

TOTOKU

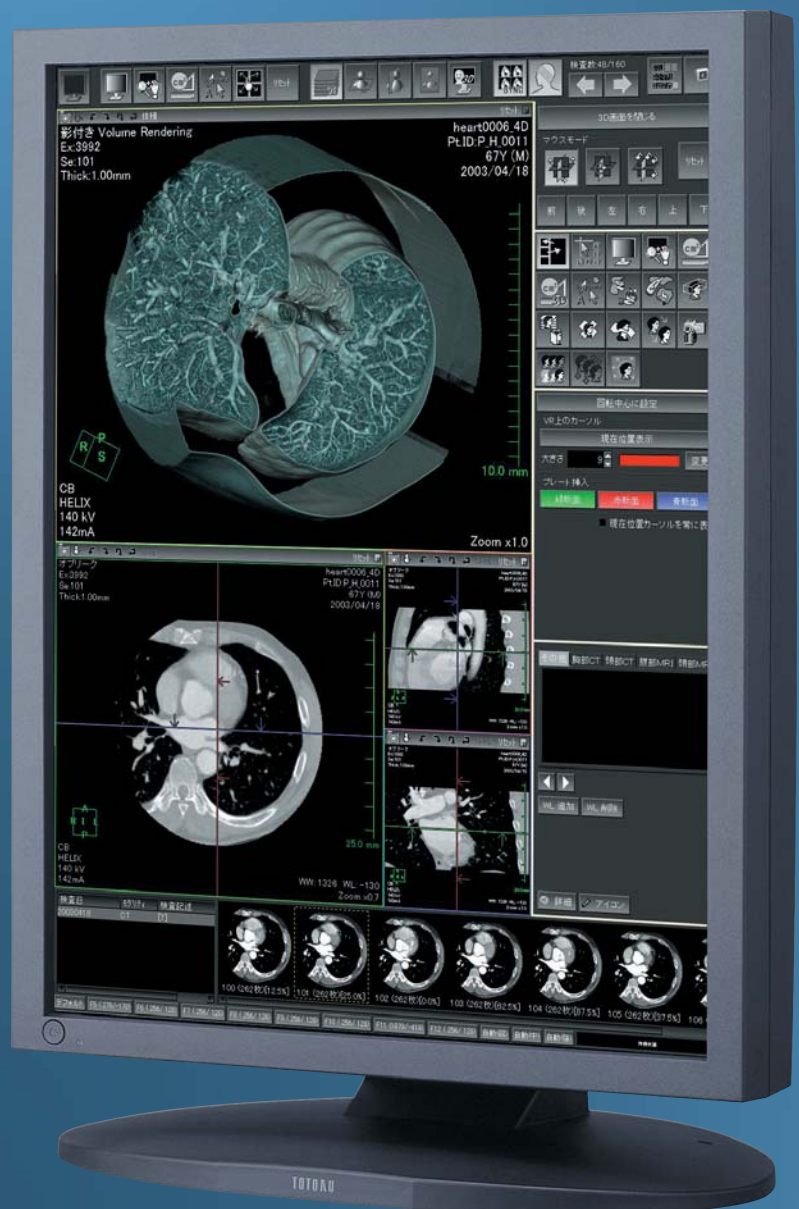
2 Megapixel
21.3" Color Display

CCL212 /r

CCL Series

2MP color LCD with color calibration function and high luminance of 450cd/m²

Dual analog/digital interfaces with a color calibration function.
Its built-in luminance stabilizing system provides stability in luminance.



