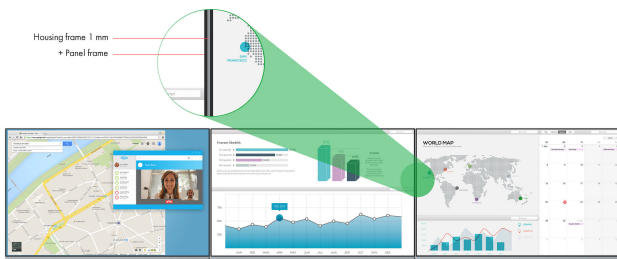# EV2450-BK

Your advantages

5 YEARS WARRANTY

The extremely narrow frame of the FlexScan EV2450 immediately catches your eye. The tidy, compact design makes it perfect for a modern office environment. The 23.8″ monitor with 16:9 aspect ratio features IPS technology and impresses when it comes to image quality and ergonomics. It excels with an anti-glare, clear display thanks to automated brightness and anti-reflection technology. The hybrid brightness control ensures flicker-free images and the stand enables practically unlimited free-dom when determining the position. This helps to prevent problems with posture and any strain to the eyes. EV2450 is virtually frameless and lends itself particularly well to multi-screen use.

- ✓ 23.8" LCD with 16:9 format and IPS technology for exceptional image quality

- ✓ Housing frame just 1 mm thick: extra-compact, ultra-thin design

- ✓ Contrast 1000:1, brightness 250 cd/sq m, 178° viewing angle

- ✓ Flicker-free image rendering thanks to hybrid control of the image brightness

- ✓ Auto-EcoView, EcoView Index, EcoView Sense, and EcoView Optimizer for maximum energy-saving and optimal ergonomics.

- ✓ Built-in speaker and headphone connection

- ✓ USB-Hub Version 3.1 with one upstream and two downstream connections

- ✓ DisplayPort, HDMI, DVI-D, and DSub inputs for digital and analogue connection
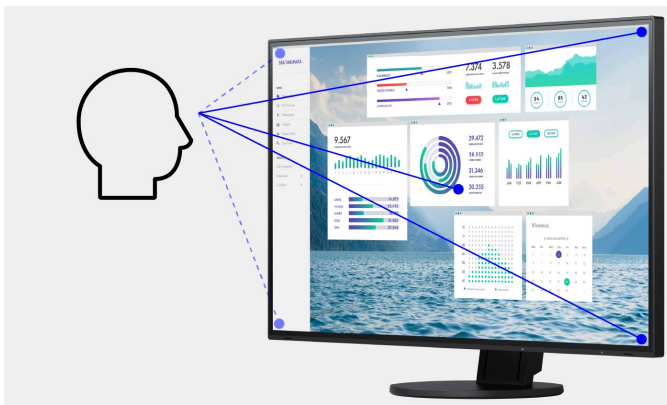
Features

Experience frame-free size

Maximum image with minimalistic design: thanks to the ultra-thin housing frame of just 1 mm and a panel frame that is just 4.3 mm thick, the monitor boasts an almost frameless display, making it optimally suited to multi-screen installations, for example for CAD trading or other professional applications. You get the feeling you are working on a giant monitor. Practical: the power supply unit and signal interfaces are already optimally integrated in the device.

Maximum image quality thanks to the IPS panel

The monitor is capable of all three key elements of excellent image quality: excellent resolution of 1920 x 1080 (Full HD) pixels, maximum contrast of 1000:1, and stable brightness of up to 250 cd/m^2. That means you will experience razor-sharp text contours, brilliant graphics, and clear images. Thanks to the high-quality IPS panels with LED backlight, contrasts and colours remain stable from every viewing angle.
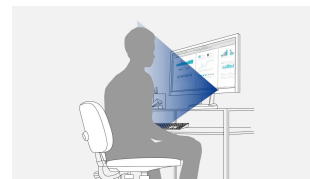

Save electricity and your eyes with Auto EcoView

At day, at night, bright, dark: No matter when and how you work, the Auto EcoView function continuously measures changes of the ambient light and optimises the monitor with ideal brightness values fully automatically by using a sensor. The benefits: Annoying glare is reduced, your eyes will not get tired as quickly.

