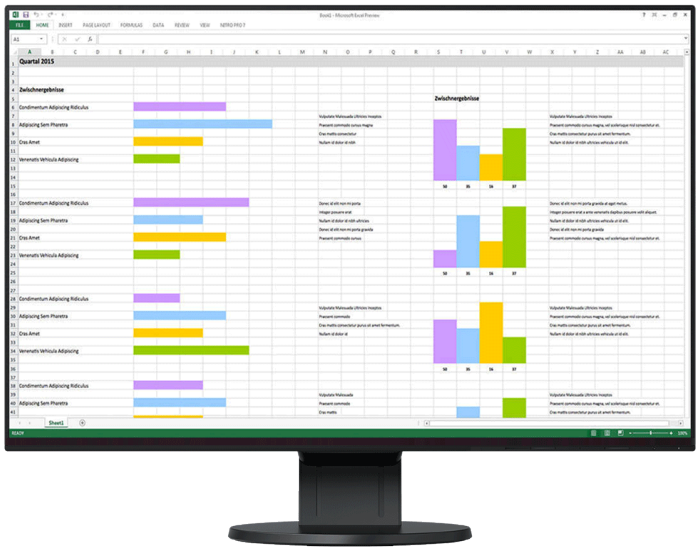
24.1" | Office-Monitor

FlexScan® EV2456



EV2456-BK

Your advantages

5 YEARS WARRANTY

The EIZO FlexScan EV2456 meets the most demanding requirements of a modern computer workstation. Its image quality and ergonomic features are particularly impressive. With a resolution of 1920 x 1200 pixels, an IPS LCD panel with LED backlighting, and an anti-glare surface, this display excels at detailed, crystalclear image reproduction. This is fantastic for office work. Auto EcoView ensures a clear, anti-glare view of the screen and adapts the display brightness to the ambient lighting conditions. The ultra-slim monitor is very compact, thanks to its extremely narrow bezel. The monitor is virtually frameless and is particularly impressive when used for multi-screen viewing. Screen InStyle software, included in the delivery, allows you to control the screen from a Windows PC or from the network. You can operate multi-screen solutions in parallel using Screen InStyle.

- 24.1" LCD monitor with 16:10 aspect ratio and IPS technology for outstanding image quality
- Bezel only 1 mm on both sides and at the top: extremely compact and elegant design
- Contrast 1000:1, brightness 350 cd/m², 178° viewing angle
- Flicker-free image reproduction thanks to hybrid brightness control
- Auto EcoView, EcoView Index, and EcoView Optimizer For maximum power savings and superb ergonomics
- Integrated speakers and headphone jack
- USB 3.0 hub with one upstream and two downstream ports
- DisplayPort, HDMI, DVI-D, and D-Sub inputs for digital and analog connection

Features

Ultra-slim. Ultra-smooth!

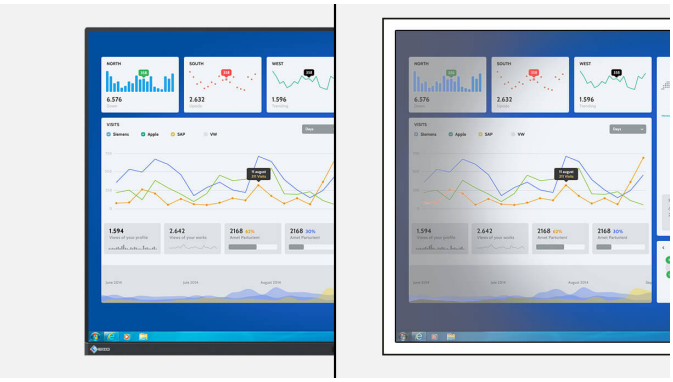
Whether it's in sophisticated black or pristine, eye-grabbing white: The ultra-thin design with its bezel of only 1 mm and its completely flat and smooth front side is truly impressive. A thin black glass frame with a width of just 5 mm is all that separates the display and bezel from one another. Even from the thin side and smart-looking back, the monitor will make passers-by do a double take. The EV2456 model also offers a fully flat front surface with integrated sensor buttons.





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 1200 pixels, maximum contrast of 1000:1, and stable brightness of up to 350 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 colors remain stable from every viewing angle.



