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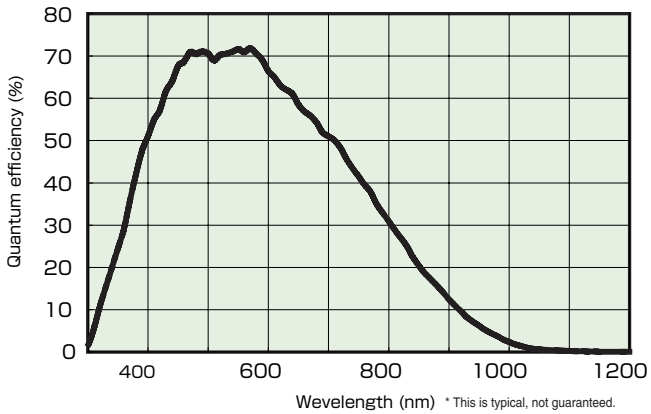
Digital CCD Camera
C8484-05 Series

For Machine Vision, Industrial Inspection and Biomedical Systems



The C8484-05 is a high-resolution digital camera using a progressive scan interline CCD with no mechanical shutter. In addition to a high resolution of 1.37 million pixels, a wide dynamic range of 12 bit digital output and high sensitivity in the VIS-NIR region offers a wide application range down to low light level imaging.

SPECTRAL RESPONSE



* This is typical, not guaranteed.

FEATURES

- High resolution of 1.37 million pixels
- High sensitivity in VIS-NIR region
- Progressive scan interline CCD with no mechanical shutter
- Anti-blooming function
- Wide dynamic range
- Small readout noise of 10 electrons
- High frame rate of 45 frame / s (8 × 8 binning)

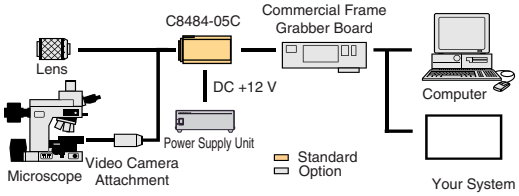
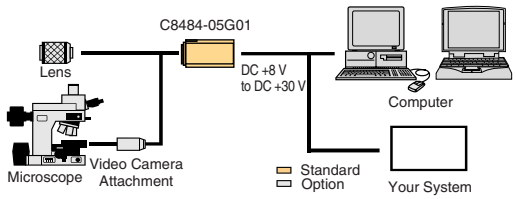
APPLICATIONS

- Machine vision
- Metallurgical microscopy
- Semiconductor inspection
- X-ray scintillator readout
- DNA chip reader
- High throughput screening reader
- Dual image acquisition (PIV) < 200 ns (C8484-05C only)

SOFTWARE

- Software Development Kit : DCAM-API

● Camera Link, and IEEE-1394 models are available.

Model (Type. No)	Digital output interface	System configuration
Camera Link (C8484-05C)	The C8484-05C camera outputs data is transmitted via a Camera Link interface. The camera transmits 12 bit digital output data. CAMERA Link	
IEEE1394 (C8484-05G01)	The C8484-05G01 camera outputs data is transmitted via an IEEE1394 interface. 1394 TRADE ASSOCIATION	

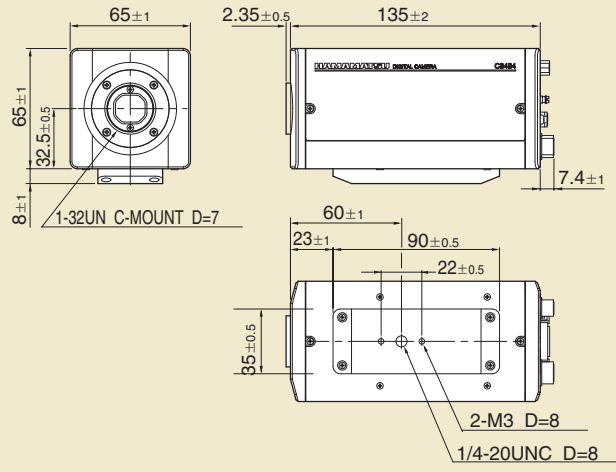
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SYSTEM SPECIFICATIONS

Type number			C8484-05C	C8484-05G01
Imaging device			Progressive scan interline CCD with micro-lens	
Effective number of pixels			1344 (H) × 1024 (V)	
Cell size			6.45 µm (H) × 6.45 µm (V)	
Effective area			8.67 mm (H) × 6.60 mm (V)	
Pixel clock rate			20 MHz/pixel	14.7 MHz/pixel
Frame rate	1 × 1		12.2 frame/s	8.9 frame/s
	binning	2 × 2	22.3 frame/s	16.3 frame/s
		4 × 4	40.9 frame/s	27.8 frame/s
		8 × 8	68 frame/s	43 frame/s
Readout noise (r.m.s.) (typ.)			10 electrons	
Full well capacity (typ.)			17 000 electrons	15 000 electrons
Dynamic range*			1700 : 1	1500 : 1
Dark current			-	
A/D converter			12 bit	
Exposure time			20 µs to 1 s	10 µs to 1 s
Sub-array			Yes	
Contrast enhancement			High gain/Low gain	
External trigger			Yes	
Lens mount			C-mount	
Digital output			Camera Link	IEEE1394-1995
External control			RS232C standard	IIDC 1394-Based Digital Camera Specification Ver.1.30
Power requirements			DC+12 V	DC+8 V to DC+30 V
Power consumption			Approx. 8 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)



(Weight:approx. 600g)

OPTIONS

Power supply unit : A3472-06

- Line voltage : AC 100 V to AC 240 V input
- Output voltage : DC +12 V
- Power cable : 12 pin connector cable
  - A3194-00 : 2 m
  - A3194-01 : 5 m
  - A3194-02 : 10 m
  - A3194-03 : 25 m

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Homepage Address http://www.hamamatsu.com

HAMAMATSU PHOTONICS K.K., Systems Division
812 Joko-cho, Hamamatsu City, 431-3196, Japan, Telephone: (81)53-431-0123, Fax: (81)53-433-8031, E-mail:sales2@sys.hpk.co.jp

U.S.A. and Canada: Hamamatsu Photonic Systems: 360 Foothill Road, Bridgewater, N.J. 08807-0910, U.S.A., Telephone: (1)908-231-1116, Fax: (1)908-231-0852, E-mail: usa@hamamatsu.com
Germany: Hamamatsu Photonics Deutschland GmbH: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (49)8152-375-0, Fax: (49)8152-2658, E-mail: info@hamamatsu.de
France: Hamamatsu Photonics France S.A.R.L.: 19, Rue du Saule Trapu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: (33)1 69 53 71 00, Fax: (33)1 69 53 71 10, E-mail: infos@hamamatsu.fr
United Kingdom: Hamamatsu Photonics UK Limited: 2 Howard Court, 10 Tewin Road, Welwyn Garden City, Hertfordshire, AL7 1BW, U.K., Telephone: (44) 1707-294888, Fax: (44) 1707-325777, E-mail: info@hamamatsu.co.uk
North Europe: Hamamatsu Photonics Norden AB: Smidesvägen 12, SE-171-41 Solna, Sweden, Telephone: (46)8-509-031-00, Fax: (46)8-509-031-01, E-mail: info@hamamatsu.se
Italy: Hamamatsu Photonics Italia S.R.L.: Strada della Moia, 1/E 20020 Arese (Milano), Italy, Telephone: (39)02-935 81 733, Fax: (39)02-935 81 741, E-mail: info@hamamatsu.it

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