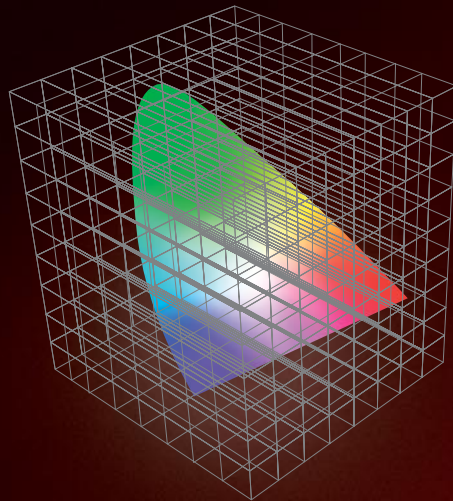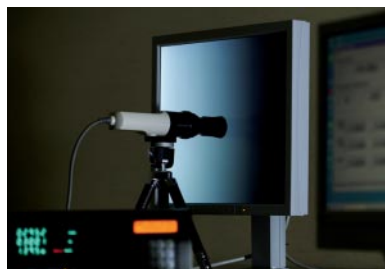EIZO

# ColorEdge™

**COLOR CALIBRATION LCD MONITORS**

Color accuracy and calibration for turning
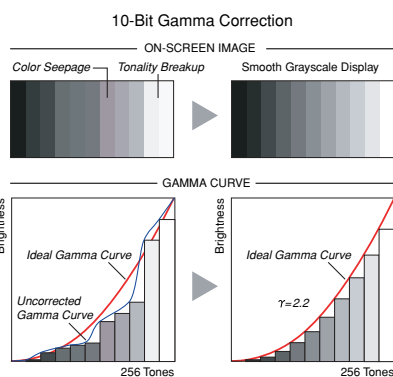creative vision into reality.

## FACTORY ADJUSTMENT OF GAMMA

Not only are the ColorEdge models designed for accurate color reproduction, but each unit is adjusted at the factory to a gamma value of 2.2. This is accomplished by measuring the R, G and B gamma values from 0 – 255, then using the monitor's 10-bit Look-Up Table (LUT)



*Each monitor adjusted individually at the factory. (For illustrative purposes only. Actual adjustment is performed in a darkroom.)*

with its 1,021-tone palette to select the 256 most appropriate tones to achieve the 2.2 value. Users can also set their own values from 1.8 to 2.6 with the ColorNavigator software.

This is important because accurate, non-fluctuating gamma values are necessary for the proper display of color. If colors are not based on specific values and cannot be adjusted, images will be displayed differently by different monitors. ColorEdge monitors



provide both precision and consistency, so graphics professionals can be sure that the final product will look exactly the way they want it to. In fact, each monitor comes with an Adjustment Certificate that certifies the measurement results of the gamma value.

### ACCURATE COLOR TEMPERATURE

Another important factor in achieving accurate, natural colors, especially for midtones, is setting the proper color temperature for white (white point). The CG21 and CG18 are exceptionally versatile in this regard, providing color temperature adjustment from 4,000K to 10,000K in 500K increments (including 9,300K). This wide range ensures that users can achieve the optimum color temperature for any type of work, such as "paper white" for DTP.

### COLORNAVIGATOR CALIBRATION SOFTWARE

Both ColorEdge monitors come bundled with EIZO's own ColorNavigator calibration software. ColorNavigator is designed to be used with the GretagMacbeth Eye-One™ spectrophotometer (sold separately), making it a simple matter to adjust brightness, color temperature and gamma to exactly the desired values. This degree of accuracy means that if the photographer, designer and printer all use ColorNavigator, they are assured of achieving precise color matching. In addition,



*ColorNavigator adjustment screen and calibration results.*

calibration results can be saved as a ColorSync profile and used for color management with other peripheral devices.
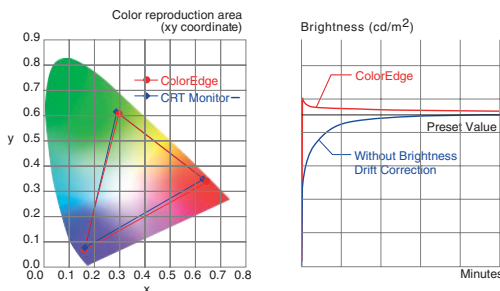
ColorNavigator was developed by EIZO to take full advantage of the hardware capabilities, specifically the 10-bit Look-Up Table, of the CG21 and CG18. As such, it provides accuracy and convenience unmatched by other calibration software.



