

## Features

- 2/3" Exview HAD Scan CCD Imager (R, G, B color mosaic filters)
- 1024 x 1024 active pixels
- 30 Hz frame rate
- 10-bit Camera Link digital output
- Full frame shutter
- <56 dB
- Asynchronous reset
- 45 MHz pixel clock
- RS-232C interface Control
- C-mount lens



## Description

The UC-1830CL is a high resolution color digital CCD camera using progressive scanning interline-transfer technology with R, G, B primary color mosaic filters (Bayer arrangement). A frame grabber collects digital data and displays color images by software conversion. This color camera is useful for applications where color and high resolution are required. With the asynchronous capture control, high speed moving objects can always be captured. The square pixels are especially suitable for processing, measuring, and analyzing tasks. This compact and lightweight camera offers excellent signal to noise performance. It's compatible with most popular frame grabbers in the market.

## Applications

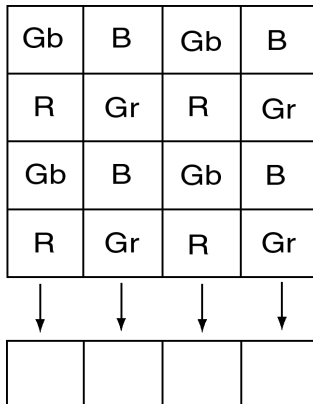
UC-1830CL applications include machine vision, automated inspection, motion capture and analysis, high-resolution graphics capture, medical imaging, biomedical imaging, non-contact measurement, microscopy, and other scientific applications where color image is needed.

## Specifications:

|                          |   |
|--------------------------|---|
| Model                    | UC-1830CL   |
| CCD Sensor               | 2/3" Exview HAD progressive scan interline-transfer CCD<br>(R, G, B primary color mosaic filters) |
| Effective Pixels (H x V) | 1024 x 1024   |
| Unit Cell Size (H x V)   | 6.45 mm x 6.45 mm   |
| Pixel Clock              | 45 MHz (90 MHz for master clock)  |
| Frame Rate               | 30 fps  |
| Sync.                    | HD: 31.408 KHz; VD: 29.998 Hz   |
| Digital Video Output     | Camera Link format  |
| Analog Video Output      | 1 V p-p, 75ohm (BNC or 12 pin Hirose)   |
| S/N Ratio                | <56 dB  |
| Min. Illumination        | 4 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        | 12V DC, 380mA, 4.6W   |
| Dimension                | 50mm x 39mm x 83mm  |
| Ext. Sync.               | Internal/External Auto Switch   |
| Async Reset              | Standard  |
| Weight                   | 200 g   |

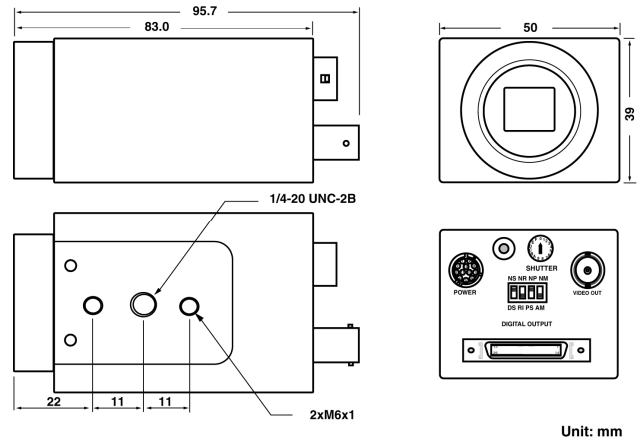
Note: Custom cameras are available upon request.

## Color Coding Diagram:



The bottom left pixel is the first signal output

## Dimension:



Note: Specifications are subject to change without notice