



# 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

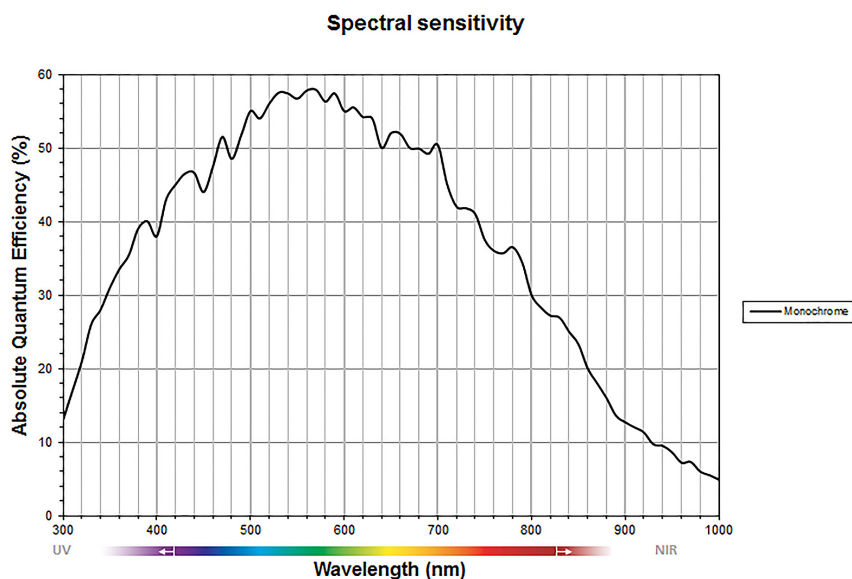
Options:

- 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