

## Features

- 1/2" EXview HAD CCD\* Imager
- 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

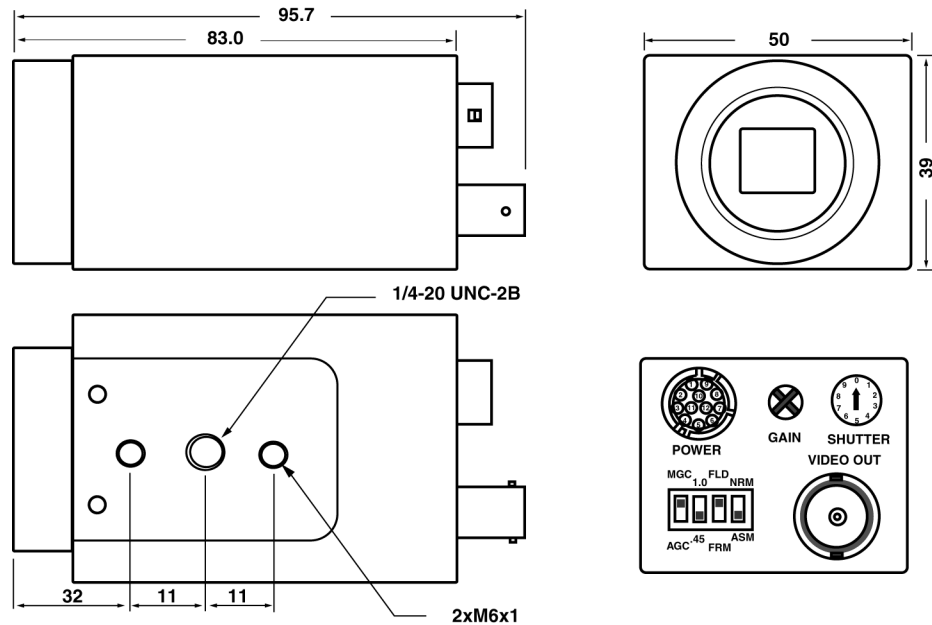
UM-300/UM-301 applications include night surveillance, car-mounted, and others where near infrared and high sensitivity is required.

\* Super HAD CCD is a registered trademark of Sony Corporation.

## Specifications:

Model	UM-300 (EIA)	UM-301 (CCIR)
CCD Sensor	½" 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 mm x 9.8 mm	8.6 mm x 8.3 mm
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)	

## Dimensions:



Unit: mm

**Note: Specifications are subject to change without notice**