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Find the *Hamamatsu C7300-51-12NRB* at our website: *Click HERE*

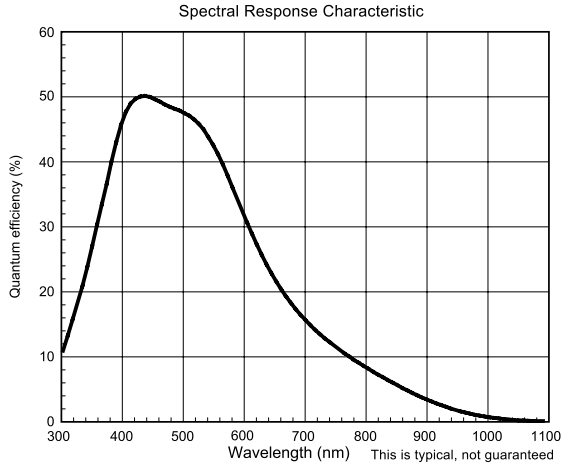
HAMAMATSU

DATA SHEET

High Performance Digital CCD Camera C7300



The C7300 realizes 13 Hz full resolution (1280 × 1024 pixels) readout from a 20 MHz pixel clock. It has the ability to readout up to 8 different randomly selected regions of interest (1280 × 16 pixels) at 250 Hz. The C7300 is well suited for applications requiring high speed imaging or critical applications requiring high resolution under low to moderate light level conditions.



FEATURES

- **MAX 250 Hz readout (1280 × 16)**
- **ROI readout function**
- **Random scan function**
- **2 × 2 binning**
- **1.3M pixels**
- **MAX 12 bit output**
- **UV option (down to 193 nm)**
- **60 nsec ultra fast imaging**
- **1/10,000 to 1 second integration**
- **15 electrons readout noise**

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SPECIFICATIONS

CCD	Progressive scan interline CCD
Effective pixels	1280 (H) × 1024 (V)
Pixel size	6.7 μm × 6.7 μm
Sensitive area	2/3 inch format
Spectral response characteristics	Standard : 240 nm to 1100 nm
	UV option : 193 nm to 1100 nm
Anti-blooming	Vertical overflow drain structure
Frame rate	13 Hz (Full pixel readout), 25 Hz (2 × 2 binning)
Read out noise	Typ. 15 electrons
Sub-array function (ROI)	Max 250 Hz (1280 × 16)
	16 line steps
Selectable ROI access function	Up to 8 selectable sub-arrays (ROI)
Dynamic range*	Typ. 60 dB
A/D resolution	8 bit / 10 bit / 12 bit
Integration time	1/10,000 to 1 second
Gated exposure (option)	2 image acquisitions
	with 60 ns or less intervals
Lens mount	C-mount

* Calculated from the ratio of the maximum saturation change and average readout noise.

TYPE NUMBER

C7300-10-□□ NR□

Bit number on A/D converter
08: 8 bit
10: 10bit
12: 12bit

No suffix: Standard
U: UV chip
P: PIV option
D: PIV option + UV chip

OPTION

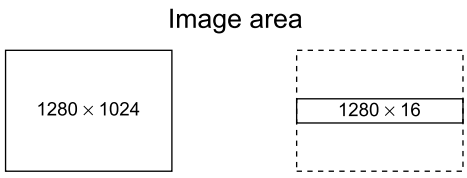
- **Gated exposure**

The C7300 can be set to acquire images with intervals as short as 60 ns at full resolution.

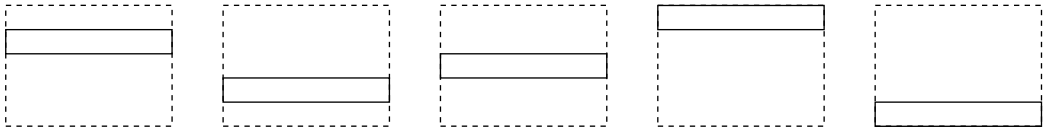
FEATURE DESCRIPTIONS

- **Selectable sub-array (ROI) function**

The C7300 can be set to readout sub-arrays of 1280 pixels by multiples of 16 lines by computer command.

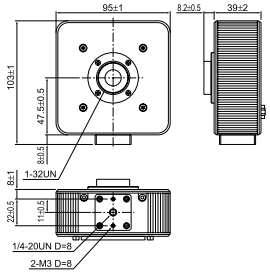


Up to 8 sub-arrays may be selected from frame to frame at maximum frame rate.

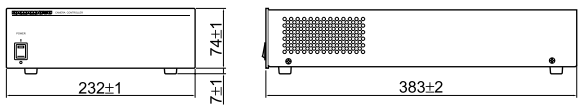


DIMENSIONAL OUTLINES (UNIT:mm)

- **Camera head (approx. 0.7 kg)**



- **Camera control (approx. 6.3 kg)**



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