

TOTOKU
CCL Series

2 Megapixel 21.3" Color LCD

NEW CCL212

21.3"

Color liquid crystal panel

Analog & Digital

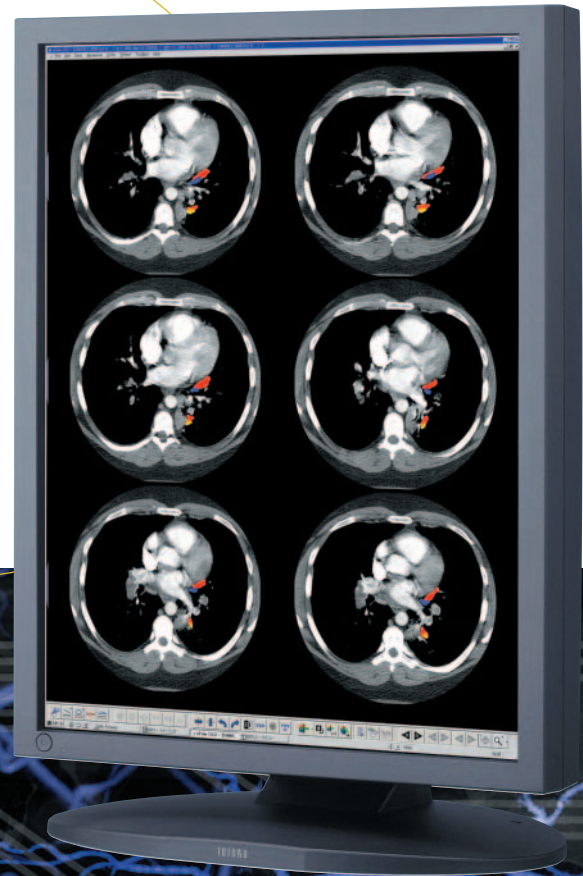
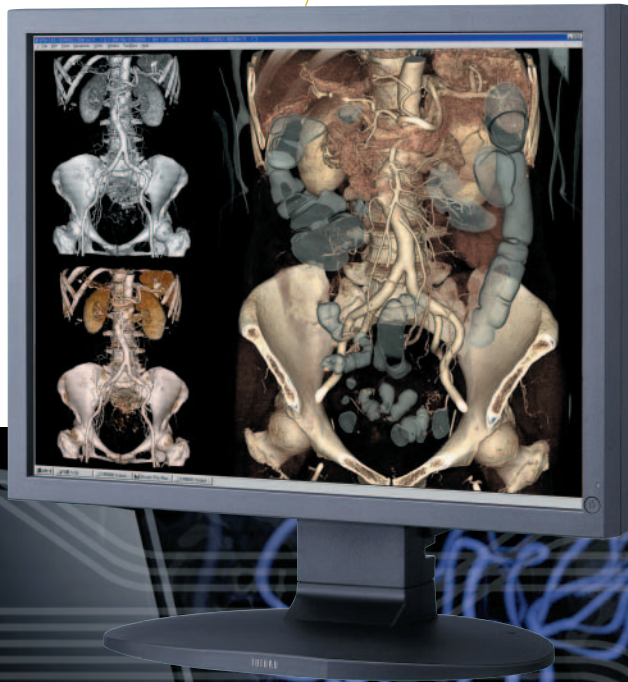
1200 × 1600

High luminance 450cd/m²

Contrast 450:1

VESA mounting

2 Megapixel Color Display



21.3

 Medivisor® 

**2 Megapixel High-Resolution Color LCD
with Super-High Luminance 450cd/m²
and Longer Lifetime**

A large (21.3") 2 megapixel high-resolution color LCD, CCL212, mounted with super-high luminance and long lifetime backlight

Newly developed λ -X3 technology achieved super high luminance (450cd/m²) and long lifetime (Three-times longer than other TOTOKU displays). Along with the use of λ -sentinel (a built-in luminance stabilizing circuit), CCL212 delivers and maintains stable luminance for a long period of time.

λ -Sentinel

Stable luminance by λ -Sentinel

λ -Sentinel brings the backlight to the preset (calibrated) luminance within seconds and keeps it there with a multi-sensor, feedback control circuit, thereby maintaining calibration through backlight aging and temperature variations.

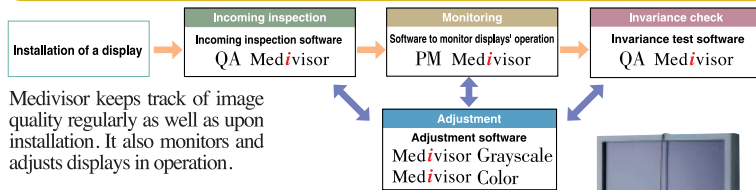
Gamma correction

Gamma curve data is stored within the display during calibration. This enables smooth grayscale display.

Dual interface

CCL212 supports both digital (DVI) and analog (D-sub) interfaces from VGA (640 x 480) to UXGA (1600 x 1200) display.

Medivisor (optional software)



Color Calibration

Medivisor[®] Color

The calibration kit* (optional) controls luminance, color temperature, and gamma curve, which enables reproduction of truthful colors and adjusts variation in colors and luminance between monitors. With simple operation, Medivisor Color provides truthful colors for the critical diagnostic work environment.

