

Features

- 1/2" EXview HAD CCD* Imager
- High sensitivity @ 945 nm
768 x 494 (EIA); 752 x 582 (CCIR)
- Asynchronous capture
- Shutter Speed (1/60-1/31,000)
- 56 dB (AGC Off)
- Compact Size and lightweight
- AGC/MGC selectable
- Gamma 1.0/0.45 selectable
- Frame/Field mode selectable
- Long term frame integration



Description

UM-300/UM-301 series is a near infrared (NIR) CCD camera. This camera is four times more sensitive than the conventional CCD camera at 945 nm wavelength. Smear is significantly reduced and dynamic range is much greater than the current CCD cameras.

Asynchronous Capture – Allows the image to be captured at very high shutter speed without smearing. Providing an external random reset (5V TTL) trigger to the 12-pin connector on the rear plate will reset and capture image.

Easy access - The rotary switch located on the rear plate can easily change various shutter speeds for asynchronous reset applications. The asynchronous reset input pinout is located on 12-pin connector. AGC/MGC, Gamma 1.0/0.45, and Frame/Field mode selections are also available on the rear plate.

Applications

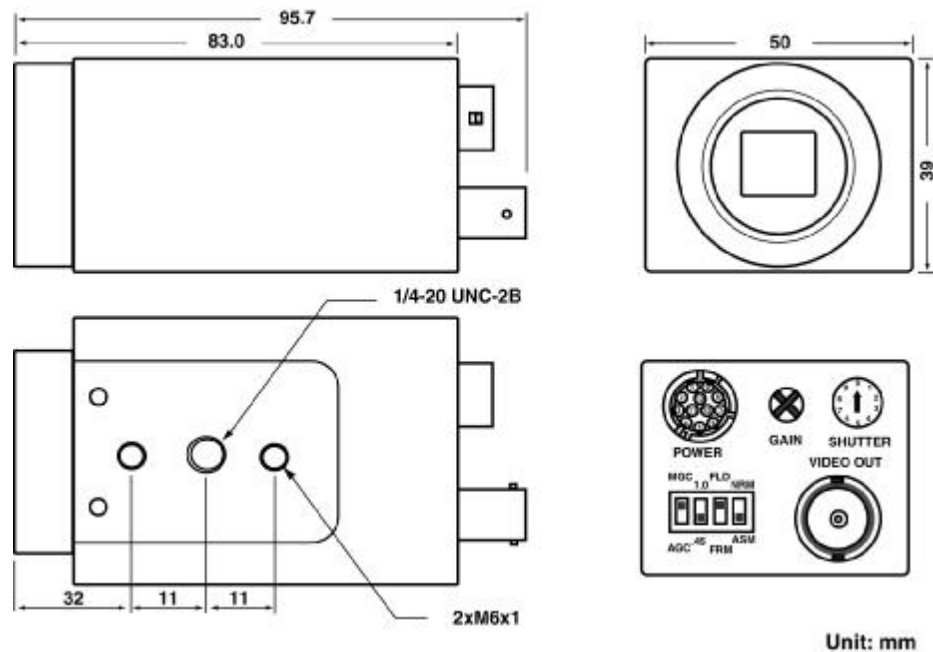
UM-300/UM-301 applications include night surveillance, car-mounted, and others where near infrared and high sensitivity is required.

* EXview HAD CCD is a registered trademark of Sony Corporation.

Specifications:

| Model | UM-300 (EIA) | UM-301 (CCIR) |
|--------------------------|--|--|
| CCD Sensor | 1/2" Interline-Transfer EXview HAD CCD | |
| Chip Size | 6.4 mm x 4.8 mm | |
| Effective Pixels (H x V) | 768 x 494 | 752 x 582 |
| Unit Cell Size (H x V) | 8.4 μm x 9.8 μm | 8.6 μm x 8.3 μm |
| Scanning | 525 TV lines, 2:1 Interlaced or Non-interlaced | 625 TV lines; 2:1 Interlaced or Non-interlaced |
| Synchronization | HD: 15.734KHz; VD: 59.94.0Hz | HD: 15.625KHz; VD: 50Hz |
| TV Resolution | H: 570 TV Lines; V: 375 TV Lines | H: 560 TV Lines; V: 450 TV Lines |
| S/N Ratio | 56dB (AGC OFF, Gamma 1.0) | |
| Min. Illumination | 0.03 lux | |
| Video Output | 1 V p-p, 75ohm (BNC or 12 pin Hirose) | |
| AGC | AGC/MGC selectable | |
| Gamma | Gamma 0.45/1.0 selectable | |
| Frame Mode | Frame/Field Mode selectable | |
| Electronic Shutter | 1/60 ~ 1/31,000 selectable | |
| Lens Mount | C-Mount | |
| Operating Temperature | -10 °C ~ +55 °C | |
| Power Requirement | 12V DC, 210mA, 2.5W | |
| Dimension | 50mm x 39mm x 83mm | |
| External Synchronization | Internal/External Auto Switch | |
| Asynchronous Capture | Standard | |
| Low Speed Shutter | 2 FLD ~ 16 FLD (Optional) | |
| Long Term Integration | 1/30 sec. ~ 2 sec. (user control) | |
| Weight | 155 g | |

Dimensions:



Note: Specifications are subject to change without notice