

B/W VIDEO CAMERA MODULE

The **XC-ES50/CE** and **XC-ES30/CE** are compact, light-weight one-piece black and white camera modules incorporating the latest 1/2" and 1/3" Interline (IT) CCDs which produces new levels of picture detail. With dimensions of 29 (W) x 29 (H) x 32 (D) mm, these units can easily be installed in places where installation was previously difficult for other larger cameras.

Similar to the **XC-ES50/ES30** cameras, the **XC-EI50/CE** and **XC-EI30/CE** cameras also have near-infrared sensitivity. When used with an IR LED illuminator, these cameras can capture clear images in very low light environments. All four models have identical dimensions and controls, making it easy to interchange them. A variety of settings are available for differing subject and lighting conditions.

All camera control switches are accessible from the outside of the camera. Excellent shock and vibration characteristics together with outstanding MTBF make these cameras ideal for demanding machine vision applications.



XC-E Series

Component/OEM



FEATURES

- XC-ES50/CE and XC-EI50/CE: 1/2" IT CCD
- XC-ES30/CE and XC-EI30/CE: 1/3" IT CCD
- Small and lightweight: 29 (W) x 29 (H) x 32 (D) mm, 50g
- Infrared capability (XC-EI50/CE, XC-EI30/CE)
- Sensitivity at F1.4
0.3 lx (XC-ES50/CE, XC-ES30/CE)
0.1 lx (XC-EI50/CE)
0.2 lx (XC-EI30/CE)
- High S/N Ratio: 60 dB
- Flexible trigger shutter functions
- 2:1 interlace/non-interlace
- Frame/field exposure
- Restart/Reset function
- Synchronization: internal/external (HD/VD, VS)
- High shock and vibration tolerance
- Impressive 125 000 hours MTBF

ACCESSORIES

DC-700CE Compact camera adaptor

- Compact, lightweight (700 g)
- Two video outputs
- External sync IN/OUT
- Trigger input/WEN output
- New EIAJ standard 12 pin assignment
- Dimensions: 110 (W) x 53 (H) x 160 (D) mm



CCXC-12P02N (2 m) 12 pin camera cable (CE standard)

- CCXC-12P05N (5 m)
- CCXC-12P10N (10 m)
- CCXC-12P25N (25 m)