A special two-point control takes into account the brightest and darkest environment over the course of the day with the respectively desired screen brightness. Another advantage: Thanks to the automatic brightness adjustment, you will save up to 50% of your electricity costs in comparison to a monitor that is permanently operated at maximum brightness.
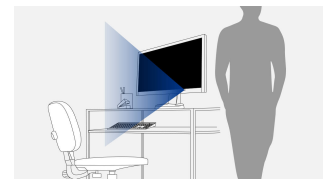
Of course, you can also continue to configure the monitor manually. EcoView Index is used for orientation on how environmentally friendly and economical your settings are.

EcoView Sense: Motion sensor as an electricity-saving function

You can use the motion sensor (EcoView Sense) to save electricity and reduce your energy costs. The principle behind this: When you are sitting in front of the screen, the monitor is being used. When you leave your workstation, it automatically switches to energy-saving mode. As soon as you return, it is reactivated – fully automatically thanks to the motion sensor.

Sensor identifies a person at the workstation

Sensor identifies that the workstation has been vacated

Anti-glare coating: more image, less reflection

The EV2450 offers a surface with optimal anti-glare coating. By minimising glare from the spread of the reflected light, the anti-glare coating effectively protects your eyes from straining. This keeps your eyes from getting as tired and allows you to sit comfortably in front of the screen, without having to sit in a forced position to prevent glare.
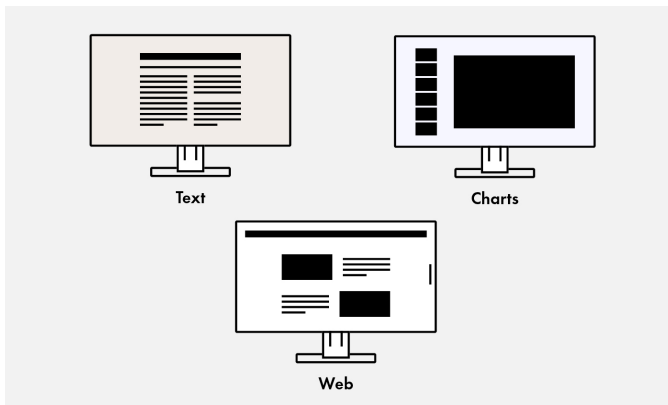
Flicker free: for the sake of the eyes

To help protect your eyes, EIZO has developed a hybrid technology to control the backlight. This combines the benefits of the otherwise standard PWM (pulse width modulation) and DC (direct current) control. The PWM control uses much higher frequencies than standard PWM methods. The result: a flicker-free viewing experience. Flickering is reduced down to absolute freedom from flickering, without impairing image quality or colour stability. In addition, the brightness can be set to less than 1% of the maximum value in darkly lit rooms. The benefit: Your screen remains free from glare even under these conditions.
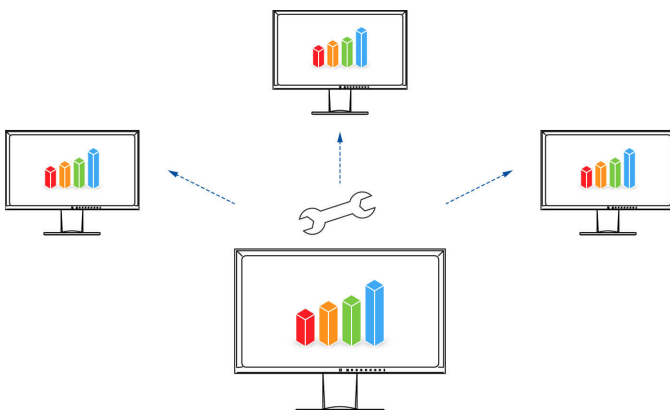
Features

Preset colour modes: Optimised display at the press of a button

Preset colour modes make it easier for you to work and view images, texts and videos. Because when choosing colour settings, it makes a difference whether you are looking at a film, editing an image, surfing the Internet or writing texts. You can configure the respective default settings for brightness, gamma correction and colour temperature at the press of a button. For example, paper mode simulates the pleasant contrast of books by reducing the blue light portion and brightness. This reduces wear on your eyes when reading documents and prevents tiredness. In addition, user-defined settings can also be selected. The Colour Modes include a setting close to the DICOM Part 14 gradation curve. Although the monitor is not intended for diagnostic purposes monochrome medical images can be referred to, displaying them clearer than standard Colour Modes.

