

## 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.

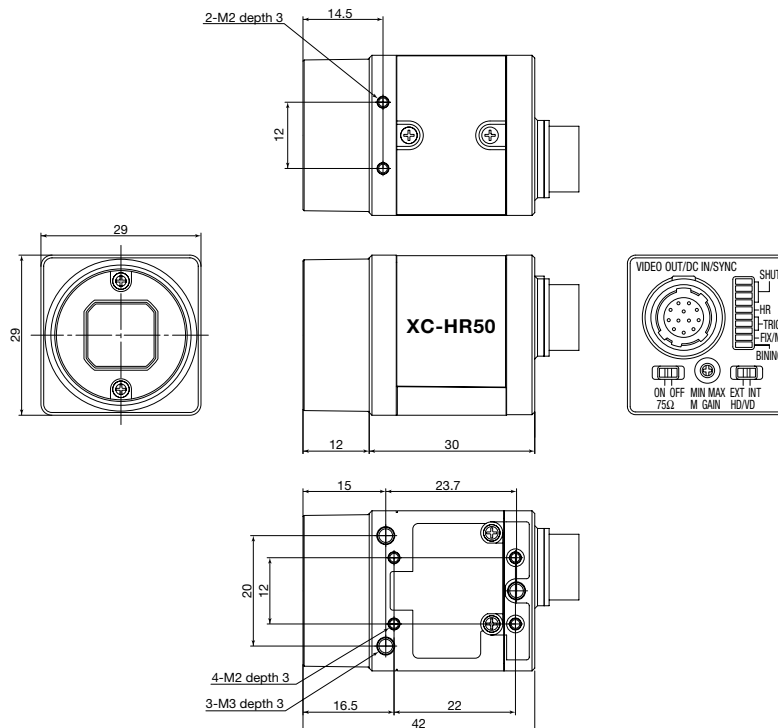
### FEATURES

- 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

| <b>XC-HR50</b>             |  |
|----------------------------|--|
| 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<br>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)  |
| Weight                     | 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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