

#### Key Features

- 2/3" Exview HAD\* (NIR) CCD Imager
- 1024 x 1024 active pixels
- 30 Hz frame rate
- 2 x 2 (512x512) Binning at 50 FPS
- 10-bit RS-644 (LVDS) / Camera Link digital output
- Analog output
- Full frame shutter
- <58 dB
- Asynchronous reset
- 45 MHz data clock
- RS-232C interface Control
- C-mount lens



#### Description

The UP-1830/UP-1830CL 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

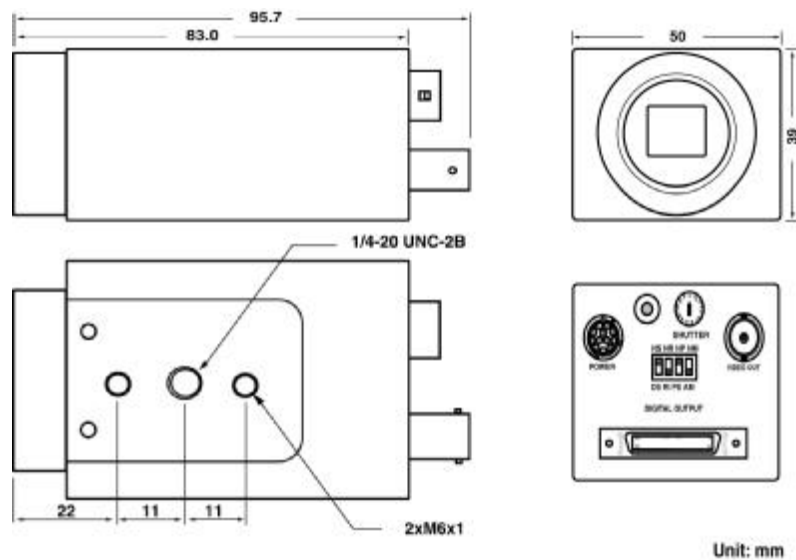
UP-1830/UP-1830CL applications include machine vision, automated inspection, motion capture and analysis, high-resolution graphics capture, medical imaging, biomedical imaging, non-contact measurement, microscopy, and other scientific and industrial applications where near infrared (NIR) and high sensitivity is required.

## Specifications:

Model	UP-1830	UP-1830CL
CCD Sensor	2/3" Exview HAD progressive scan interline-transfer CCD	
Chip Size	8.30 mm x 8.30 mm	
Effective Pixels (H x V)	1024 x 1024	
Unit Cell Size (H x V)	6.45 $\mu$ m x 6.45 $\mu$ m	
Pixel Clock	45 MHz (90 MHz for master clock)	
Frame Rate	30 fps (50 fps for 2 x 2 binning)	
Sync.	HD: 31.408 KHz; VD: 29.998 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	0.04 lux	
Gain	MGC	
Gamma	1.0	
Electronic Shutter	1/30 ~ 1/62,000 selectable	
Lens Mount	C-Mount	
Operating Temperature	-10 $^{\circ}$ C ~ +55 $^{\circ}$ C	
Power Requirement	12V DC, 380mA, 4.6W	
Dimension	50mm x 39mm x 83mm	
Ext. Sync.	Internal/External Auto Switch	
Async Reset	Standard	
Weight	200 g	

Note: Custom cameras are available upon request.

## Dimension:



Note: Specifications are subject to change without notice