EIZO monitor | Conventional monitor



EIZO monitor | Conventional monitor

10 bit LUT for precise color control

When it comes down to color nuances, the integrated 10 bit look-up table (LUT) offers considerable advantages: the allocation of color information is considerably more precise than in other 8 bit look-up tables. The color gradations are extremely fine and offer customized configuration options: The color temperature control can be used to adjust white points from 4000 K to 10000 K in 500 K increments. In addition, the color saturation for RGB colors can be configured separately.



Without 10 Bit LUT



With 10 Bit LUT

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 optimizes 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.

Anti-reflection coating: more image, less reflection

The EV2456 offers a surface with optimal anti-reflection coating. By minimizing glare from the spread of the reflected light, the anti-reflection 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.





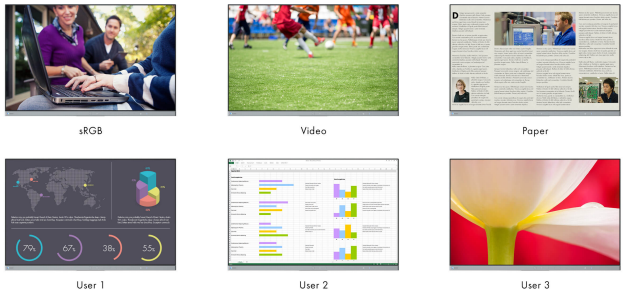
Features

Absolutely flicker-free:

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. PWM control uses refresh rates of 18 kHz. The result: a flicker-free viewing experience Flickering is reduced down to absolute freedom from flickering, without impairing image quality or color 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.

FineContrast modes: Optimized display at the press of a button

The FineContrast modes make it easier for you to work and look at images, texts, or films. Because when choosing color settings, it makes a difference whether you are looking at a film, editing an image, surfing the net, or writing texts. You can configure the respective presettings for brightness, gamma correction, and color temperature at the press of a button. An example: Paper mode simulates the pleasant contrast of books by reducing the blue light portion. This protects your eyes while reading and stops them from getting tired.



Sample display

Screen InStyle

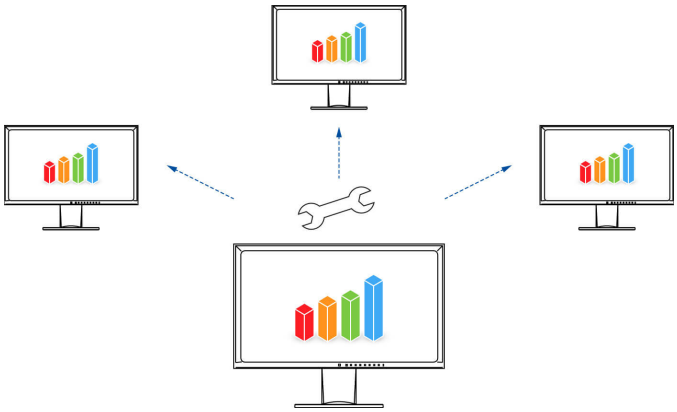
You can conveniently control the EV2456 either by using the Screen InStyle software on a Windows PC or by using the on-screen menu. The configuration options include color reproduction, energysaving options, and ergonomic functions that, for example, allow you to reduce the blue light portion (Circadian Dimming). The Screen InStyle software allows the user to apply the settings to all connected screens when using a multi-screen system.
More about Screen InStyle

Screen InStyle Server is a server application that allows system administrators to centrally manage and control monitors on which Screen InStyle is installed and which are connected to the network. This optimises power consumption and simplifies monitor asset management.
More about Screen InStyle Server

more about Screen InStyle

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 gray-gray change takes only 5 ms ms on average. You can watch films and rapidly changing images without annoying afterglow.

Features

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.



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 color tone values adjusted. The result: You will enjoy the image quality you are used to but consume less power.

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 0.50 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.

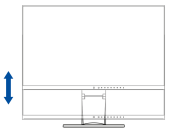
Perfectly organized

The monitor ships with a cable holder, which ensures a clean desk and prevents messy cabling.



Flexible base

Ergonomic and stable: the adjustable base focuses on ergonomics. The monitor base can be twisted, turned, and tilted so that it is most comfortable for your back, neck, and sitting posture. The height can also be seamlessly adjusted and, depending on the model, lowered to the bottom of the base, allowing you to position the top row of the image ergonomically below eye level.