*Flat Display System
for Medical Imaging*

2

Megapixel
Color Display

High Luminance

21.3"

Analog
&
Digital

High
luminance
450cd/m²

Contrast
450:1

Calibration
function

10Bit
LUT

LED
Indicator

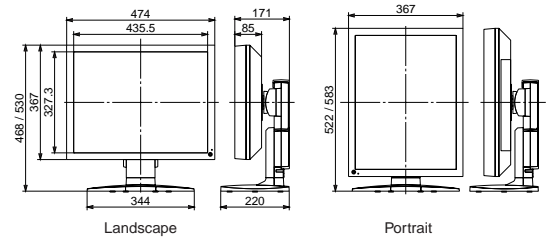
Multi
function
Stand

Features :

- ▶ **Color calibration function to reproduce colors faithful to the original and grayscale compliant with DICOM Part 14**
By calibrating color temperature, luminance, and gamma characteristics, reproduction of colors faithful to the original and smooth display of grayscale are possible. (A calibration kit is required.)
- ▶ **High luminance, large 21.3-inch LCD**
Achieves the highest-in-class luminance of 450cd/m².
- ▶ **Built-in 10bit LUT (Look-up Table) to reproduce beautiful grayscale**
The built-in LUT selects the most appropriate 256 shades of gray (8bit) out of 1021 shades (10bit) to realize finer and smoother grayscale.
- ▶ **Luminance stabilizing system λ-Sentinel for stable display of medical images**
Automatically corrects and luminance fluctuation due to startup drift, temperature change, and aging to provide stable luminance.
- ▶ **Dual digital / analog interface**
Analog RGB and digital DVI inputs are supported.
- ▶ **LED indicator to inform of current status**
A glance at the LED indicator tells you the display's current operating status.
- ▶ **Worldwide medical safety standards**
This display is certified under various medical safety standards that are much more demanding than those for general-purpose IT equipment.
- ▶ **Medivisor Series software (Optional)**
The Medivisor Series software offers collective support for display quality control and delivers high-quality and stable medical images while realizing reduction in display quality management costs.

Specifications

Model Name	CCL212 /r	
LCD Panel	Technology	21.3-inch, TFT Color Active matrix
	Display Area	432mm X 324mm
	Pixel Pitch	0.270mm X 0.270mm
	Contrast Ratio	450 :1 (Typ.)
	Maximum Luminance	450cd/m ² (Typ.), (calibrated to 200cd/m ² by factory default)
Visual Performance	Viewing Angle	170° vertical and horizontal
	Available Resolution	640 X 480 (VGA), ~1600 X 1200 (UXGA)
	Color display	Full color (16.77million colors)
Input Signal	Input Sync Signal	Digital DVI / Analog RGB
	Plug and Play	DDC2B compliant
Input Power Supply	Input	AC adapter 100V ~ 240V (-10%, +6%) 50/60Hz
	Maximum Power Consumption	85W Typical (with power management feature)
Features	Calibration Control	Luminance, Gamma, Color temp. (A calibration kit is required.)
	USB Hub	USB Rev. 1.1 compliant, Bus-powered USB upstream connector (x1), USB downstream connector (x2)
Approvals	UL-60601-1, CSA C22. 2 No.601.1, MDD/CE, FDA510(k), MIC, CCC, FCC-B, VCCI-B	
Physical Characteristics	Dimensions (incl. tilt stand)	Landscape : 474 (W) X 468 / 530 (H) X 220.0 (D) mm Portrait : 367 (W) X 522 / 583 (H) X 220.0 (D) mm
	Weight	Net: approx. 11.5kg, Without tiltstand: approx. 7.3kg
	Tilt stand	Tilt, Swivel, Portrait / Landscape
	Mount	100mm VESA mounting
	Security Slot	Antitheft security slot (Panel and tilt stand)
Accessories	AC adapter, Power cord(3P), DVI cable, VGA cable, Serial cable, USB cable, Operation manual	



TOTOKU has obtained ISO14001 and ISO9001/ISO13485 certification which are international standards concerning environment management and quality control respectively.



Safety Precautions	Please read the user's manual for safe and proper use.
Do not expose the product to dust, moisture, steam, or oily smoke. It could cause fire, electric shock, or a failure.	

TOTOKU

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Additional product information is available at <http://www.totoku.com/display/>

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