

#### Features

- 1/2" Super HAD CCD\* Imager
- High resolution  
768 x 494 (EIA); 752 x 582 (CCIR)
- Asynchronous capture
- High sensitivity with micro lens
- 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

**Asynchronous Capture** – UM-200/UM-201 family camera is very similar to UM100/UM101 family, except it has the asynchronous capture capability which 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 the image.

**Easy access** - The rotary switch located on 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.

**Camera Interface** – UM-200/UM-201 is compatible with all-standard RS-170 frame grabbers and TV monitors.

#### Applications

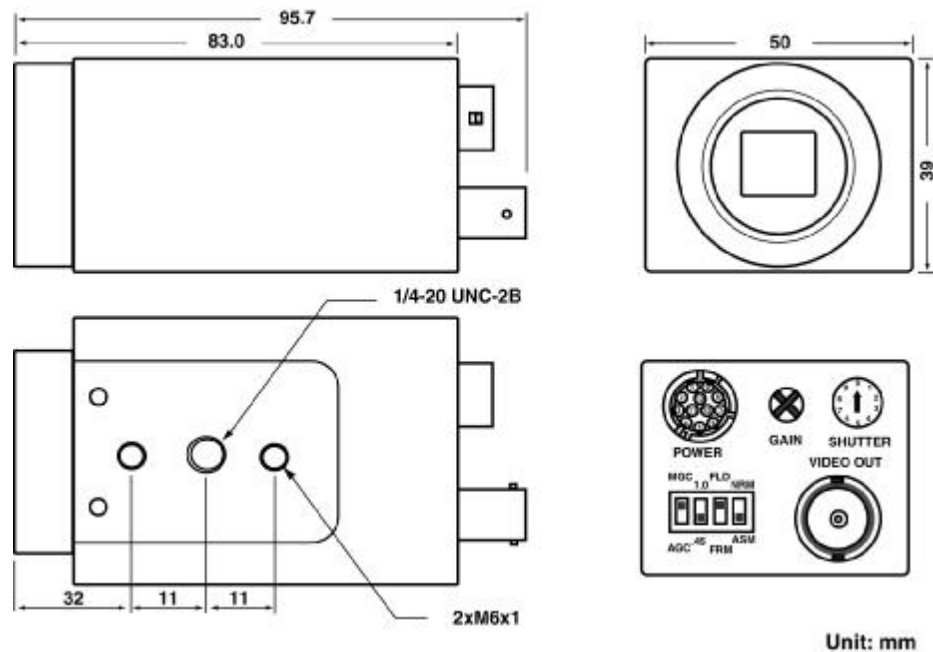
UM-200/UM-201 applications include machine vision, automated inspection, monitoring, bar code reading, biomedical imaging, non-contact measurement, microscopy, surveillance, and other scientific and industrial applications.

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

## Specifications:

Model	UM-200 (EIA)	UM-201 (CCIR)
CCD Sensor	1/2" Interline-Transfer Super 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	0.05 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**