

#### Features

- 1/2" Super HAD CCD\* Imager
- High resolution  
768 x 494 (EIA); 752 x 582 (CCIR)
- 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

**Low cost, high resolution** - The UM-100/UM-101 series is a low cost, high resolution, and standard EIA/CCIR CCD camera. With Super HAD, on-chip micro lens, and blemish free CCD imager, this camera provides excellent image quality.

**Easy access** - The rotary switch located on rear plate can easily change various shutter speeds. AGC/MGC, Gamma 1.0/0.45, and Frame/Field mode selections are also available on the rear plate. A 12 pin Hirose connector provides power, HD/VD signals, and video output for the camera.

**Camera Interface** - UM-100/UM-101 is compatible with all-standard RS-170 frame grabbers and TV monitors.

#### Applications

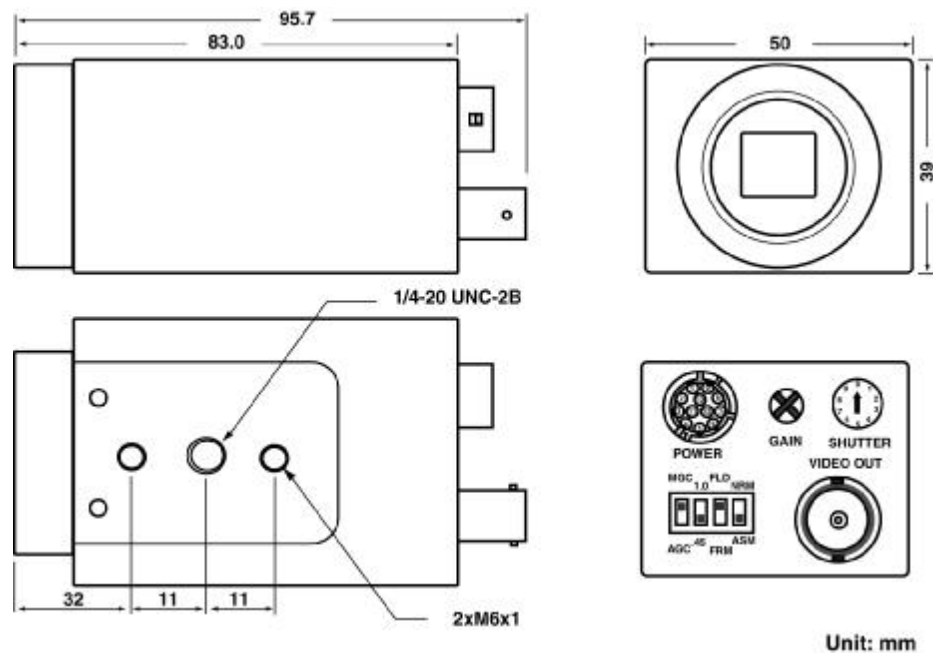
UM100 applications include machine vision, automated inspection, monitoring, bar code reading, biomedical imaging, non-contact measurement, microscopy, surveillance, and other scientific and industrial applications.

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

## Specifications:

Model	UM-100 (EIA)	UM-101 (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 40mm x 83mm	
External Synchronization	Internal/External Auto Switch	
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**