VCT-333I Tripod adaptor

- Isolated type
- Approx. 6.1 g
- Dimensions: 18 (W) x 6 (H) x 27 (D) mm

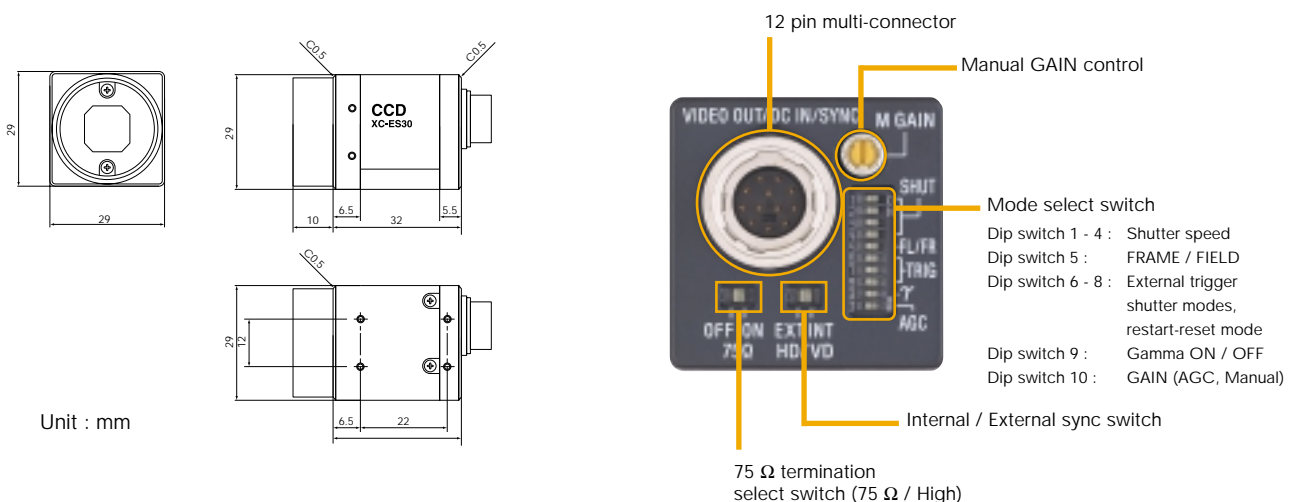


SPECIFICATIONS

| | XC-ES50 | | XC-ES50CE | | XC-ES30 | | XC-ES30CE | | XC-EI50 | | XC-EI50CE | | XC-EI30 | | XC-EI30CE | |
|----------------------------------|---|--|--------------------|--|--------------------|--|--------------------|--|--------------------|--|--------------------|--|--------------------|--|--------------------|--|
| Image device | 1/2" IT CCD | | | | 1/3" IT CCD | | | | 1/2" IT CCD | | | | 1/3" IT CCD | | | |
| Effective picture elements | 768 (H) x 494 (V) | | 752 (H) x 582 (V) | | 768 (H) x 494 (V) | | 752 (H) x 582 (V) | | 768 (H) x 494 (V) | | 752 (H) x 582 (V) | | 768 (H) x 494 (V) | | 752 (H) x 582 (V) | |
| Signal system | EIA (standard) | | CCIR (standard) | | EIA (standard) | | CCIR (standard) | | EIA (standard) | | CCIR (standard) | | EIA (standard) | | CCIR (standard) | |
| Horizontal frequency | 15.734 kHz | | 15.652 kHz | | 15.734 kHz | | 15.652 kHz | | 15.734 kHz | | 15.652 kHz | | 15.734 kHz | | 15.652 kHz | |
| Vertical frequency | 59.94 Hz | | 50 Hz | | 59.94 Hz | | 50 Hz | | 59.94 Hz | | 50 Hz | | 59.94 Hz | | 50 Hz | |
| Cell size | 8.4 x 9.8 µm | | 8.6 x 8.3 µm | | 6.35 x 7.4 µm | | 6.5 x 6.25 µm | | 8.4 x 9.8 µm | | 8.6 x 8.3 µm | | 6.35 x 7.4 µm | | 6.5 x 6.25 µm | |
| Lens mount | C mount | | | | | | | | | | | | | | | |
| Flange back | 17.526 mm | | | | | | | | | | | | | | | |
| Sync system | Internal / External (auto) | | | | | | | | | | | | | | | |
| External Sync system | HD / VD (2 - 5 Vp-p), VS | | | | | | | | | | | | | | | |
| External Sync frequency | ± 1% | | | | | | | | | | | | | | | |
| Jitter | less than ± 50 nsec | | | | | | | | | | | | | | | |
| Scanning system | 2:1 Interlaced | | | | | | | | | | | | | | | |
| Video output | 1.0 Vp-p, negative, 75 Ω unbalanced | | | | | | | | | | | | | | | |
| Horizontal resolution | 570 TV lines | | 560 TV lines | | 570 TV lines | | 560 TV lines | | 570 TV lines | | 560 TV lines | | 570 TV lines | | 560 TV lines | |
| Minimum illumination* | 0.3 lx | | | | 0.3 lx | | | | 0.1 lx | | | | 0.2 lx | | | |
| S/N ratio | 60 dB | | | | | | | | | | | | | | | |
| Gain | AGC (0-18 dB) / Manual (0-18 dB) Selectable | | | | | | | | | | | | | | | |
| Gamma | ON / OFF | | | | | | | | | | | | | | | |
| Normal shutter | 1/100 ~ 1/10,000 s | | 1/120 ~ 1/10,000 s | | 1/100 ~ 1/10,000 s | | 1/120 ~ 1/10,000 s | | 1/100 ~ 1/10,000 s | | 1/120 ~ 1/10,000 s | | 1/100 ~ 1/10,000 s | | 1/120 ~ 1/10,000 s | |
| External trigger shutter** | 1/4 ~ 1/10,000 s | | 1/4 ~ 1/8,000 s | | 1/4 ~ 1/10,000 s | | 1/4 ~ 1/8,000 s | | 1/4 ~ 1/10,000 s | | 1/4 ~ 1/8,000 s | | 1/4 ~ 1/10,000 s | | 1/4 ~ 1/8,000 s | |
| Power requirements | DC12 V (+9 ~ 16 V) | | | | | | | | | | | | | | | |
| Power consumption | 1.6 W | | | | 1.4 W | | | | 1.6 W | | | | 1.4 W | | | |
| Dimensions | 29 (W) x 29 (H) x 32 (D) mm (1 3/16 x 1 3/16 x 1 5/16 inches) | | | | | | | | | | | | | | | |
| Mass | 50 g (2 oz) | | | | | | | | | | | | | | | |
| Operation temperature / Humidity | -10 ~ +50 °C / 20 ~ 80% | | | | | | | | | | | | | | | |
| Storage temperature / Humidity | -20 ~ +60 °C / 20 ~ 95% | | | | | | | | | | | | | | | |
| Vibration | 10 G (20 ~ 200 Hz) | | | | | | | | | | | | | | | |
| Shock resistance | 70 G | | | | | | | | | | | | | | | |
| MTBF | 125 000 hours | | | | | | | | | | | | | | | |
| Regulations | UL1492, FCC Class A Digital Device, CE (EN50081-2 + EN50082-2), AS4251.1 + AS4252.2 | | | | | | | | | | | | | | | |
| Supplied accessories | Lens mount cap (x1), Operating instructions (x1) | | | | | | | | | | | | | | | |

* (F1.4, AGC ON, without IR cut filter) ** Using DIP switch on the rear panel or using trigger pulse width

DIMENSIONS & REAR PANEL



Product information is available on the ISP Home Page

Click!

<http://www.sony.co.jp/ISP/>

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