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HAMAMATSU

DATA SHEET

PHOTON COUNTING I-CCD VIDEO CAMERA C2400-32, -35



▲ Left: C2400-32, Right: C2400-35

The C2400-32, -35 cameras are designed specifically for imaging at ultra-low light levels. Each camera consists of an image intensifier including a 1 stage MCP and CCD camera coupled with a relay lens.

Single photon counting is possible due to superior performance as compared to conventional ICCD Cameras, for example:

1. Higher gain ..... about 10 times higher
2. Lower dark noise ..... about 1/10 lower : using bi-alkali photocathode

APPLICATION

The cameras can be used for luminescence and fluorescence applications in a macroscopic or microscopic imaging system set up.

- **Gene expression experiments**
- **Colony screening**
- **Detection of gels and blots**
- **Enzyme Immunoassay**
- **Phagocytosis**
- **DNA hybridization**

FEATURES

- **High spatial resolution**

  370 TV lines (Typical horizontal center resolution)

- **Low geometric distortion**

  Max 2% within inscribed circle

- **High sensitivity**

  Single photon counting is possible

- **Wide effective scanning area**

  Approx. 19.0 (H) mm × 14.2 (V) mm (C2400-32)

  Approx. 12.7 (H) mm × 9.5 (V) mm (C2400-35)

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SPECIFICATION

- **Configuration**

	Relay lens	CCD camera
C2400-32	A6110	C2400-75H
C2400-35	A2098	C2400-75H

- **Image Intensifier**

Photocathode	Bi-alkali
Wave length	360-650 [nm] / peak 430 [nm] (upon request 380-680[nm]/peak 500[nm])
Effective area of Photocathode	ϕ25mm

- **Relay Lens**

Number	A6110	A2098
Name of Relay Lens	3 : 1	2 : 1
Reduction Rate	3.09 : 1	2.00 : 1
F Number (front × rear)	3.09 × 1.01	2.46 × 1.23
Objective Distance [mm]	23.9	25.0
Shading [%]	25	20
Transmittence at 530nm [%]	88	88

- **CCD Camera**

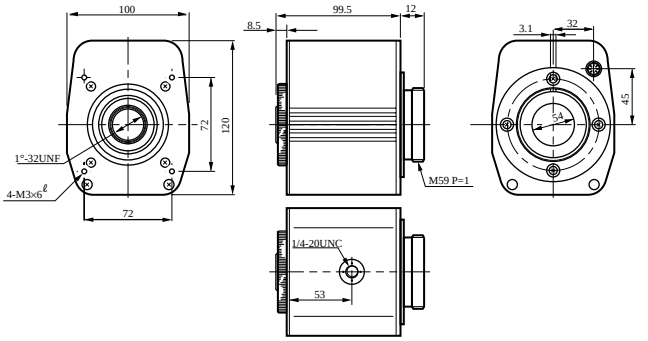
Model No.	C2400-75H	
SYNC Method	EIA (USA)	CCIR (Europe)
Pickup Device	1/2" Interline transfer CCD	
Number of pixels (H) × (V)	768 × 494	756 × 581
Cell Size (H × V) μm	8.4 × 9.8	8.6 × 8.3
Effective Number of Pixels	756 × 485	739 × 575
Resolution (H × V) TV lines	570 × 485	560 × 575
Sync System	525 lines 59.94Hz	625 lines 50Hz

- **Others**

Resolution	370 [TV lines]
Geometric Distortion	2 [%] / Max.
Shading	50 [%] / Typ.
Gamma	1.0 / Typ.
Lens Mount	C, F, Canon, Olympus and other
External Control	Possible (RS-232C)

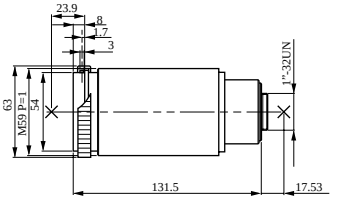
DIMENSIONAL OUTLINE (mm)

- **Image Intensifier**

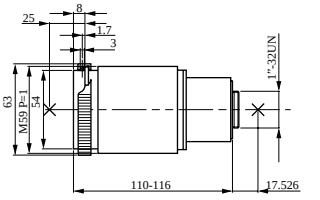


- **Relay Lens**

A6110

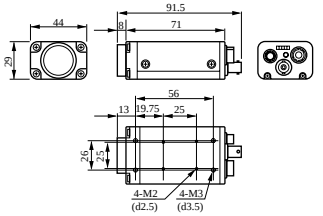


A2098



- **CCD Camera**

C2400-75H



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