Text Charts

Web

Monitor Configurator for cross-network settings

Reduced workload for network administrators: The software allows you to configure multiple monitors uniformly in a single step – via a USB connection. This saves you time and ensures you have the same settings on all screens. The configuration can be saved as an XML file and transferred to clients.

Operation made easy thanks to the Button Guide

The Button Guide provides all functions at a glance. Touching the button is enough and the screen will show all functions and the corresponding control panel.

Overdrive to quickly change images

Fast, faster, overdrive. The overdrive function accelerates switching time so that the grey-grey change takes only 5 ms on average. You can watch films and rapidly changing images without annoying afterglow.

LED backlight: Economical in consumption, free from mercury

The monitors with an LED backlight help save the environment throughout their entire service life – from manufacturing through operation to disposal. For on the one hand they are characterized by particularly low electricity consumption. The typical consumption is just 11 Watt. On the other hand, they are free from mercury – a substance that is harmful to both humans and the environment and is very difficult to dispose of.
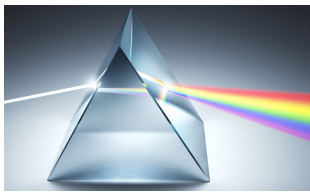
Features

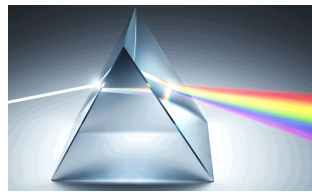### Save up to 30% of energy with the EcoView Optimizer

Save electricity without compromising quality: The EcoView Optimizer reduces the background lighting fully automatically for dark images. This reduces electricity consumption by up to 30%. At the same time, the signal is amplified and the colour tone values adjusted. The result: You will enjoy the image quality you are used to but consume less power.

Precise colour control

An image can only be perfect if the colours are, too. This is why EIZO office monitors have a 10-bit look-up table at a minimum, which allows the colour information to be assigned much more precisely than with conventional 8-bit LUTs. The finest colour gradations ensure that gradients are always perfectly displayed, while also offering customised adjustment options. For example, you can adjust the white balance from 4000 K to 10000 K in 500-K intervals.

Look-Up-Table with 10 and more bit   Look-Up-Table with 8 bit

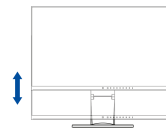### Zero-Watt consumption thanks to the power switch

The monitors have an integrated mechanical power switch, which is extremely practical and energy-saving: If you switch off the monitor using the power switch, the device will stop consuming any power at all. Moreover, it consumes a maximum of 0.3 watt in standby mode.

One monitor, many ports

It doesn't get easier than this: You can connect most of your devices, such as PC, laptop or cameras directly to the monitor because the monitor hasa number of different ports. That makes your daily work easier.
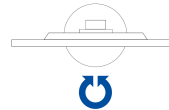
Flexible base

Ergonomic and stable: the adjustable stand focuses on ergonomics. You can rotate, swivel and tilt the monitor stand until you find the most comfortable setting for your back, neck and sitting posture. It features continuous height adjustment and can be lowered almost to the base plate of the stand, enabling you to position the top image line ergonomically right below your eye level.
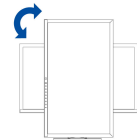
Height
140 mm

Tilt
Tilt down 5°, tilt up 35°

Swivel
344°

Rotation
Rotation 90° (right and left)

Five-year warranty

EIZO grants a five-year warranty. This is possible thanks to the highly developed production process based on a simple principle of success: sophisticated and innovative monitor technology, made from high-end materials.

