Allied Vision

Bonito
CL-400 200 fps

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 × 1726
Sensor	CMOS Sensor 4 MPixel
Sensor type	CMOS Progressive
Cell size	7 µm x 7 µm
Lens mount	C-Mount, EF-Mount, F-Mount

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Bonito	CL-400 200 fps
Max frame rate at full resolution	193 fps
ADC	10 bit
On-board FIFO	0 Mbyte
Output	
Bit depth	8 bit
Mono modes	Mono8
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	1 in, 1 out
Operating conditions/dimensions	
Operating temperature	0 °C … +45 °C
Power requirements (DC)	12 V
Power consumption (@12 V)	4.2 W
Mass	350 g (C-Mount)
Body dimensions (L × W × H in mm)	44.2 × 80 × 70 mm incl. connectors, w/o tripod and lens
Regulations	CE, RoHS (2011/65/EU), WEEE, FCC Class B

Spectral sensitivity
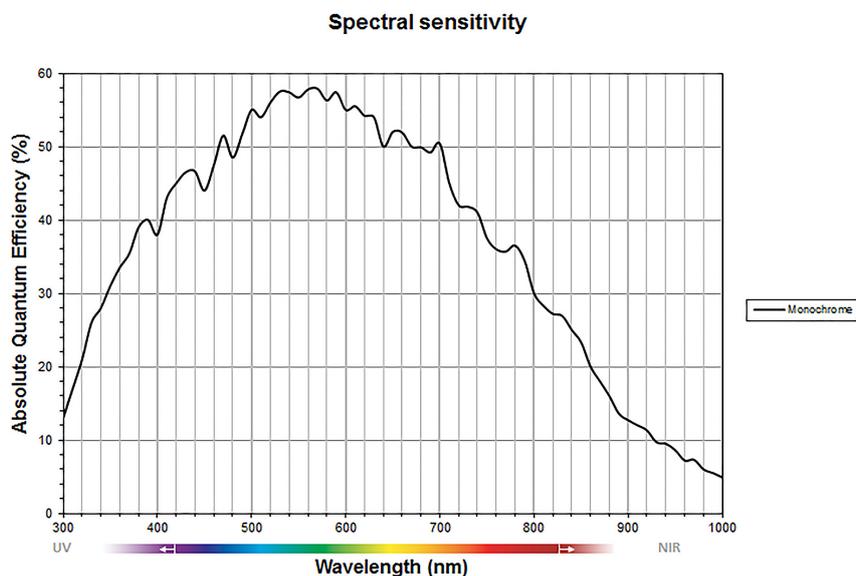
Features

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

- Exposure time: 3.0 µs, 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