

#### Key Features

- 1/2" Progressive scan CCD imager
- 1392 x 1040 active pixels
- 10-bit RS-644 / Camera Link digital output
- Analog output
- RS232C interface control
- Full frame shutter
- <58 dB or better
- Asynchronous reset
- 15 Hz frame rate
- 25 MHz data clock
- C-mount lens
- Long-term frame integration
- External exposure control



#### Description

The UP-900/UP-900CL is a 10-bit digital CCD camera using progressive scan sensor. This compact and lightweight camera offers excellent signal to noise performance. It's compatible with most popular frame grabbers in the market. The "user-friendly" RS-232C interface control allows users to control all camera functions without physically touching the camera.

#### Applications

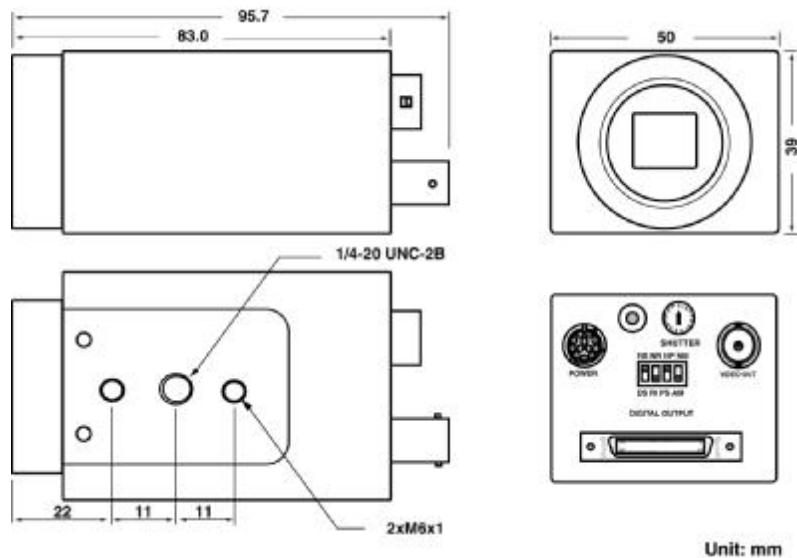
UP-900/UP-900CL applications include machine vision, automated inspection, motion capture and analysis, high-resolution graphics capture, medical imaging, biomedical imaging, non-contact measurement, microscopy, and other scientific and industrial applications.

## Specifications:

Model	UP-900	UP-900CL
CCD Sensor	1/2" Hyper HAD progressive scan interline-transfer CCD	
Chip Size	7.60 mm x 6.20 mm	
Effective Pixels (H x V)	1392 x 1040 (approx. 5:4 aspect ratio)	
Unit Cell Size (H x V)	4.65 $\mu\text{m}$ x 4.65 $\mu\text{m}$	
Pixel Clock	25 MHz (50 MHz for master clock)	
Frame Rate	15 fps	
Sync.	HD: 15.47KHz; VD: 14.82 Hz	
Digital Video Output	10-bit RS-644	Camera Link format
Analog Video Output	1 V p-p, 75ohm (BNC or 12 pin Hirose)	
S/N Ratio	<58 dB	
Min. Illumination	0.1 lux	
Gain	MGC	
Gamma	1.0	
Electronic Shutter	1/15 ~ 1/31,000 selectable	
Lens Mount	C-Mount	
Operating Temperature	-10 $^{\circ}\text{C}$ ~ +50 $^{\circ}\text{C}$	
Power Requirement	12V DC, 250mA, 3.0W	
Dimension	50mm x 39mm x 83mm	
Ext. Sync.	Internal/External Auto Switch	
Asynchronous Reset	Standard	
Weight	200 g	

Note: Custom cameras are available upon request.

## Dimension:



Note: Specifications are subject to change without notice