



EIZO Introduces Graphics Industry's First Self-Calibrating Monitor

Hakusan, Japan, April 5, 2010 – Eizo Nanao Corporation (TSE: 6737) today introduced the ColorEdge CG245W, the first monitor in the graphics industry with a built-in calibration sensor and self-calibrating capability.



Designed for pre-press, digital photography, video editing, and post production work, this 24.1" LCD monitor houses a built-in calibration device in its upper bezel that swings down at user-scheduled times. This eliminates the need for a third party external calibration device which must be manually placed over the monitor's screen and then removed again every time calibration is performed.

The computer itself is not necessary for self-calibration. By using the scheduling function in the on-screen display menu or the bundled ColorNavigator calibration software, the ColorEdge CG245W can be scheduled to self-calibrate at a specific time and at specific intervals including outside of work hours when the computer is turned off and the user is not present. Since self-calibration is performed independent of the computer, a calibrated ColorEdge CG245W can be used with any operating system even if the OS is not supported by ColorNavigator.

To ensure calibration accuracy, EIZO calibrates each unit of the ColorEdge CG245W in the center of the screen before shipping and correlates the built-in sensor to these results.

ColorNavigator includes a "Correlation Utility" that matches the measurement results of the ColorEdge CG245W's built-in calibration sensor to those of an external calibration device. This may be necessary in a work environment where the ColorEdge CG245W is used with other monitors and all measurement results need to be standardized.

The ColorEdge CG245W uses an IPS (in-plane switching) LCD panel with a native resolution of 1920 × 1200 (16:10 aspect ratio) and reproduces 98% of the Adobe RGB color space. The maximum brightness is 270 cd/m², contrast ratio is 850:1, and the viewing angles are 178°.

One DisplayPort and dual DVI-I inputs are included. The DisplayPort input accepts 10-bit PC signals and can display 1.07 billion colors simultaneously from a pallet of 68 billion.¹ This is 64 times more than the typical 16.7 million colors shown with 8-bit display.

The ColorEdge CG245W offers hardware calibration so the monitors themselves are calibrated rather than the computer's graphics card. This ensures no color tones are lost in the calibration process and results in more predictable on-screen color. EIZO's ColorNavigator calibration software² is used for setting the target values for brightness, white point, and gamma and generating an ICC profile.

EIZO's Digital Uniformity Equalizer (DUE) function is included to counteract brightness and chroma uniformity errors that are characteristic of LCD panels. This ensures the monitor has a Delta-E difference of 3 or less across the entire screen.

To ensure proper display of brightness and color tones in various ambient environments and over the



life of the monitor. The first is a new EIZO-patented function that stabilizes the brightness level after the monitor starts up or comes out of power saving mode. The second is an automatic brightness correction circuit that automatically corrects changes in the backlight's brightness that occur over time. The third feature counteracts the influence that changes in ambient temperature can have on the display of color tones.

The ColorEdge CG245W includes an illuminated on-screen button guide that simplifies adjusting the OSD menu in a dimly lit working environment. It also offers six preset color modes that reproduce common color spaces used in pre-press, digital photography, broadcasting and digital cinema: Adobe RGB, sRGB, Rec709, EBU, SMPTE-C, and DCI.

Additional Features

- Outfitted with a shading hood that can be used in portrait mode as well as landscape mode.
- Ergonomic FlexStand which offers portrait display, 157 mm height adjustment, 30° tilt, 344° swivel, and 90° rotation.
- 16-bit internal processing for smooth display of grayscale tones.
- 3D-look up table (LUT) that improves the panel's additive color mixture (combination of red, green, and blue), a key factor in its ability to achieve gray balance or neutral gray tones.
- Simulation of three types of red-green color vision deficiency – protanopia and deuteranopia, as well as tritanopia, a blue-yellow color vision deficiency – for verification of how color schemes appear to people with color blindness³.
- Five-year manufacturer's warranty⁴.

Availability

The ColorEdge CG245W is now shipping. Date of availability for both models varies by country so please contact the EIZO subsidiary or distributor in your country for details.

About EIZO

Eizo Nanao Corporation is a leading global manufacturer of high-end visual display products. The image quality, long-term reliability, and innovative features of EIZO monitors make them the products of choice in many financial trading rooms, hospitals, back offices, and design studios throughout the world. EIZO is represented in over sixty countries by subsidiaries and a network of distributors.

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¹ A graphics board and software which support 10-bit output are necessary for 10-bit display.

² Compatible OSes are Macintosh OS X 10.3.9 and later, Windows 7 (32-bit, 64-bit), Windows Vista (32-bit, 64-bit) and Windows XP (32-bit, 64-bit).

³ Requires the UniColor Pro software for toggling between modes. This software is compatible with Windows 7/Vista/XP/2000 and Mac OS 10.3.9 or later and can be downloaded free of charge from www.eizo.com.

⁴ The usage time is limited to 30,000 hours and the warranty period of the LCD panel is limited to three years from the date of purchase.

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