

#### Key Features

- 2/3" Exview HAD (NIR) CCD Imager
- 1380 x 1034 active pixels
- 30 Hz frame rate
- 2 x 2 (692 x 516) Binning at 55 FPS
- 10-bit RS-644 (LVDS) / Camera Link digital output
- Analog output
- Full frame shutter
- <58 dB
- Asynchronous reset
- 50 MHz pixel clock
- RS-232C interface Control
- C-mount lens



#### Description

The UP-1800DS/UP-1800DS-CL is a 10-bit digital CCD camera using progressive scan sensor. This compact and lightweight camera offers excellent signal to noise performance at a reasonable price. It's compatible with all camera link 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

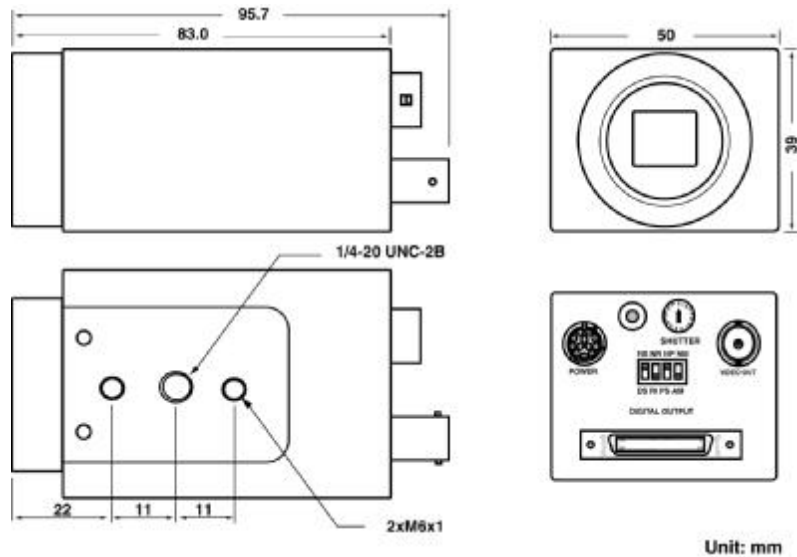
UP-1800DS/UP-1800DS-CL applications include machine vision, automated inspection, motion capture and analysis, high-resolution graphics capture, medical imaging, biomedical imaging, non-contact measurement, microscopy, and other scientific and industrial applications where near infrared (NIR) and high sensitivity is required.

## Specifications:

Model	UP-1800DS	UP-1800DS-CL
CCD Sensor	2/3" Exview HAD progressive scan interline-transfer CCD	
Chip Size	10.20 mm x 8.30 mm	
Effective Pixels (H x V)	1380 x 1034	
Unit Cell Size (H x V)	6.45 μm x 6.45 μm	
Pixel Clock	50 MHz	
Frame Rate	30 FPS (55 FPS for 2x2 binning)	
Sync.	HD: 31.367 KHz; VD: 30.0 Hz	
Digital Video Output	10-bit RS-644/LVDS	Camera Link format
Analog Video Output	1 V p-p, 75ohm (BNC or 12 pin Hirose)	
S/N Ratio	<58 dB	
Min. Illumination	0.02 lux	
Gain	MGC	
Gamma	1.0	
Electronic Shutter	1/30 ~ 1/62,000 selectable	
Lens Mount	C-Mount	
Operating Temperature	-10 °C ~ +55 °C	
Power Requirement	12 V DC, 470 mA, 5.6 W	12 V DC, 460 mA, 5.5 W
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