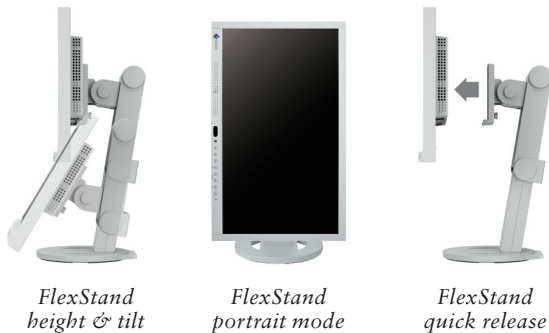
Individual Adjustment of Gamma

Factory-performed gamma adjustment minimizes discrepancies among monitor gamma characteristics for better image consistency in multi-monitor setups.

Placement Flexibility

EIZO introduces two new ergonomic stands: the highly-versatile FlexStand and the space-saving TriStand. Both stands offer tilt, swivel and height adjustment. The FlexStand also offers portrait rotation, laptop-like screen placement, and at 225 mm, the industry's greatest range of height adjustment.* The FlexStand features an innovative, bearingless design that reduces mechanical wear and the amount of torque required to adjust height. A quick release feature on the FlexStand allows for easy monitor reconfiguration.

Statement reflects EIZO's internal findings as of April 2009.

FlexStand height & tilt   *FlexStand portrait mode*   *FlexStand quick release*

Accessories

Available accessories include mounting arms and panel protectors.

For compatibility information please visit www.eizo.com/products/accessories/

Eco Savings with FlexScan EV2303W

73.9% Reduction in Power Consumption

With an installation of 100 FlexScan EV2303W monitors used for 8 hours a day, 250 days a year for five years (the warranty period), you can expect to save[1]:

Power Reductions:

51,000 kWh

CO_2 Emissions Reductions:

28,305 kg[2]

Trees Needed to Consume This CO_2:

2022 trees[3]

Cost Savings:

1,343,850 JPY[4,5]

(=10,250 EUR or 13,606 USD)
(1 EUR = 131 JPY; 1 USD = 98 JPY)[6]

[1] Based on expected savings compared to using the FlexScan S2401W at a brightness of 100% in typical office lighting conditions. [2] Calculated from figures obtained from the Japanese Ministry of Economy, Trade and Industry, Agency for Natural Resources and Energy, and Ministry of Environment where one kWh of electricity produces 0.555 kg of CO_2. [3] Calculated from figures obtained from the Japanese Ministry of Agriculture, Forestry and Fisheries where one tree (Japanese cedar) absorbs approximately 14 kg of CO_2 per year. [4] Calculated at a cost of 4 JPY/kg of CO_2 for per cap and trade emission credit. [5] Calculated at a cost of 24.13 JPY/kWh based on figures published by Tokyo Electric Power Company effective April 2009. This is approximately 0.18 EUR/kWh or 0.24 USD/kWh as of April 2, 2009. [6] Based on exchange rates as of April 2, 2009. This usage example is provided for estimating purposes only. Actual energy savings may vary based on use and other factors.

Reduced Network Power Consumption

For businesses using multiple monitors, EIZO's EcoView NET power management software gives administrators centralized control over the power settings of networked monitors to help reduce electricity consumption and provide long-term energy savings and a smaller carbon footprint.

For detailed information please see www.eizo.com/products/accessories/lcd/ecoview_net/

Customer Assurance

A five-year manufacture's warranty offers a long service life, and compliance with leading environmental and industry standards such as TCO Displays 5.0, EPEAT Gold, and TÜV Ergonomics ensures a better work environment. The EIZO Eco Products 2009 label indicates this product meets strict internal requirements for design, manufacturing, packaging, usage and power consumption.

