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Find the *Hamamatsu C2741-03* at our website: ***Click HERE***

HAMAMATSU

Realtime Image Enhancement Systems

C 2741-60 and C 2741-90



C 2741-60



C 2741-90

The C7500 CCD camera with enhanced near infrared sensitivity can be used for scientific and industrial applications. Several of these applications require further processing of the images in realtime to have better contrast and to improve the signal to noise ratio. The C 2741-60 control unit offers analog image processing functions mainly for image contrast enhancement and the C 2741-90 offers analog and digital processing functions for enhancement and noise reduction.

Main Features

C 2741-60

- **Analog contrast enhancement**
- **Analog shading correction**
- **Analog gamma correction**

C 2741-90

- **Analog and digital contrast enhancement**
- **Averaging**
- **Background subtraction**
- **On-chip integration**
- **Zoom**
- **SCSI interface (optional)**

Applications

- **VEC-DIC microscopy in biology**
- **VEC-IR-DIC microscopy in neurobiology**
- **IR-transmission microscopy for semiconductor inspection**
- **X-ray image enhancement**

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Specifications

Feature	C 2741-60	C 2741-90
Input signal	a) Video signal CCIR standard, 1V p-p, 75Ohm b) CCD camera standard signal	
Power supply for CCD cameras	Included	
Analog image processing	Gain and Offset setting for contrast enhancement Shading correction Gamma correction Video signal inverter Automatic gain control	Gain and Offset setting for contrast enhancement Shading correction Gamma correction Automatic gain control
A/D-converter	-	10 bit
Digital image processing	-	Image Accumulation Image Averaging (noise reduction, 2 to 128 times,) On chip integration (increases the system sensitivity) Background subtraction Digital contrast enhancement Mask filtering Zoom (2x) Note: Most operations work in realtime (25 frames/s)
Operation	All functions are controlled by knobs and switches on the front panel of the unit	
Output signal	Video signal CCIR standard, 1V p-p, 75Ohm	
Interface	RS 232 (control of settings)	SCSI (optional), control and image transfer
Power supply	220-240 V, 50/60 Hz, 200 VA	
Operating temperature	0 to +40°C	

Configuration examples

System =	Camera	+ Control Unit	Remarks
C 7500-61	C 7500-11	C 2741-60	
C 7500-91	C 7500-21	C 2741-90	
C 2400-77	C 3077-01	C 2741-60	(C 7500-60 is identical to C 2400-60)
C 2400-75	C 5405-01	C 2741-60	

Specifications and external appearance are subject to change without notice.

HAMAMATSU

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