Hamamatsu C4880-AMDIG-2
44-Pin Male D-Sub to 68-Pin Male VHDCI Cable,

Approximate 17 ft.



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DATA SHEET

Digital CCD Camera C4880-21



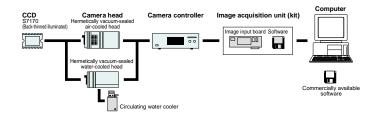
Hermetic vacuum sealed air-cooled head type

This camera system is equipped with a CCD S7170 manufactured by Hamamatsu. In addition to outstanding quantum efficiency in the ultra violet to near infrared region, which is a feature of the back-thinned illumination type, this system offers high quantum efficiency in the ultraviolet region as well, drawing on original technology developed independently by HAMAMATSU. It offers a wide dynamic range, due to the large cell size (24 I m I 24 I m) and the extremely large full well capacity. Furthermore, the use of the MPP (Multi-Pinned Phase) low dark current drive method has reduced the dark current.

APPLICATIONS

- X-ray scintillator readout
- Readout of various fluorescences
- X-ray diffraction readout
- **Neutron radiography**

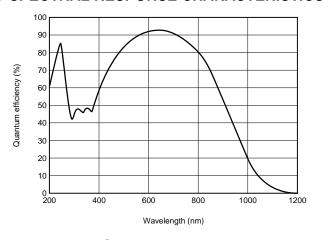
SYSTEM CONFIGURATION





Hermetic vacuum sealed water-cooled head type

SPECTRAL RESPONSE CHARACTERISTICS



FEATURES

- High guantum efficiency in the ultra violet to near infrared region.
- Wide dynamic range of 28,750 : 1 (typ.)
- Extremely large full well capacity of 230,000 electrons (typ.)
- Low readout noise of 8 electrons r.m.s. (typ.)
- Low dark current
- Large effective area of 12.29 (H) 1 12.29 (V) mm
- High resolution of 512 (H) 512 (V) pixels

TYPE NO.

C4880-21-Cooling method A: Air-cooling Bit number on A/D converter

W: Water-cooling

22: Fast scan mode 12-bit High precision scan mode 12-bit

24: Fast scan mode 12-bit High precision scan mode 14-bit

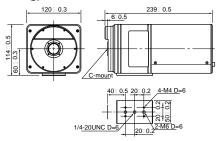
26: Fast scan mode 12-bit High precision scan mode 16-bit

SPECIFICATIONS

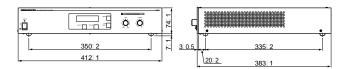
Model name		C4880-21-□□-A	C4880-21-□□-W
Camera head type		Hermetically vacuum-sealed air-cooled head	Hermetically vacuum-sealed water-cooled head
Circulating water cooler (sold separately)		=	Required
Vacuum pump (sold separately)		-	-
Imaging device		S7170 Model 1 fulli-frame transfer CCD	
Effective no. of pixels		512 (H) 1 512 (V)	
Cell size		24 (H) 1 24 (V) 1 m	
Effective area		12.29 (H) 12.29 (V) mm	
Readout noise (High-precision scan mode)	Min. Typ.		ons r.m.s. ons r.m.s.
Full well capacity		230,000	electrons
Dynamic range (High-precision scan mode) Typ. Max.			
rame rate High-precision scan mode Fast scan mode		0.5 frames/sec (156 kHz/pixel)	
Cooling method		Peltier cooling / forced-air cooling + hermetic sealing	Peltier cooling / water cooling + hermetic sealing
Cooling temperature		-45°C to -55°C	-60°C to -70°C
CCD cooling control		Cooling ON/OFF control, cooling temperature setting function Front panel dial / software-controlled switching; Temperature displayed on front panel LCD	
Dark current		0.8 electrons/pixel/sec	0.3 electrons/pixel/sec
Exposure time		20 ms or more	
A/D converter		12 / 14 / 16 bits	
Lens mount		C-mount	
Mechanical shutter		Built-in (Control: OPEN / CLOSE / AUTO)	
Variable analog gain		Front panel dial / software-controlled switching, 1 - 6 times (high-speed scan)	
Variable offset		Front panel dial / software-controlled switching (fast scan)	
Amp gain		2 steps (fast scan), 3 steps (precision scan)	
Binning scan		Yes	
Sub-array scan		1/1, 1/2, 1/4, 1/8 (H) □ any desired number (V)	
Super-pixel scan		2 0 2, 4 0 4, 8 0 8	
External trigger input		Yes	
Output signal (digital output)		Parallel digital output (conforms to RS-422)	
External control		RS-232C	
Ambient storage temperature		-10 to +50 °C	
Ambient operating temperature		0 °C to +40 °C	
Ambient operating/storage humidity		70% max. (with no condensation)	
Line voltage		100 / 117 / 220 / 240 VAC, 50/60 Hz	
Power consumption		Approx. 220 VA	

I DIMENSIONAL OUTLINES

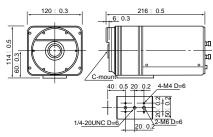
 Hermetic vacuum sealed air-cooled head (approx. 2.5 kg)



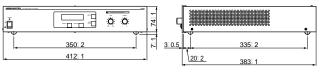
Camera controller (approx. 8.5 kg)



 Hermetic vacuum sealed water-cooled head (approx. 2.5kg)



Camera controller (approx. 8.5 kg)





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