

HAMAMATSU

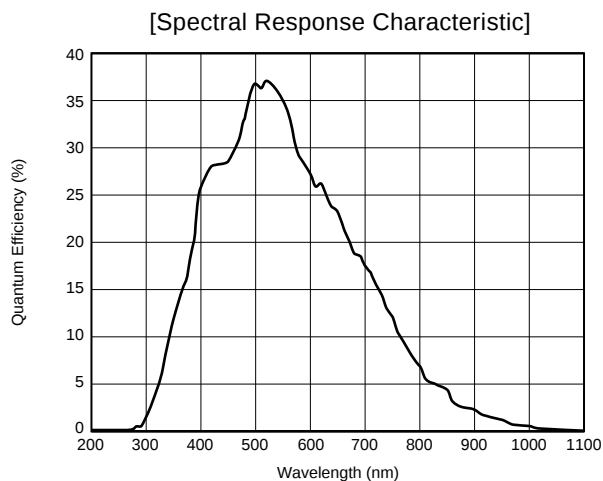
DATA SHEET

2/3-inch CCD Video Camera C3077-70/-71



▲ Shown with optional lens.

The C3077-70/-71 incorporates a next generation 2/3-inch CCD into a new compact B/W camera. Features of this model include high resolution, sensitivity, and S/N ratio. An electronic shutter function enables monitoring of moving objects.



FEATURES

- High Sensitivity

- High S/N Ratio

C3077-70 : 60 dB (EIA)

C3077-71 : 58 dB (CCIR)

- Small Readout Noise

- High Resolution

C3077-70 : 570 (H) × 485 (V) TV Line (EIA)

C3077-71 : 560 (H) × 575 (V) TV Line (CCIR)

- On-chip Integration

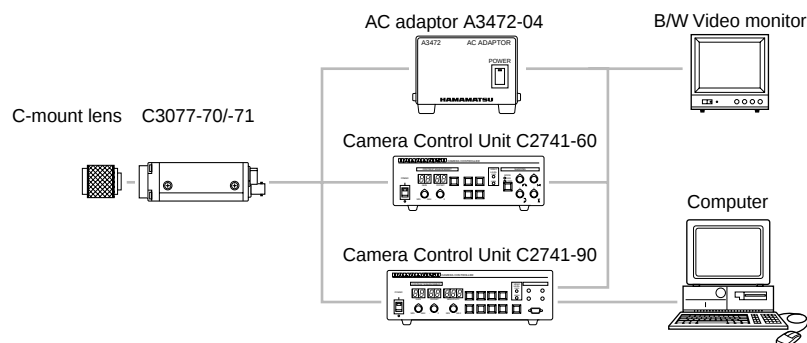
A dedicated camera control unit enables images to be accumulated on the CCD chip with improved sensitivity.

SPECIFICATIONS

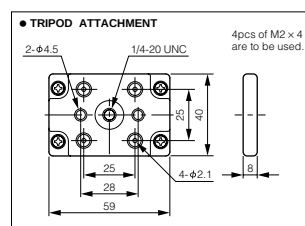
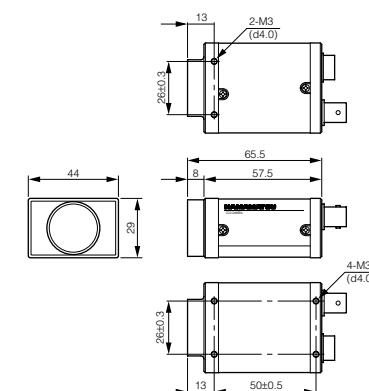
Type no.	C3077-70	C3077-71
Pickup device	2/3" Interline transfer CCD	
Scan type	Interrace scan	
Number of pixels (H) × (V)	768 × 494	752 × 582
Cell size (H × V) μm	11.6 × 13.5	11.6 × 11.2
Effective number of pixels	756 × 485	739 × 575
Resolution (H × V) TV lines	570 × 485	560 × 575
Lens mount (F,B)	C-mount (17.526 mm)	
Sync system	EIA	CCIR
Internal sync	Yes	
External sync	HD/VD	Yes
	SYNC	Yes
	R.R.	Yes
	Impedance	75 Ω (High)
AGC	ON / OFF / Fixed	
Gamma	1 / 0.45	
Camera output	Video (HD / VD)	
Minimum sensitivity	0.3 lux, F1.4, (AGC = ON, γ = OFF)	
Power requirements	DC 12 V (12P)	
Power consumption	2.1 W	
Typical sensitivity	400 lux, F16 (2856 K)	
S/N ratio	60 dB	58 dB
Electronic shutter	Flickerless, 1/125 to 1/10,000 sec.	
On-chip integration	Yes	

SYSTEM CONFIGURATION EXAMPLES

- The system can be configured to accommodate various applications, including image acquisition, image enhancement, image improvement, image measurement, and image filing.



DIMENSIONAL OUTLINES (UNIT: mm)



(Weight: Approx. 110g)

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- Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications and external appearance are subject to change without notice.

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Cat. No. SICS1070E02
SEP/2001 HPK
Created in Japan (PDF)