UNIQ
It simply works!

UC-1830CL
Color Digital CCD Camera

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.
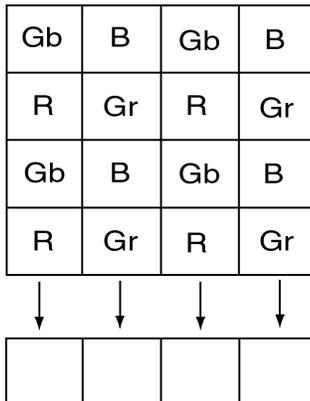
Applications

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:

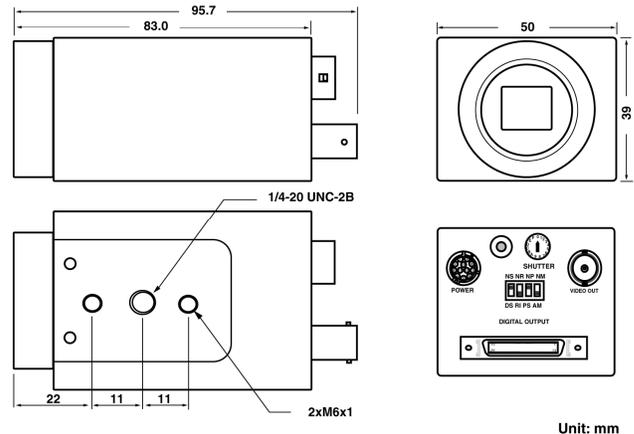| Model	UC-1830CL
CCD Sensor	2/3" Exview HAD progressive scan interline-transfer CCD (R, G, B primary color mosaic filters)
Effective Pixels (H x V)	1024 x 1024
Unit Cell Size (H x V)	6.45 ㎜ x 6.45 ㎜
Pixel Clock	45 MHz (90 MHz for master clock)
Frame Rate	30 fps
Sync.	HD: 31.408 KHz; VD: 29.998 Hz
Digital 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:

Gb	B	Gb	B
R	Gr	R	Gr
Gb	B	Gb	B
R	Gr	R	Gr

The bottom left pixel is the first signal output

Dimension:

95.7
83.0
1/4-20 UNC-2B
22 11 11
2xM6x1
50
39
SHUTTER
NS NR NP NM
POWER
DS RI PS AM
VIDEO OUT
DIGITAL OUTPUT

Unit: mm

Note: Specifications are subject to change without notice