

Key Features

- 1/3" Progressive scan CCD imager (R, G, B primary color filters)
- 1024 x 776 active pixels
- 10-bit RS-644 (LVDS) or Camera Link output
- Full frame shutter
- <56 dB
- Asynchronous reset
- 45 Hz frame rate
- 40 MHz pixel clock
- RS232C interface control
- C-mount lens



Description

The UC-800/UC-800CL is a 1024 x 776 full frame resolution digital CCD camera using progressive scanning interline-transfer technology (with R, G, B primary color mosaic filters). The square pixels are especially suitable for processing, measuring, and analyzing tasks. High speed moving objects can easily be captured with the external asynchronous capture control. 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

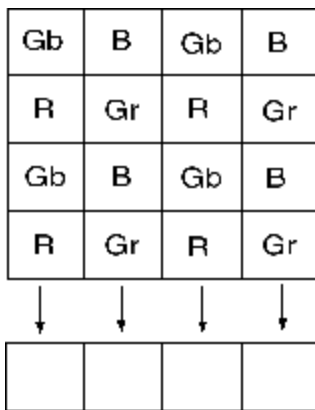
UC-800/UC-800CL applications include high-speed machine vision, automated inspection, motion capture and analysis, and other industrial applications.

Specifications:

Model	UC-800	UC-800CL
CCD Sensor	1/3" Hyper HAD progressive scan interline-transfer CCD	
Chip Size	5.80 mm x 4.92 mm	
Effective Pixels (H x V)	1024 x 776	
Unit Cell Size (H x V)	4.65 μm x 4.65 μm	
Pixel Clock	40 MHz (80 MHz for master clock)	
Frame Rate	45 FPS	
Sync.	HD: 35.33 KHz; VD: 45 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	0.3 lux	
Gain	MGC	
Gamma	1.0	
Electronic Shutter	1/45 ~ 1/71,000	
Lens Mount	C-Mount	
Operating Temperature	-10 °C ~ +55 °C	
Power Requirement	12V DC, 300 mA, 3.6 W	
Dimension	50mm x 39mm x 83mm	
Ext. Sync.	Internal/External Auto Switch	
Asynchronous Reset	Standard	
Weight	200 g	

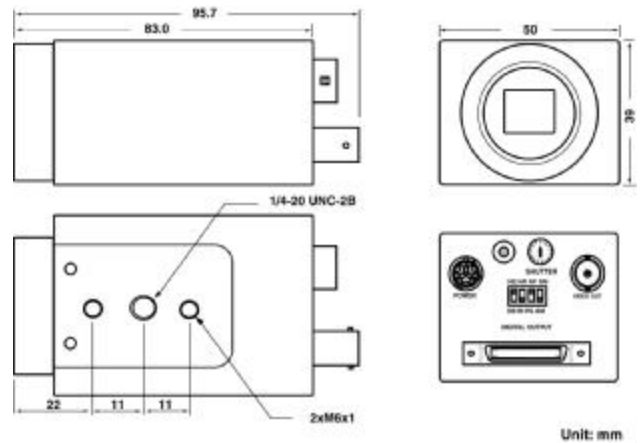
Note: Custom cameras are available upon request.

Color Coding Diagram:



The bottom left pixel is the first signal output

Dimension:



Note: Specifications are subject to change without notice