* Model : CAL008

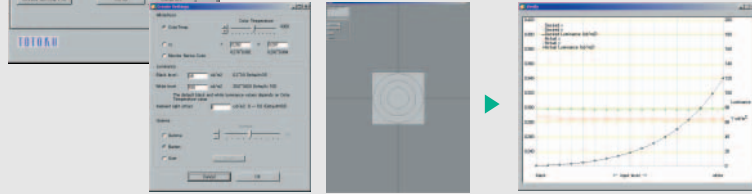


Calibration Process

Attache the calibration sensor to the screen. Just click on the "Calibrate" button on the screen, and it automatically calibrates the monitor in 5 minutes.

Viewing Results

After calibration, it displays the results in graphs with numerical values. This is making the comparison easier with the user settings.



Compliance with standards

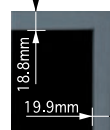
The display is certified to UL, CSA, and TÜV medical standards.



Structure

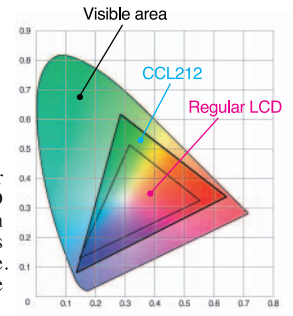
- The standard tilt stand can be removed. The display is designed for VESA* standard mounting, so it can be wall mounted or used connected to an arm or other equipment.
- Slim bezel for optimum viewing of multi-display installations.

* VESA: Abbreviation of Video Electronics Standards Association. The association determines standards concerning displays.



Wider range of color reproducibility

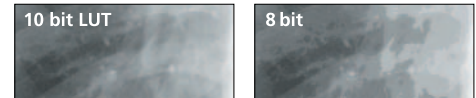
CCL212 displays a much wider range of colors than regular LCD monitors. Up to 16.77 million colors out of 106.433 million colors are simultaneously displayable. CCL212 reproduces colors more truthfully.



*The graph is for illustrative purposes.

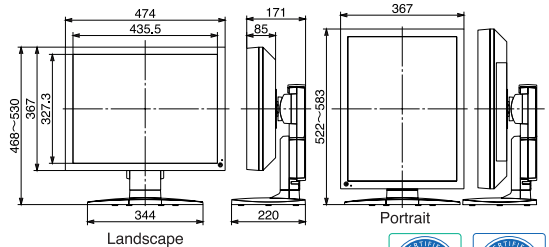
Excellent 10bit display

The built-in LUT (Look Up Table) converts 8bit (256 shades of gray) input image data from graphics card into 10bit (1021 shades of gray), which enhances the image quality and accuracy.



*The images shown are for illustrative purposes.

Model name	CCL212 CCL212/f (with Protective filter)
LCD panel	21.3" TFT color LCD Viewing angle 170° (vertically and horizontally) Contrast 450:1
Screen display size	Horizontal: 432.0 mm, vertical: 324.0 mm (when used wide wise)
Input signal	Digital: In conformity with DVI Rev 1.0 Analog: Analog RGB
Resolution	640 x 480 - 1600 x 1200 (UXGA)
Color display	Full color (16.77 million colors)
Grayscale display	1021-step gradation to 256 gradation display
Maximum luminance	450 cd/m ² (calibrated to 200cd/m ² by factory default)
Safety standards	Medical Safety: UL60601-1, CSA C22.2 No.601.1, MDD/CE, TÜV/GM, FDA510(K) (applying) EMC: FCC-A, VCCI-A, BSMI, MIC
Dimensions (including the tilting base)	Landscape: 474 (W) x 468-530 (H) x 220 (D) mm Portrait: 367 (W) x 522-583 (H) x 220 (D) mm
Weight	Appr. 11.5 kg
Input power supply	AC100 - 240 V 50/60 Hz
Maximum power consumption	Appr. 85 W (with power management feature)
Calibration control (optional)	Luminance, gamma Color temperature (5000K-10000K)
Tilting base	Tilting/swiveling base with a vertically/horizontally rotating feature
Other features	OSD(On screen display), DDC2B, RS232C, USB hub
Accessories	AC adapter, power cord, operation manual, DVI cable, VGA cable, USB cable, serial cable



TOTOKU has obtained ISO14001 and ISO9001 certification which are international standards concerning environment management and quality control respectively.

Safety precautions

To ensure safe use of the products, read the Operation Manual / Safety before using them.

Do not install the products in areas where they may be affected by water, dust, humidity, or oily smoke. Storing the products in such conditions could cause a fire, equipment failure or electrical shock.



TOTOKU Sales Department MM Company Totoku Electric Co., Ltd.

1-3-21 Okubo, Shinjuku-ku, Tokyo 169-8543 TEL: +81 3-5273-2022 FAX: +81 3-5273-2091
*Osaka Branch: +81 6-6352-3541 *Nagoya Branch: +81 52-771-1161 *Shinetsu Branch: +81 268-34-5285

USA
TOTOKU NORTH AMERICA, INC
1425 Greenway Dr., Ste. 565
Irving, Tx 75038, U.S.A.
TEL: +1-469-442-0112
E-mail: info@totoku-na.com

EUROPE
TOTOKU ELECTRIC CO., LTD.
Jakob-Krebs-Str. 124
D-47877 Willich-Amrath Germany
TEL: +49-2156-4918-0
E-mail: info@totoku.de

ASIA
TOTOKU ELECTRIC CO., LTD.
3-21, Okubo-1 Chome
Shinjuku-ku, Tokyo, Japan
TEL: +81-3-5273-2053
E-mail: mmc@totoku.co.jp

Current and updated information is provided on the Internet at <http://www.totoku.co.jp/dp/>

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