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Find the *Hamamatsu C9300-201* at our website: ***Click HERE***

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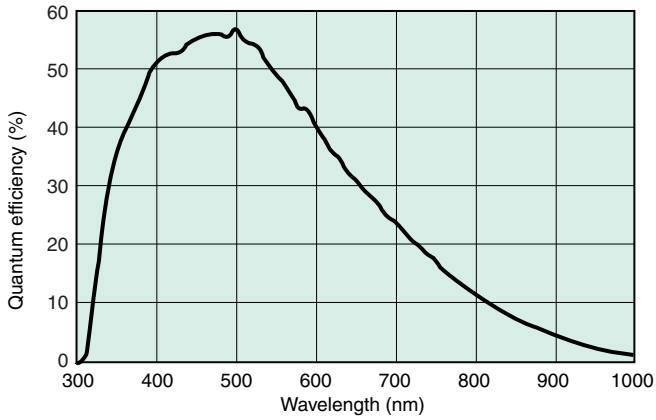
DATA SHEET

High frame rate Digital Camera C9300-201 (640 × 480)



The C9300-201 is the digital camera which realized improvement in the speed, having the low noise characteristics of the conventional digital CCD camera.
The high frame rate output which adopts progressive-scan interline CCD, and exceeds 5 times of TV rate in a VGA format (640 × 480 pixels) is possible.
Moreover, the further high-speed read-out is possible by using binning and sub-array function.

SPECTRAL RESPONSE CHARACTERISTIC



★ This is typical, not guaranteed

FEATURES

- **High-speed readout**
  150 frame/s (1 × 1 binning, dual readout)
  694 frame/s (8 × 8 binning, dual readout)
- **Low read-out noise**
  20 electrons
- **12 bit output**
- **Fast repetition readout mode for PIV**

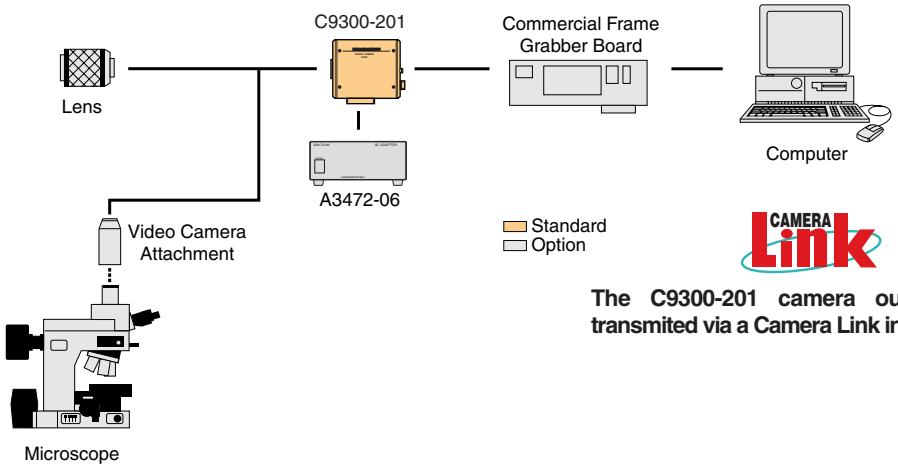
APPLICATIONS

- **Continuous imaging of high-speed moving objects**
- **Kinetic changes in light intensity**
- **Faint light observation under a microscope**

OPTIONS

- **AC adaptor : A3472-06**
  Line voltage: 100 V AC to 240 V AC input
  Output voltage: DC +12 V
- **Power cable : A3194-01**
  Cable type : 12 pin connector cable
  Cable length : 5 m

SYSTEM CONFIGURATION



The C9300-201 camera outputs data is transmited via a Camera Link interface.

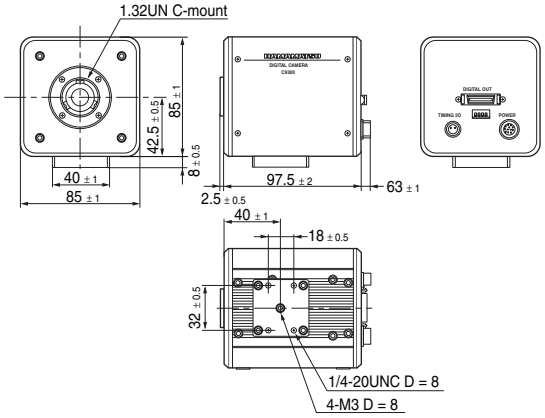
SPECIFICATIONS

Type number			C9300-201
Camera head type			Passive air-cooled head
Imaging device			Progressive interline transfer CCD
Effective no. of pixels			640 (H) × 480 (V)
Cell size			7.4 µm (H) × 7.4 µm (V)
Effective area			4.74 mm (H) × 3.55 mm (V)
Pixel clock rate			30 MHz/pixel
Frame rate**	1 × 1		Single readout : 82 frame/s, Dual readout : 150.6 frame/s
	binning	2 × 2	Single readout : 155.5 frame/s, Dual readout : 274.2 frame/s
		4 × 4	Single readout : 280.7 frame/s, Dual readout : 461.7 frame/s
		8 × 8	Single readout : 465.0 frame/s, Dual readout : 694.2 frame/s
Readout noise(r.m.s.) typ.			20 electrons
Full well capacity typ.			20 000 electrons
Dynamic range* typ.			1000 : 1
A/D converter			12 bit
Output signal / External control			Camera Link
Exposure time			33 µs to 1 s
Sub-array			A setup in an eight-line unit (vertical, perpendicular) is possible in size and a position.
External trigger			Yes
Contrast enhancement			1 to 5 times(16 step)
Lens mount			C-mount
Power requirements			DC +12 V
Power consumption			approx. 5 V·A
Ambient storage temperature			- 10 ˚C to + 50 ˚C
Ambient operating temperature			0 ˚C to + 40 ˚C
Ambient operating/storage humidity			70 % max. (with no condensation)

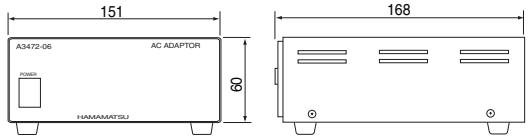
*Calculated from the ratio of the full well capacity and the readout noise

DIMENSIONAL OUTLINES (Unit: mm)

● C9300-201 (approx. 1.2 kg)



● A3472-06 (approx. 0.8 kg) - Optional -



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