*Note: ColorNavigator is compatible with the Macintosh® OS 9.2.2 and OS X 10.2 or later, and Windows 98SE/Me/2000/XP operating systems.*

### COLOR AND CLARITY TO THE HIGHEST STANDARDS

The CG21 employs a Super IPS (In-Plane Switching) panel, while the CG18 has a Dual-Domain IPS panel. Products of the latest LCD technology, these panels offer a 400:1 contrast ratio, high 250 cd/m² brightness, and a color reproduction range on par with CRT standards. They also feature wide 170° viewing angles with barely any color shift when seen from off-center. An EIZO-patented circuit stabilizes the brightness level after startup, preventing annoying brightness fluctuations.



### ERGONOMIC THIN BEZEL DESIGN

Like all EIZO LCD monitors, these two models are ergonomically designed to provide a number of practical benefits. First is the considerable space saved on the desktop by the thin bezels on all four sides. This design also minimizes the distance between screens in multi-panel arrays. Both monitors have height adjustable stands (CG18: 100 mm, CG21: 82 mm) and allow 40° tilt and 70° swivel, so every person can find the optimum viewing position. The panels also rotate 90° for portrait mode operation and can be removed from the stand for arm or wall mounting in accordance with VESA standards.

*Note: Specialty software (sold separately) is necessary for viewing in portrait mode.*

### DIGITAL AND ANALOG SUPPORT

Both monitors accept digital and analog input. The CG21 has one DVI-I input for direct digital connection and one D-Sub input, while the CG18 has dual DVI-I inputs to allow the connection of two computers simultaneously. Priority can be given to one input, or switching between them can be done manually by pressing a button on the front bezel.

### 6-MODE FINE CONTRAST CONTROL

The CG21 and CG18 provide the ability to "fine-tune" the image for the type of application being used. Six modes (Text, Picture, Movie, Custom, sRGB and Calibration) can be selected via a handy button on the front bezel. Each mode contains default settings for image parameters such as brightness, color temperature, gamma and saturation.

## Additional Features

### MACINTOSH ADC SUPPORT

Both monitors provide support for the Macintosh ADC (Apple Display Connector) port with an ADC-DVI converter (sold separately).

### FULL INTERNATIONAL COMPLIANCE

Both monitors comply with leading industry standards, including TÜV/Ergonomics, EPA Energy Star and the new TCO'03. They also conform to EIZO's own strict Eco Products 2002 environmental criteria for design, manufacture, packaging and usage, including the introduction of lead-free solder and chrome-free steel plates.

## Accessories

### i·Sound L2

This sound unit offers dual speakers at 2 watts each, and attaches directly to the bottom of the panel so not to increase the overall footprint.

### FP-601 & FP-901

To prevent dust and scratches, EIZO offers protection sheets that fit right over the screen surface and leave minimal trace of implementation.

### LS-HM0-D

(CG18 only) – Dual height adjustable stand that holds two monitors, has 6-stage height adjustment from 0 – 70 mm, supports portrait display, and offers cable housing.

