



Bonito CL-400

Camera^{Link}

Description

High Speed camera, 4 Megapixels with 386 fps, Camera Link

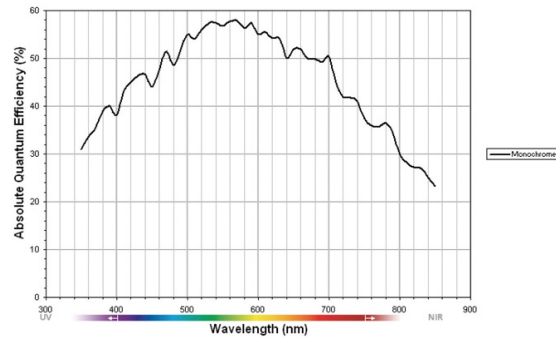
The Bonito CL-400B/C is a high speed camera with excellent image quality and a robust metal housing. It comes with a very sensitive CMOS sensor with global shutter. This high speed camera runs 386 fps at 4 Megapixel resolution. Considerably higher frame rates can be reached with a smaller ROI (region of interest).

- High speed camera, 386 fps at 2320 x 1726 pixels
- Global shutter CMOS sensor (excellent sensitivity due to microlenses)
- Robust and lightweight aluminum housing
- High data rates, 2 x 10-tap Camera Link Full+
- Very low power consumption, 4 W
- Options:
 - Available with C/F/EF-Mount

Specifications

Bonito	CL-400
Interface	2 x 10-tap Camera Link Full+
Resolution	2320 x 1726
Sensor	CMOS Sensor 4 MPixel
Sensor type	CMOS Progressive
Sensor size	Type 4/3
Cell size	7 µm x 7 µm
Lens mount	C/F/EF-Mount
Max frame rate at full resolution	386 fps
A/D	10 bit
	Output
Bit depth	8 bit
Mono modes	Mono8
	Operating conditions/Dimensions
Operating temperature	+5°C ... +45 °C
Power requirements (DC)	12 V
Power consumption (12 V)	4 W
Mass	390 g (C-Mount)
Body Dimensions (L x W x H in mm)	44.2 x 80 x 70 mm incl. connectors, w/o tripod and lens
Regulations	CE, RoHS (2002/95/EC)

[Download technical drawing \(click here\)](#)



Smart features

- ROI (Region of Interest)
- Fixed pattern noise (FPN) correction
- Digital Gain (selects 8 of 10 bits for output)
- Offset (brightness)
- Exposure time: 1.5 μ s, up to 1 s (recommended), > 1s also possible
- Two readout modes:
 - 386 fps with two 10-tap Camera Link outputs
 - 193 fps with one 10-tap Camera Link output
- Continuous mode (image acquisition with maximum frame rate)
- Image on Demand mode (triggered image acquisition)

Applications

The Bonito CL-400B/C high speed camera is the perfect choice for applications which require a very fast frame rate and excellent image quality. Its global shutter CMOS sensor is ideally suited for high-resolution motion capture. The camera transmits the images to the frame grabber in real-time. Another benefit is the robust, lightweight, and very compact housing.

Typical applications:

- Applications with high demands on image quality and very fast frame rates
- Motion capture with high resolution
- 3D recordings of still and moving objects
- Science and research
- Medical imaging
- High speed imaging in general