Specification

General

Item no.	EV2450-BK
Case colors	Black
Areas of application	Office
Product line	FlexScan
EAN	4995047045564
Variants	EV2450-GY (Colour: Light grey)

Display

Screen size [in inches]	23.8
Screen size [in cm]	60.4
Format	16:9
Viewable image size (width x height)	527 x 296
Ideal and recommended resolution	1920 x 1080 (Full HD)
Pixel pitch [mm]	0.2745 x 0.2745
Resolution supported	1920 x 1080 (Full HD), 1680 x 1050, 1280 x 1024, 1024 x 768, 800 x 600, 720 x 400, 640 x 480
Panel technology	IPS
Max. viewing angle horizontal	178 °
Max. viewing angle vertical	178 °
Number of colours or greyscale	16.7 million colours (display port, 8 Bit), 16.7 million colours (HDMI, 8 Bit), 16.7 million colours (DVI, 8 Bit), 16.7 million colours (Dsub, 8 Bit)
Colour palette/look-up table	1.06 billion colour tones / 10 Bit
Max. colour space (typical)	sRGB
Max. brightness (typical) [in cd/m²]	250
Max. dark room contrast (typical)	1000:1
Typical response time [grey/grey alternation]	5 ms
Max. refresh rate [in hertz]	60
Backlight	LED

Features & control

Preset colour/greyscale modes	sRGB, Paper, Movie, DICOM, 2x free modes for user selection
DICOM tone curve	✓
RadiCS application classes	VIII
EcoView Sense	✓
Auto EcoView	✓
EcoView Index	✓
EcoView Optimizer	✓
Overdrive	✓
No flickering thanks to hybrid controls	✓
Signal range amplifier (HDMI)	✓
HDCP Decoder	✓
Input signal identification	✓
Built-in speakers	✓
OSD language	de, en, fr, es, it, se, ja, zh
Adjustment options	Brightness, Contrast, Gamma, All EcoView functions, Colour saturation, Colour temperature, Colour Mode, Colour tone, Signal input, Overdrive, Resolution, Audio source, Smoothing, OSD language, Interpolation, Volume
Button Guide	✓
Integrated power unit	✓

Ports

Signal inputs	DisplayPort (HDCP 1.3), HDMI (HDCP 1.4), DVI-D (HDCP 1.4), Dsub
USB specification	USB 3.1 Gen 1
USB upstream ports	1 x type B
USB downstream ports	2 x type A
Video signal	DisplayPort, DVI (TMDS), HDMI (YUV, RGB), RGB Analog
Sync formats	Separate
Audio input	3.5 mm stereo jack, DisplayPort, HDMI
Audio output	3.5 mm stereo jack

Electric data

Power consumption (typical) [in watt]	11
Maximum Power Consumption [in watt]	44
Power Save Mode [in watt]	0.3
Power consumption off [in watt]	0
Energieeffizienzklasse	E
Energy consumption/1000h [in kWh]	16
Power supply	AC 100-120 V / 200-240 V, 50/60 Hz

Dimensions & weights

Dimensions [mm]	538 x 333-474 x 233
Weight [in kilograms]	6.2
Dimensions without stand [mm]	538 x 318 x 48
Weight without stand [in kilograms]	3.8
Swivel	344 °
Incline forward/backward	5 ° / 35 °
Pivot	✓ 90° (right and left)
Height adjustment range [mm]	140
Hole spacing	VESA standard 100 x 100 mm

Certification & standards

Certification	CE, CB, TCO certified 8.0, EPA Energy Star, TÜV/GS, TÜV/Ergonomics (including ISO 9241-307), TÜV/Blue Low Light Content, TÜV/Flicker Free, EPEAT 2018 (US), cTÜVus, TÜV/S, EAC, PSE, FCC-B, CAN ICES-3 (B), RCM, VCCI-B, CCC, RoHS, China RoHS, WEEE

Software & accessories

Accompanying software and other accessories are available for download	ScreenManager PRO, ScreenSlicer
Additional supply	Power cord, Signal cable DisplayPort - DisplayPort, USB 3.0 cable, Quick guide, Manual on CD
Accessories	EIZO ScreenCleaner (for the best possible clean without scratching the monitor), HH200PR-K (HDMI (High Definition Multimedia Interface) cable), PM200-K (DisplayPort cable to transfer digital video and audio signals.), TC-BRACKET-BK (Thin Client bracket for EIZO Flexstand 3 base)

Warranty

Warranty and service	5 years warranty*

Terms

*) Maximum of 30,000 hours of operation from the date of purchase.**) Zero pixel error guarantee for completely lit sub-pixels (partial pixels ISO 9241-307). Valid: six months from the purchase date.