

TOTOKU

*Flat Display System
for Medical Imaging*

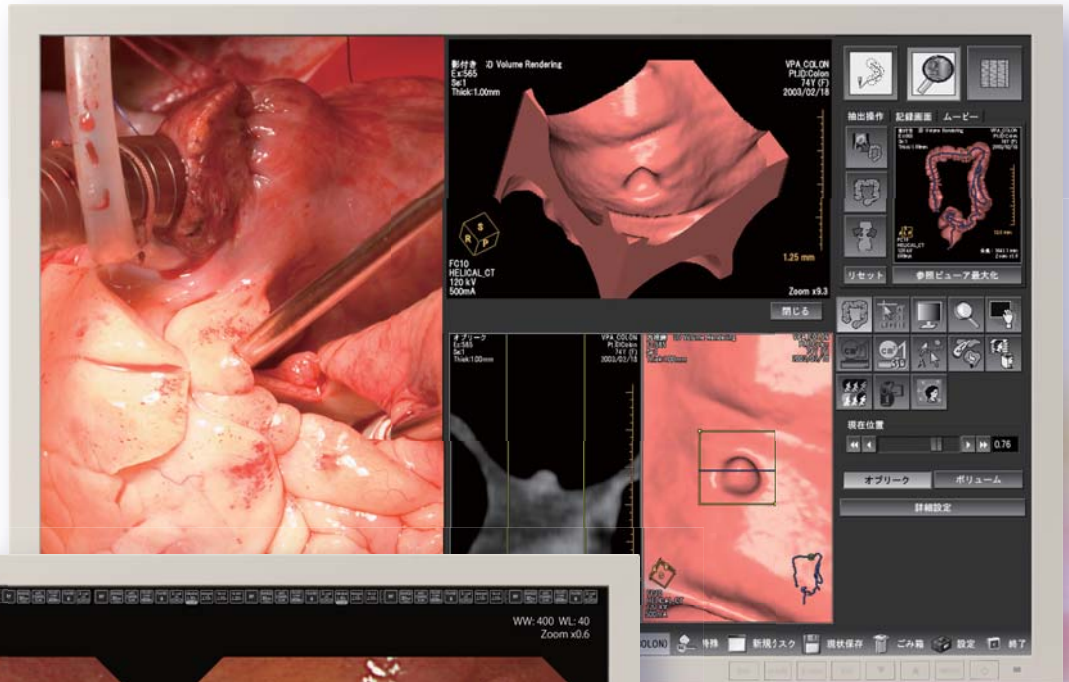
New
21.5" Color Display

CCL220

New
24.1" Color Display

CCL244

CCL Series



CCL244



CCL220

Advanced surgical display for the operating room providing the most accurate images with full HD capability and LED backlight

CCL220	21.5"	250 cd/m ²	1000:1	LED Backlight	Multi Input	Analog Output	Internal Power Supply	Picture in Picture	Picture by Picture	Special AR Coating
CCL244	24.1"	300 cd/m ²	1000:1	LED Backlight	Multi Input	Analog Output	Internal Power Supply	Picture in Picture	Picture by Picture	Special AR Coating

Features :

▶ IPS Panel Technology

IPS panel technology provides high brightness, a wide viewing angle and accuracy in color.

▶ AR Coating

AR coating technology addresses properties of focus, noise reduction, high contrast and less reflection to produce crisper images.

▶ Multi-Interface

CCL220 and CCL244 support multiple interfaces including DVI, HDMI, Analog RGB, S-Video, HD-SDI and NTSC/PAL. (DVI and HDMI for input only)

▶ Multi-Resolution

From VGA 640 x 480 to HDTV 1920 x 1080 (1920 x 1200 with CCL244), a wide variety of signals are supported.

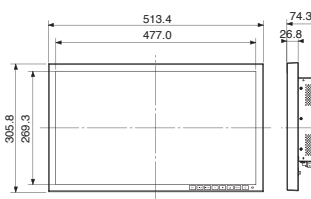
▶ Picture-in-Picture (PIP), Picture-by-Picture (PbyP)

These features allow two videos/images from multiple signal inputs to be displayed simultaneously so that surgeons can effectively obtain required information.

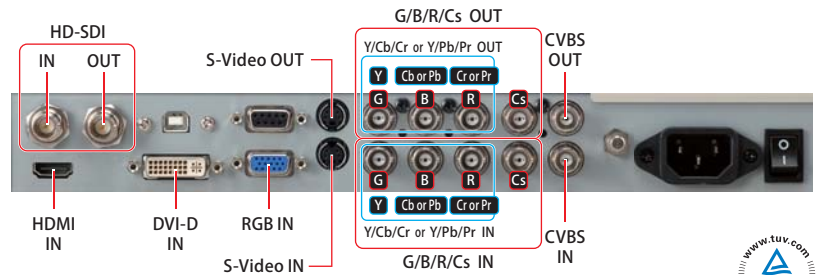
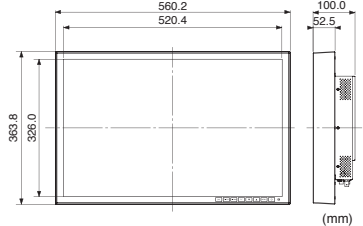
Specifications

Model Name	CCL220	CCL244	
LCD Panel	Technology	21.5-inch, TFT color active matrix IPS technology	24.1-inch, TFT color active matrix IPS technology
	Display Area	475.2 mm x 267.3 mm	518.4 mm x 324 mm
	Contrast Ratio	1000:1 (typ)	
	Maximum Luminance	250cd/m ² (typ)	300cd/m ² (typ)
	Viewing Angle	178° vertical and horizontal (Wide view)	
Visual Performance	Native Resolution	1920 x 1080	1920 x 1200
	Grayscale	256 shades of grayscale are simultaneously displayed from a palette of 1021 grayscale steps	
	Display Colors	16.77 million colors from a palette of 1.06 billion colors	
Interface	Input Signal	DVI, HDMI, D-sub 15 pin→RGB, S-Video, BNC(HD-SDI), BNC(Y·Cb·Cr), BNC(Y·Pb·Pr) BNC(CVBS)→NTSC/PAL, BNC(G·B·R·Cs)→RGBS	
	Output Signal	S-Video, BNC(HD-SDI), BNC(Y·Cb·Cr), BNC(Y·Pb·Pr) BNC(CVBS)→NTSC/PAL, BNC(G·B·R·Cs)→RGBS	
Input Power Supply	Input	100V~240V	
	Maximum Power Consumption	60W (typ)	
Features	Picture-in-Picture (PIP), Picture-by-Picture (PbyP)		
Approvals	ANSI/AAMI ES60601-1(2005) + A1 (2012), CAN/CSA-C22.2 No. 60601-1(2008), CE (EN60601-1, EN60601-1-2), FCC Part15 subpart B Class B, ICES-003-B, VCCI ClassB, CCC, FDA 510(k)		
Physical Characteristics	Dimensions	513.4(W) x 305.8(H) x 74.3(D)mm	560.2(W) x 363.8(H) x 100.0(D)mm
	Weight	About 5.1 kg	About 7.1 kg
	Mount	VESA mounting 100mm x 100mm	
Accessories	Power cord, DVI cable, Users manual		

CCL220



CCL244



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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.

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