



Bonito CL-400

- High speed camera
- Compact Design
- Robust, lightweight housing
- Very low power consumption



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).

Benefits and features:

- 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, 4.2 W

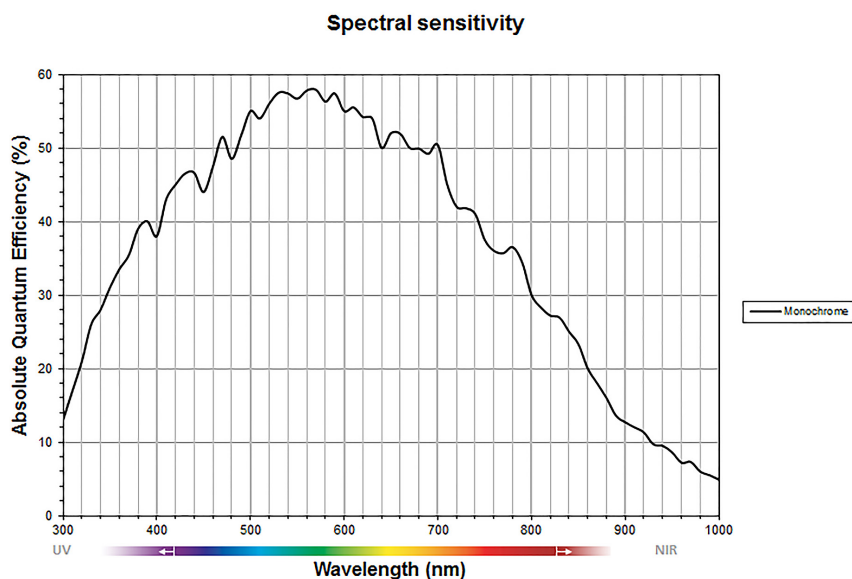
Options:

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

Specifications

Bonito	CL-400
Interface	2 x 10-tap Camera Link Full+
Resolution	2320 (H) × 1726 (V)
Sensor	CMOS Sensor 4 MPixel
Sensor type	CMOS Progressive
Cell size	7 μm x 7 μm

Bonito	CL-400
Lens mount	C-Mount, EF-Mount, F-Mount
Max frame rate at full resolution	386 fps
ADC	10 bit
Image buffer (RAM)	
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 to +45 °C
Power requirements (DC)	12 V
Power consumption (@12 V)	4.2 W
Mass	360 g (C-Mount)
Body dimensions (L × W × H in mm)	44.2 × 80 × 70 (including connectors)
Regulations	CE (2004/108/EC), RoHS (2011/65/EU)



Features

- Region of interest (ROI)
- 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



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:

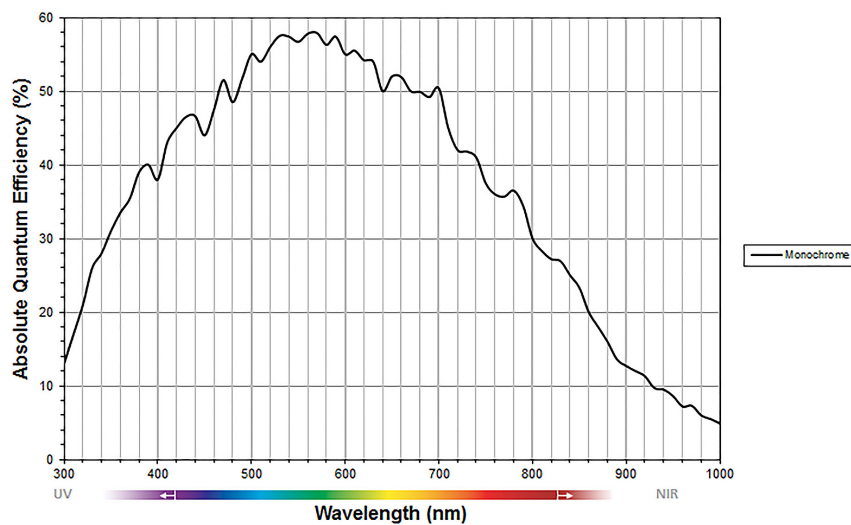
- Available with C- / F- / EF-Mount

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 Progressive
Cell size	7 μm x 7 μm
Lens mount	C-Mount, EF-Mount, F-Mount

Bonito		CL-400 200 fps	
Max frame rate at full resolution		193 fps	
ADC		10 bit	
Image buffer (RAM)			
		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 to +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 (including connectors)	
Regulations		CE (2004/108/EC), RoHS (2011/65/EU)	

Spectral sensitivity



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 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