| | ColorEdge™ CG21 | ColorEdge™ CG18 |
|---|---|---|
| Panel Size and Type | 54 cm (21.3") TFT color LCD panel | 46 cm (18.1") TFT color LCD panel |
| Available Cabinet Colors | Gray, Black | Gray, Black |
| Pixel Pitch | 0.270 mm × 0.270 mm | 0.2805 mm × 0.2805 mm |
| Display Colors | 16.7 million | 16.7 million |
| Viewing Angles | H: 170°, V: 170° | H: 170°, V: 170° |
| Scanning Frequency | Analog: 24 kHz – 94 kHz, 49 Hz – 86 Hz | Analog: H: 30 – 82 kHz, V: 49 – 86 Hz |
| | Digital: 31 kHz – 76 kHz, 59 – 61 Hz (VGA Text: 69 – 71 Hz) | Digital: H: 30 – 65 kHz, V: 59 – 61 Hz (VGA Text: 69 – 71 Hz) |
| Native Resolution | 1600 × 1200 | 1280 × 1024 |
| Brightness | 250 cd/m$^2$ (typical) | 250 cd/m$^2$ (typical) |
| Contrast Ratio | 400:1 (typical) | 400:1 (typical) |
| Dot Clock | Analog: 202.5 MHz, Digital: 162 MHz | Analog: 135 MHz, Digital: 108 MHz |
| Response Time | 50 ms (typical) | 40 ms (typical) |
| Input Signals | RGB Analog, DVI Standard 1.0 | RGB Analog, DVI Standard 1.0 |
| Input Terminal | D-Sub mini 15 pin, DVI-I 29 pin | DVI-I 29 pin × 2 (switchable) |
| USB Ports / Standard | 1 upstream / Rev. 1.1 | 1 upstream, 4 downstream / Rev. 1.1 |
| Active Display Size (H × V) | 432 mm × 324 mm | 359 mm × 287 mm |
| Viewable Image Size | 540 mm (diagonal) | 459 mm (diagonal) |
| Plug & Play | VESA DDC 2B | VESA DDC 2B |
| Screen Control | ScreenManager®, ColorNavigator, | ScreenManager®, ColorNavigator, |
| | One Touch Auto Adjustment Function | One Touch Auto Adjustment Function |
| Power Requirements | AC 100 – 120V / 200 – 240V, 50 – 60 Hz | AC 100 – 120V / 200 – 240V, 50 – 60 Hz |
| Power Management | VESA DPMS, EIZO MPMS, DVI-DMPM | VESA DPMS, EIZO MPMS, DVI-DMPM |
| Power Consumption | 60 watts | 56 watts |
| Power Save Mode | Less than 3 watts | Less than 5 watts |
| OSD Languages | English, French, German, Italian, Japanese, Spanish, Swedish | English, French, German, Italian, Japanese, Spanish, Swedish |
| Dimensions (W × H × D) | With Stand: 472 mm × 459 – 541 mm × 208.5 mm | With Stand: 399 mm × 404 – 504 mm × 203 mm |
| | Without Stand: 472 mm × 373 mm × 69 mm | Without Stand: 399 mm × 328 mm × 65 mm |
| Height Adjustment Range | 82 mm | 100 mm |
| Net Weight | With Stand: 10.2 kg , Without Stand: 7.0 kg | With Stand: 8.0 kg, Without Stand: 5.5 kg |
| Tilt / Swivel | 40° Up, 0° Down / 35° Right, 35° Left | 40° Up, 1° Down / 35° Right, 35° Left |
| Certifications and Standards | TCO'03 (gray), TCO'99 (black), TÜV/Ergonomics, | TCO'03 (gray), TCO'99 (black), TÜV/Ergonomics, |
| | TÜV/GS, c-Tick, CE, CB, UL 60950: 2000, CSA | TÜV/GS, c-Tick CE, CB, UL 60950: 2000, CSA |
| | C22.2 No.60950-00, FCC-B, Canadian ICES-003-B, | C22.2 No.60950-00, FCC-B, Canadian ICES-003-B, |
| | TÜV/S, VCCI-B, EPA ENERGY STAR®, | TÜV/S, VCCI-B, EPA ENERGY STAR®, |
| | EIZO Eco Products 2002 | EIZO Eco Products 2002 |
| Audio | i·Sound™ L2 (option) | i·Sound™ L2 (option) |
| Supplied Accessories | AC power cord, signal cables (D-Sub – D-Sub, | AC power cord, signal cables (D-Sub – DVI-D, |
| | D-Sub – DVI-I, DVI-D – DVI-D), USB cable, | DVI-D – DVI-I), USB cable, EIZO LCD Utility Disk |
| | EIZO LCD Utility Disk (ColorNavigator, HTML | (ColorNavigator software, HTML user's manual, |
| | user's manual, ICC profile), adjustment certificate, | ICC profile), adjustment certificate, |
| | warranty registration card | warranty registration card |

With current LCD technology, a panel may contain a limited number of missing or flickering pixels.

Specifications are subject to change without notice.