



**Bonito  
CL-400  
200 fps**

Camera<sup>Link</sup>

## Description

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

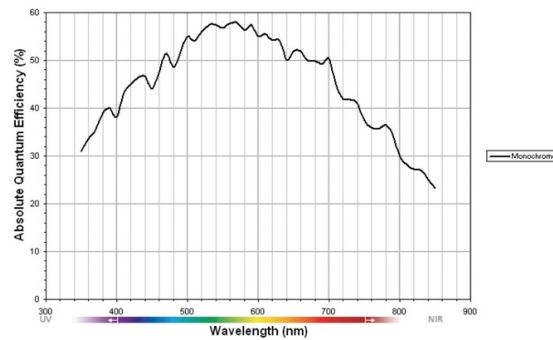
The Bonito CL-400B/C 200 fps reaches 193 fps at full resolution. Allied Vision Technologies offers this slower Bonito version at a lower price than the fast version. It comes with the same CMOS global shutter sensor. Higher frame rates can be reached with a smaller ROI (region of interest).

- 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 W
- Options:
  - Available with C/F/EF-Mount

## Specifications

| <b>Bonito</b>                            |  | <b>CL-400 200 fps</b>                                   |  |
|--|--|---|--|
| <b>Interface</b>                         |  | 1 x 10-tap Camera Link Full+                            |  |
| <b>Resolution</b>                        |  | 2320 x 1726   |  |
| <b>Sensor</b>                            |  | CMOS Sensor   |  |
| <b>Sensor type</b>                       |  | CMOS Progressive  |  |
| <b>Sensor size</b>                       |  | Type 4/3  |  |
| <b>Cell size</b>                         |  | 7 µm x 7 µm   |  |
| <b>Lens mount</b>                        |  | C/F/EF-Mount  |  |
| <b>Max frame rate at full resolution</b> |  | 193 fps   |  |
| <b>A/D</b>                               |  | 10 bit  |  |
|  |  | <b>Output</b>   |  |
| <b>Bit depth</b>                         |  | 8 bit   |  |
| <b>Mono modes</b>                        |  | Mono8   |  |
|  |  | <b>Operating conditions/Dimensions</b>                  |  |
| <b>Operating temperature</b>             |  | +5 °C ... +45 °C  |  |
| <b>Power requirements (DC)</b>           |  | 12 V  |  |
| <b>Power consumption (12 V)</b>          |  | 4 W   |  |
| <b>Mass</b>                              |  | 390 g (C-Mount)   |  |
| <b>Body Dimensions (L x W x H in mm)</b> |  | 44.2 x 80 x 70 mm incl. connectors, w/o tripod and lens |  |
| <b>Regulations</b>                       |  | 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  $\mu$ 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