FlexScan® EV2303W

FlexScan® EV2023W

	FlexScan EV2303W	**FlexScan EV2023W**
Model Variations	FlexStand, TriStand, Without Stand	FlexStand, TriStand, Without Stand
Panel Size	23" / 58 cm (584 mm diagonal)	20" / 51 cm (508 mm diagonal)
Active Display Size (H × V)	509.8 × 286.7 mm	442.8 × 249.1 mm
Panel Type	TN	VA
Viewing Angles (H, V)	160°, 160° (at contrast ratio of 10:1)	178°, 178° (at contrast ratio of 10:1)
Brightness	250 cd/m²	250 cd/m²
Contrast	1000:1	3000:1
Response Time (Typical)	Black-white-black: 5 ms	Black-white-black: 25 ms
Native Resolution	1920 × 1080 (16:9 aspect ratio)	1600 × 900 (16:9 aspect ratio)
Pixel Pitch	0.2655 × 0.2655 mm	0.2768 × 0.2768 mm
Display Colors	16.77 million from a palette of 1.06 billion	16.77 million from a palette of 1.06 billion
Cabinet Colors	Gray, Black	Gray, Black
Dot Clock	Analog: 148.5 MHz, Digital: 148.5 MHz	Analog: 108 MHz, Digital: 108 MHz
Scanning Frequency (H, V) — Analog	31 – 81 kHz, 55 – 76 Hz	31 – 68 kHz, 55 – 76 Hz
Scanning Frequency (H, V) — Digital	31 – 68 kHz, 59 – 61 Hz (VGA Text: 69 – 71 Hz)	31 – 60 kHz, 59 – 61 Hz (VGA Text: 69 – 71 Hz)
Input Signals	Analog: RGB Analog, Digital: DVI Standard 1.0	Analog: RGB Analog, Digital: DVI Standard 1.0
Input Terminals	D-Sub mini 15 pin, DVI-D 24 pin (switchable)	D-Sub mini 15 pin, DVI-D 24 pin (switchable)
HDCP Support	DVI-D[1]	DVI-D[1]
Plug & Play	VESA DDC 2B	VESA DDC 2B
Power Requirements	100 – 120 V / 200 – 240 V, 50 / 60 Hz	100 – 120 V / 200 - 240 V, 50 / 60 Hz
Power Consumption	33 W (maximum) 18 W (typical)	40 W (maximum) 25 W (typical)
Power Save Mode	Less than 0.7 W	Less than 0.7 W
Height Adjustment Range	With FlexStand: 225 mm (171.3 mm at 0° tilt) With TriStand: 60 mm	With FlexStand: 225 mm (192.5 mm at 0° tilt) With TriStand: 60 mm
Tilt / Swivel / Pivot	With FlexStand: 30° Up, 0° Down / 172° Right, 172° Left / 90° With TriStand: 25° Up, 0° Down / 172° Right, 172° Left / 90°	With FlexStand: 30° Up, 0° Down / 172° Right, 172° Left / 90° With TriStand: 25° Up, 0° Down / 172° Right, 172° Left / 90°
Dimensions (W × H × D)	With FlexStand: 547 × 346.5 – 517.8 × 221 – 236 mm With TriStand: 547 × 382 – 442 × 200 mm Without Stand: 547 × 332 × 44 mm	With FlexStand: 476 × 315.4 – 498 × 219 – 236 mm With TriStand: 476 × 362 – 442 × 200 mm Without Stand: 476 × 292 × 47 mm
Net Weight	With FlexStand: 6.9 kg With TriStand: 5.3 kg WithoutStand: 4.1 kg	With FlexStand: 6.7 kg With TriStand: 5.1 kg Without Stand: 3.9 kg
Display Mode Options	Fine Contrast (Text, Picture, Movie, sRGB, Custom), Auto Fine Contrast[2]	
Screen Adjustment	Clock, Phase, Position, Range (Auto), Signal Filter, Screen Size (full screen, enlarge, normal), Smoothing (5 stages), Border Intensity	
Color Adjustment	Brightness, Contrast, Gamma, Temperature, Saturation, Hue, Gain, Reset	
Power Management	Power Save (VESA DPMS and DVI DMPM), Off Timer, EcoView Sense	
EcoView Settings	Auto EcoView, EcoView Index, EcoView Sense	
Sound	Volume, Power Save	
Other Settings	Signal Switching, Product Information (name, serial number, usage time, etc.), OSD Menu Settings, Adjustment Lock, DDC/CI Lock, Languages (English, French, German, Italian, Japanese, Simplified and Traditional Chinese, Spanish, Swedish), Power Indicator, Reset	
Audio (speaker option only)	0.45 W built-in speaker, input / headphone jacks	
Certifications and Standards	TCO Displays 5.0, TÜV/Ergonomics (including ISO 13406-2), TÜV/GS, c-Tick, CE, CB, UL (cTÜVus), CSA (cTÜVus), FCC-B, Canadian ICES-003-B, TÜV/S, VCCI-B, EPA Energy Star, RoHS, WEEE, EPEAT Gold, EIZO Eco Products 2009	
Supplied Accessories	AC power cord, signal cables (DVI-D – DVI-D, D-Sub – D-Sub), audio cable, EIZO LCD Utility Disk (PDF user's manual, ScreenManager Pro for LCD [DDC/CI][3], EIZO ScreenSlicer software), setup guide, spec sheet, 4 screws for mount option, warranty card	
Warranty	Five Years[4]	

[1] Display with audio/video devices is not supported. [2] Bundled ScreenManager Pro for LCD (DDC/CI) is necessary to activate Auto Fine Contrast. [3] ScreenManager Pro for LCD (DDC/CI) is compatible with Windows Vista. [4] The usage time is limited to 30,000 hours or less, and the warranty period of the LCD panel and backlight is limited to three years from the date of purchase.
With current LCD technology, a panel may contain a limited number of missing or flickering pixels.

These monitors were developed, manufactured, and quality control tested by EIZO in Japan.

EIZO

www.eizo.com

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