

#### Features

- 0.0005 lux (AGC max.) min. illumination
- High sensitivity (high gain)
- 1/2" EXview HAD CCD\* Imager
- 768 x 494 (EIA); 752 x 582 (CCIR)
- Auto electronic shutter control (1/60 – 1/100000 sec.)
- 56 dB (AGC Off)
- Compact Size and lightweight
- AGC/MGC selectable
- Gamma 1.0/0.45 selectable
- Field mode only



#### Description

**Super sensitive** - The USS-300/USS-301 series is an automatic exposure control (electronic shutter) camera using near infrared (NIR) CCD imager. The 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 conventional CCD cameras.

The camera works very well between low light and sunlight conditions. The high gain circuitry provides clear video quality at low light condition. In a daylight condition, the camera will automatically convert the saturated incoming light source into a constant viewable video level with its auto electronic shutter control.

**Camera Interface** - USS-300/USS-301 is compatible with RS-170 (EIA) frame grabbers and TV monitors.

#### Applications

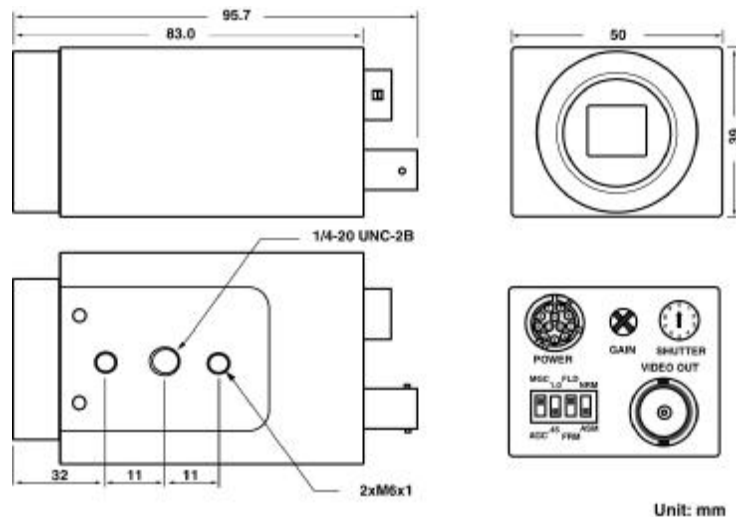
USS-300/UM-301 applications include low light, airborne, outdoor surveillance, vehicles and unmanned vehicles, and other applications where high gain and an auto iris function are needed without using an auto iris lens.

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

## Specifications:

Model	USS-300 (EIA)	USS-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 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	0.0005 lux (AGC max.), 0.01 lux (AGC off)	
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	Field mode only	
Electronic Shutter	1/60 ~ 1/100,000 auto electronic shutter control	
Lens Mount	C-Mount	
Operating Temperature	-10 °C ~ +55 °C	
Power Requirement	12V DC, 210mA, 2.5W	
Dimension	50mm x 39mm x 83mm	
Ext. Synchronization	Internal/External Auto Switch	
Asynchronous Capture	Standard	
Long Term Integration	1/30 sec. ~ 2 sec. (user control)	
Weight	155 g	

## Dimensions:



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