

## Features

- 1/3" Progressive scan CCD imager (R, G, B color mosaic filters)
- 659 x 494 active pixels
- 10-bit Camera Link digital output
- Full frame shutter
- <56 dB
- Asynchronous reset
- 60 Hz frame rate
- 25 MHz pixel clock
- RS232C interface control
- C-mount lens



## Description

The UC-600CL is a high frame rate, 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, raw data and displays color images by software conversion. This color camera is useful for applications where color, high frame rate and high speed 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

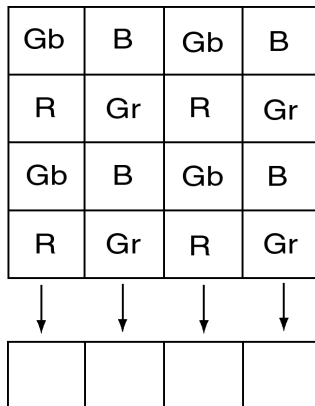
UC-600CL applications include machine vision, automated inspection, motion capture and analysis, medical imaging, biomedical imaging, non-contact measurement, and other scientific and industrial applications where color image and high frame rate are needed.

## Specifications:

<b>Model</b>	<b>UC-600CL</b>
<b>CCD Sensor</b>	1/3" Progressive scan interline-transfer CCD (R, G, B primary color mosaic filters)
<b>Chip Size</b>	5.79 mm x 4.89 mm
<b>Effective Pixels (H x V)</b>	659 x 494
<b>Unit Cell Size (H x V)</b>	7.4 mm x 7.4 mm
<b>Pixel Clock</b>	25 MHz (50 MHz for master clock)
<b>Frame Rate</b>	60 fps
<b>Sync.</b>	HD: 31.5 KHz; VD: 60.0 Hz
<b>Digital Video Output</b>	10-bit RS-644 (LVDS)
<b>Analog Video Output</b>	1 V p-p, 75ohm (BNC or 12 pin Hirose)
<b>S/N Ratio</b>	<56 dB
<b>Min. Illumination</b>	3 lux
<b>Gain</b>	MGC
<b>Gamma</b>	1.0
<b>Electronic Shutter</b>	1/60 ~ 1/62,000 selectable
<b>Lens Mount</b>	C-Mount
<b>Operating Temperature</b>	-10 °C ~ +50 °C
<b>Power Requirement</b>	12V DC, 250 mA, 3.0 W
<b>Dimension</b>	50mm x 39mm x 83mm
<b>Ext. Sync.</b>	Internal/External Auto Switch
<b>Asynchronous Reset</b>	Standard
<b>Weight</b>	200 g

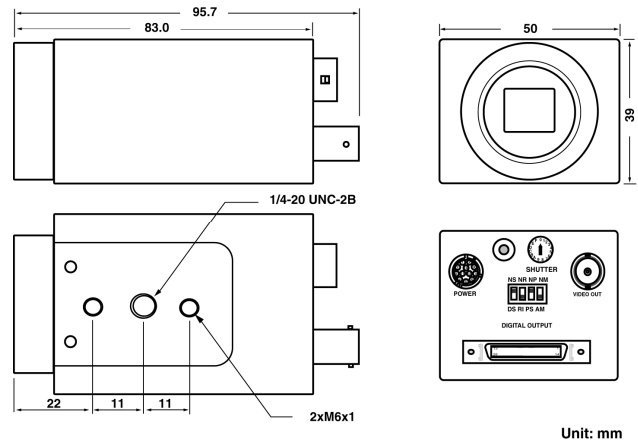
Note: Custom cameras are available upon request.

## Color Coding Diagram:



The bottom left pixel is the first signal output

## Dimension:



Note: Specifications are subject to change without notice