

Key Features

- 1/2" Progressive Scan CCD Imager
- 1620 x 1236 active pixels
- 16 Hz frame rate
- 2 x 2 (810 x 618) Binning at 32 FPS
- 10-bit LVDS / Camera Link digital output
- Analog output
- Full frame shutter
- <58 dB
- Asynchronous reset
- 40 MHz data clock
- RS232C interface control
- C-mount lens



Description

The UP-2000/UP-2000CL is a 10-bit, high-resolution digital CCD camera using progressive scan sensor. 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

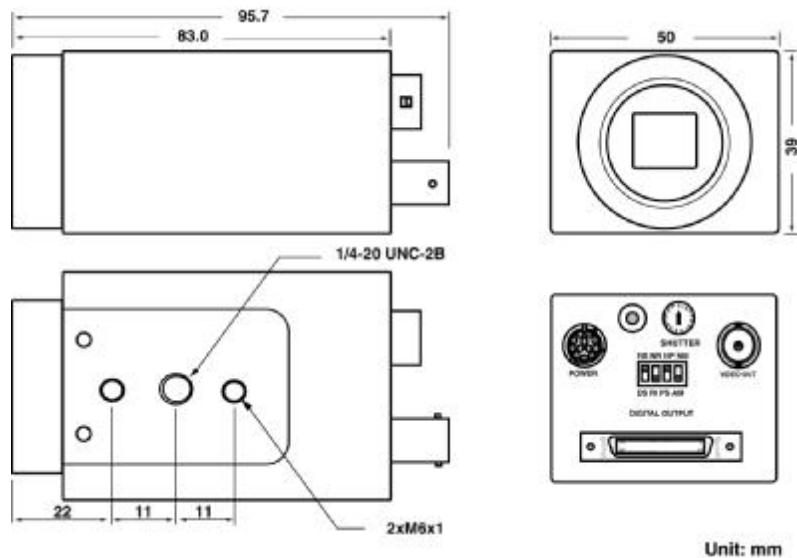
UP-2000/UP-2000CL applications include machine vision, automated inspection, motion capture and analysis, high-resolution graphics capture, medical imaging, biomedical imaging, microscopy, and other scientific and industrial applications where high resolution is required.

Specifications:

| Model | UP-2000 | UP-2000CL |
|--------------------------|---|--------------------|
| CCD Sensor | 1/2" Progressive scan interline-transfer CCD | |
| 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 (32 FPS for 2x2 binning) | |
| 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 | <58 dB | |
| Min. Illumination | 0.1 lux | |
| Gain | MGC | |
| Gamma | 1.0 | |
| Electronic Shutter | 1/16 ~ 1/40,000 selectable | |
| Lens Mount | C-Mount | |
| Operating Temperature | -10 $^{\circ}\text{C}$ ~ +55 $^{\circ}\text{C}$ | |
| 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.

Dimension:



Note: Specifications are subject to change without notice