

Key Features

- 1/2" Progressive scan CCD imager (R, G, B primary color filters)
- 1620 x 1236 active pixels
- 10-bit RS-644 (LVDS) or Camera Link output
- Full frame shutter
- <56 dB
- Asynchronous reset
- 16 Hz frame rate
- 40 MHz data clock
- RS232C interface control
- C-mount lens



Description

The UC-2000/UC-2000CL 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. The "user-friendly" RS-232C interface control allows users to control all camera functions without physically touching the camera.

Applications

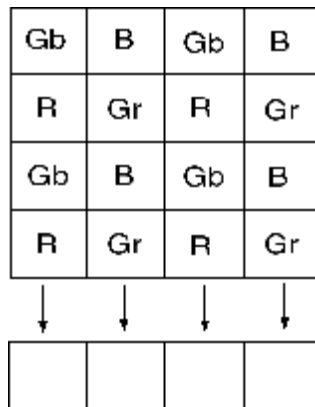
UC-2000/UC-2000CL applications include machine vision, automated inspection, motion capture and analysis, high-resolution graphics capture, medical imaging, biomedical imaging, non-contact measurement, microscopy, and other scientific applications where color image is needed.

Specifications:

Model	UC-2000	UC-2000CL
CCD Sensor	1/2" Progressive scan CCD (R, G, B primary color mosaic filters)	
Chip Size	8.50 mm x 6.80 mm	
Effective Pixels (H x V)	1620 x 1236	
Unit Cell Size (H x V)	4.40 μm x 4.40 μm	
Pixel Clock	40 MHz (80 MHz for master clock)	
Frame Rate	16 FPS	
Sync.	HD: 19.979 KHz; VD: 16.009 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	<56 dB	
Min. Illumination	0.5 lux	
Gain	MGC	
Gamma	1.0	
Electronic Shutter	1/16 ~ 1/40,000 selectable	
Lens Mount	C-Mount	
Operating Temperature	-10 °C ~ +55 °C	
Power Requirement	12V DC, 300mA, 3.6 W	
Dimension	50mm x 39mm x 83mm	
Ext. Sync.	Internal/External Auto Switch	
Asynchronous Reset	Standard	
Weight	200 g	

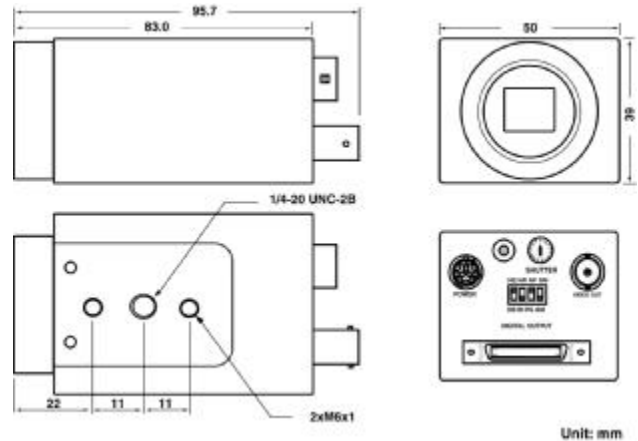
Note: Custom cameras are available upon request.

Color Coding Diagram:



The bottom left pixel is the first signal output

Dimension:



Note: Specifications are subject to change without notice