

Component / OEM



OUTLINE

Ideal for high speed image processing, the XC-HR50 is an ultra-compact monochrome C-mount camera featuring a 1/3 type progressive scan CCD. The XC-HR50 can capture high quality, full frame images at 60 frames/s. In addition, by reducing the number of transmitted lines (partial scan), partial images can be captured at an increased speed (up to 200 frames/s).

Also, the compact and lightweight body of the XC-HR50 makes it easy to install in space-restricted areas.

With high-speed imaging in a small body, the XC-HR50 is ideal for demanding applications such as semiconductor production, and high-speed assembly line inspection.

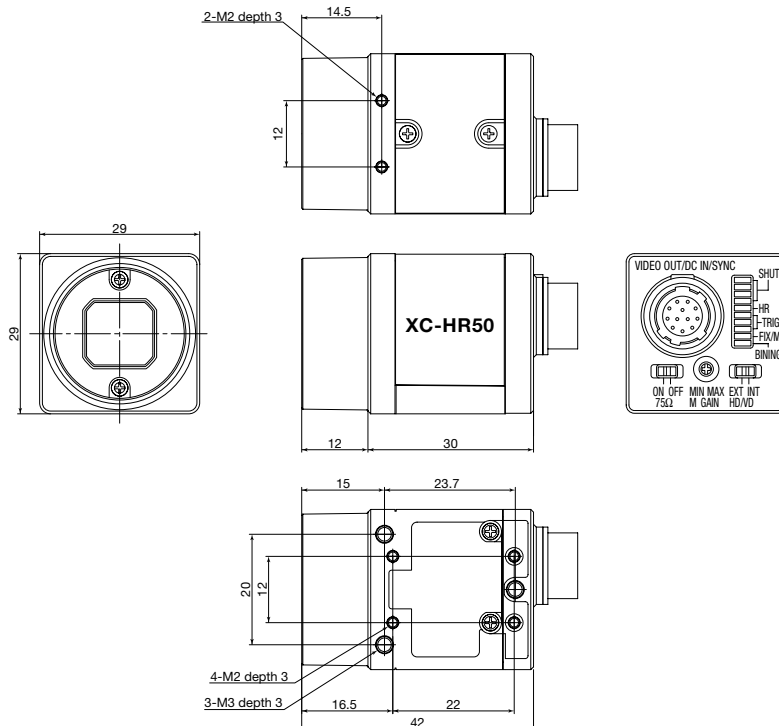
FEATURES

- Compact and light weight:
29 (W) x 29 (H) x 30 mm, 50 g
(1 3/16 x 1 3/16 x 1 3/16 inches, 1.8 oz)
- High frame rate
60 full frames/s progressive scanning; continuous or trigger
- High rate scanning for high vertical scanning frequency: Approx 200 frames/s
- Progressive scanning, square pixels
- Minimum illumination of 1 lux at F1.4
- High S/N ratio: 58 dB
- Electronic shutter function (Off to 1/30,000 s)
- External trigger shutter (1/4 to 1/100,000 s)

SPECIFICATIONS

XC-HR50	
Image device	1/3 type PS CCD
Effective picture elements	659 (H) x 494 (V)
Lens mount	C mount
Scanning system	60 Hz Non-interlaced
Sync system	Internal/External (automatic switching)
External sync signal	HD/VD (2 to 5 Vp-p)
Video output	1 Vp-p, Sync negative, 75 Ω unbalanced
Horizontal resolution	500 TV lines
Minimum illumination	1 lux (F1.4, Manual Gain MAX)
S/N ratio	58 dB
Shutter	Normal: OFF to 1/30,000 s with switches Restart/Reset Async External trigger, Non-reset, reset, switches or with trigger pulse width (1/100000 to 1/4 s)
Gain control	Fixed, Manual
Gamma	1 (Fixed)
Output connector	DC IN, SYNC, VIDEO: multi 12-pin
Power requirements	DC+12 V (+10.5 to 15 V)
Power consumption	1.8 W
Operating temperature	-5 to 45°C (23 to 113 °F)
Storage temperature	-30 to 60°C (-22 to 140 °F)
Operating humidity	20 to 80% (no condensation)
Storage humidity	20 to 95% (no condensation)
Vibration	10 G (20 Hz to 200 Hz)
Shock resistance	70 G
Dimensions	29 (H) x 29 (W) x 30 mm (1 3/16 x 1 3/16 x 1 3/16 inches)
Mass	50 g (1.8 oz)
Regulation	UL 6500 listed, FCC Class A Digital Device, CE (EN61326/97+A1/98), AS4251.1+AS4252.1
Supplied accessories	Lens mount cap (1), Operating instructions (1)

DIMENSIONS



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