

# UNI Q

## UP-1830-12B/UP-1830CL-12B

### B/W Digital CCD Camera

#### 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
- 12-bit RS-644 (LVDS) / Camera Link digital output
- Analog output
- Full frame shutter
- <64 dB
- Asynchronous reset
- 45 MHz data clock
- RS-232C interface Control
- C-mount lens



#### Description

The UP-1830-12B/UP-1830CL-12B is a 12-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 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. This high performance digital camera is ideally for high dynamic range, low noise applications.

#### Applications

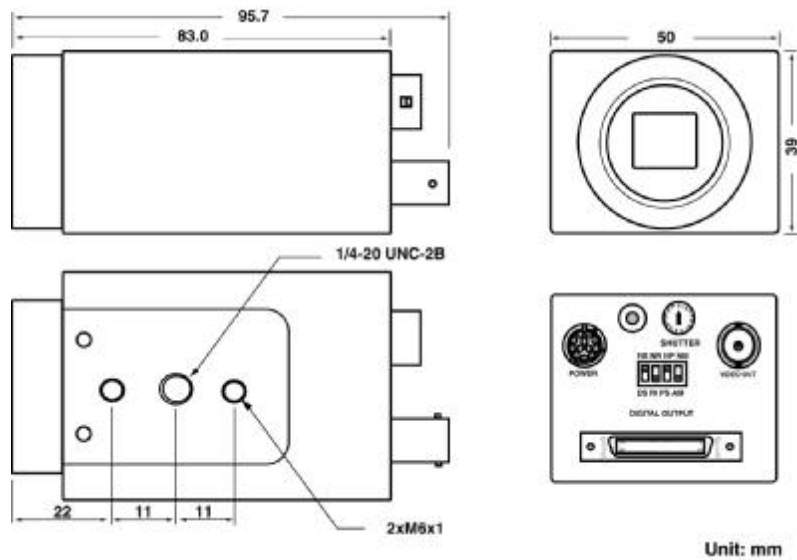
UP-1830-12B/UP-1830CL-12B applications include microscopy, machine vision, medical imaging, and spectroscopy where dynamic range is critical.

## Specifications:

Model	UP-1830-12B	UP-1830CL-12B
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	12-bit RS-644/LVDS	Camera Link format
Analog Video Output	1 V p-p, 75ohm (BNC or 12 pin Hirose)	
S/N Ratio	<64 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