



# Bonito

## CL-400 200 fps

- Bonito CL-400 200 fps High Speed camera, 4 Megapixels with 193 fps, Camera Link



## Description

### High Speed camera, 4 Megapixels with 193 fps, Camera Link

The Bonito CL-400B/C 200 fps reaches 193 fps at full resolution. Allied Vision Technologies offers this slower Bonito version at a lower price than the fast version. It comes with the same CMOS global shutter sensor. Higher frame rates can be reached with a smaller ROI (region of interest).

Benefits and features:

- 193 fps at 2320 x 1726 pixels
- Global shutter CMOS sensor (excellent sensitivity due to microlenses)
- Robust and lightweight aluminum alloy housing
- High data rates, 1 x 10 tap Camera Link Full+ with 80 MHz
- Very low power consumption, <4.2 W

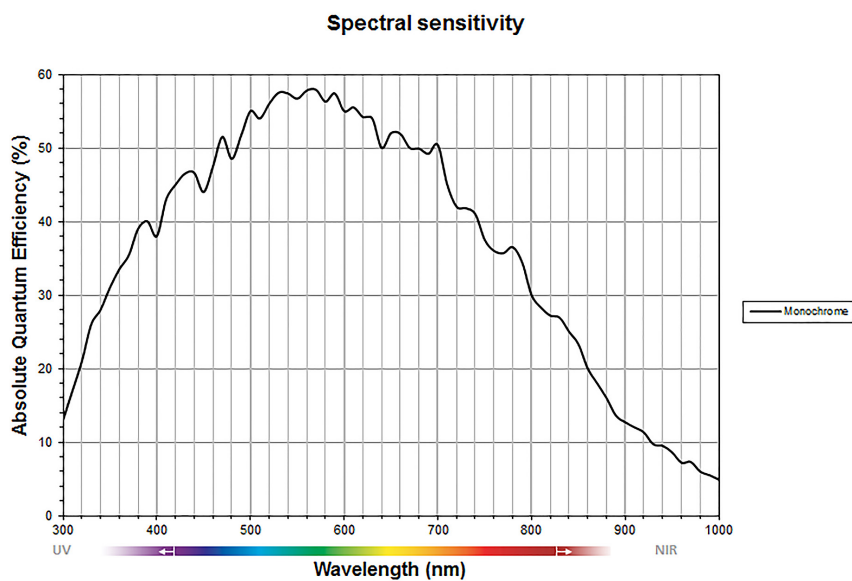
Options:

- Available with C- / F- / EF-Mount

## Specifications

Bonito	CL-400 200 fps
Interface	1 x 10-tap Camera Link Full+
Resolution	2320 (H) × 1726 (V)
Sensor	CMOS Sensor 4 MPixel
Sensor type	CMOS
Sensor size	Type 4/3
Pixel size	7 μm × 7 μm

<b>Bonito</b>	<b>CL-400 200 fps</b>
Lens mount (default)	C-Mount, EF-Mount, F-Mount
Max. frame rate at full resolution	193 fps
ADC	10 bit
Image buffer (RAM)	
<b>Output</b>	
Bit depth	8 bit
Monochrome pixel formats	Mono8
<b>General purpose inputs/outputs (GPIOs)</b>	
Opto-isolated I/Os	1 in, 1 out
<b>Operating conditions/dimensions</b>	
Operating temperature	0 °C to +45 °C
Power requirements (DC)	12 V
Power consumption	4.2 W @ 12 VDC
Mass	350 g (C-Mount)
Body dimensions (L × W × H in mm)	44.2 × 80 × 70 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)



## Features

- Region of interest (ROI)
- Fixed pattern noise (FPN) correction
- Digital gain (selects 8 of 10 bits for output)
- Offset (brightness)



- Exposure time: 3.0  $\mu\text{s}$ , up to 1 s (recommended), > 1s also possible
- Continuous mode (image acquisition with maximum frame rate)
- Image on demand mode (triggered image acquisition)



## Applications

The Bonito CL-400B/C 200 fps is a good choice for applications which require a fast frame rate and excellent image quality. Its global shutter CMOS sensor is ideally suited for high-resolution motion capture. Another benefit is the robust, lightweight, and very compact housing. The camera transmits the images to the frame grabber in real-time.

Typical applications:

- Applications with high demands on image quality and 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