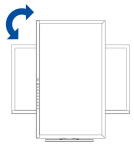
158.6 mm



Tilt up 35°, tilt down 5°



172° (right/left)



Rotation 90° (right and left) clockwise and anti-clockwise

Features

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.	EV2456-BK
Case colors	Black
Solutions	Office
Product line	FlexScan
EAN	4995047049722
Variants	EV2456-WT (Color: White)

Display

RadiCS application classes	VIII
Screen size [in inches]	24.1
Screen size [in cm]	61
Format	16:10
Viewable image size (width x height)	518 x 324
Ideal and recommended resolution	1920 x 1200
Pixel Pitch Horizontal [mm]	0.27 x 0.27
Resolution Supported	1920 x 1200, 1600 x 1200, 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 colors or grayscale	16.7 million colors (display port, 8 Bit), 16.7 million colors (HDMI, 8 Bit), 16.7 million colors (DVI, 8 Bit), 16.7 million colors (Dsub, 8 Bit)
Max. color space	sRGB
Max. brightness (typical) [in cd/m²]	350
Max. dark room contrast (typical)	1000:1
Typical response time [gray/gray alternation]	5 ms
Max. refresh rate [in hertz]	60
Backlight	LED

Features

Color palette / look-up table	1.06 billion color tones / 10 Bit
Overdrive	✓
No flickering thanks to hybrid controls	✓
Signal range amplifier (HDMI)	✓
HDCP Decoder	✓
Preset color/grayscale modes	sRGB, Paper, Movie, DICOM, 2x free modes for user selection
DICOM tone curve	✓
OSD language	de, en, fr, es, it, se, ja, zh
Adjustment options	Brightness, Contrast, Gamma, All EcoView functions, Color saturation, Color temperature, FineContrast, Colour tone, Signal input, Overdrive, Resolution, Audio source, Smoothing, OSD language, Interpolation, Volume
Button Guide	✓
Signal inputs	DisplayPort, DVI-D, HDMI, Dsub
Video Signal	DisplayPort, DVI (TMDS), HDMI (YUV, RGB), RGB Analog
Input Signal Identification	✓
Sync Formats	Separate
Audio Input	3.5 mm stereo jack, DisplayPort, HDMI
Audio Output	3.5 mm stereo jack
Built-in speakers	✓
USB hub	1 Up-/ 2 Down-Stream, Rev. 3.0

Certification & Standards

Certification	CE, TÜV/GS, TÜV/Ergonomics, TCO 8, Energy Star, ISO 9241-307 Klasse 1**, RCM, CB, cTÜVus, FCC-B, ICAN ICES-003-B, TÜV/S, VCCI-B, RoHS, WEEE, CCC

Warranty

Warranty and service	5 years including on-site replacement service

Electric data

Power consumption (typical) [in watt]	11.00
Maximum Power Consumption [in watt]	44
Power Save Mode [in watt]	0.50
Power Consumption Off [in watt]	0
Energy-efficiency class	A++
Annual Energy Consumption [in kWh]	19
Auto-EcoView	✓
EcoView-Index	✓
EcoView-Optimizer	✓
Power Supply	AC 100-120 V / 200-240 V, 50/60 Hz
Power Management	VESA DPMS, DVI-DMPM, DisplayPort Version 1.1a, Eco-Timer
Integrated power unit	✓

Dimensions & Weights

Dimensions [mm]	531 x 357-488 x 233
Weight [in kilograms]	6
Dimensions Without Stand [mm]	531 x 342 x 46
Weight Without Stand [in kilograms]	4
Swivel (right/left)	172 °
Incline forward/backward	5 ° / 35 °
Pivot	✓
Height Adjustment Range [mm]	158.6
Hole Spacing	VESA standard 100 x 100 mm

Software & Accessories

Accompanying software and other accessories are available for download or on a CD	ScreenManager PRO, ScreenSlicer, Screen InStyle
Additional Supply	Power cord, Signal cable DisplayPort - DisplayPort, USB 3.0 cable, Quick guide, Manual on CD, Cable protection
Accessory	EIZO ScreenCleaner (for the best possible clean without scratching the monitor), HH200HS-K (HDMI (High Definition Multimedia Interface) cable to transfer digital video and audio signals.), PM200-K (DisplayPort cable to transfer digital video and audio signals.), PCSK-03-BK (Thin Client Mount for the EIZO FlexStand 4 Stand)

Terms

**) Zero pixel error guarantee for completely lit sub-pixels (partial pixels ISO 9241-307). Valid: six months from the purchase date.

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