

TOTOKU

2 Megapixel
20.1" Color Display

CCL204

CCL Series

2MP color LCD with color calibration function

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

- 20.1"
- Analog & Digital
- High luminance 300cd/m²
- Contrast 1000:1
- Calibration function
- 10Bit LUT
- 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.)
- ▶ **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**

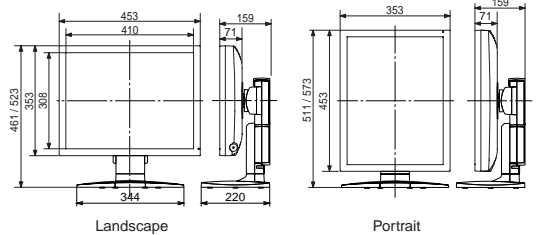
Analog RGB and digital DVI inputs are supported.
- ▶ **Worldwide medical safety standards**

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	CCL204	
LCD Panel	Technology	20.1-inch, TFT Color Active matrix
	Display Area	408mm X 306mm
	Pixel Pitch	0.255mm X 0.255mm
	Contrast Ratio	1000 :1 (Typ.)
	Maximum Luminance	300cd/m ² (Typ.), (calibrated to 120cd/m ² by factory default)
Visual Performance	Viewing Angle	178° vertical and horizontal
	Available Resolution	640 X 480 (VGA), ~1600 X 1200 (UXGA)
Input Signal	Grayscale	10bit(1021) grayscale to 8bit(256) grayscale
	Color display	Full color (16.77million colors)
Power Supply	Input Sync Signal	Digital DVI / Analog RGB
	Plug and Play	DDC2B compliant
Features	Input	AC adapter 100V ~ 240V (±10%) 50/60Hz
	Calibration Control	Maximum Power Consumption 70W Typical (with power management feature) Luminance, Gamma, Color temp. (A calibration kit is required.)
Approvals	USB Hub	USB Rev. 2.0 compliant, Bus-powered USB upstream connector (x1), USB downstream connector (x2)
	Dimensions (incl. tilt stand)	UL60601-1, CSA C22.2 No. 601.1, MDD/CE, FCC-B, VCCI-B, FDA510(k)
Physical Characteristics	Weight	Landscpe : 453 (W) X 461 / 523 (H) X 220.0 (D) mm Portrait : 353 (W) X 511 / 573 (H) X 220.0 (D) mm
	Tilt stand	Net: approx. 11.4kg, Without tiltstand: approx. 7.0kg
	Mount	Tilt, Swivel, Portrait / Landscape
	Security Slot	100mm VESA mounting
	Protective Filter	Antitheft security slot (Panel and tilt stand) Antireflection-coated protective filter
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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