



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

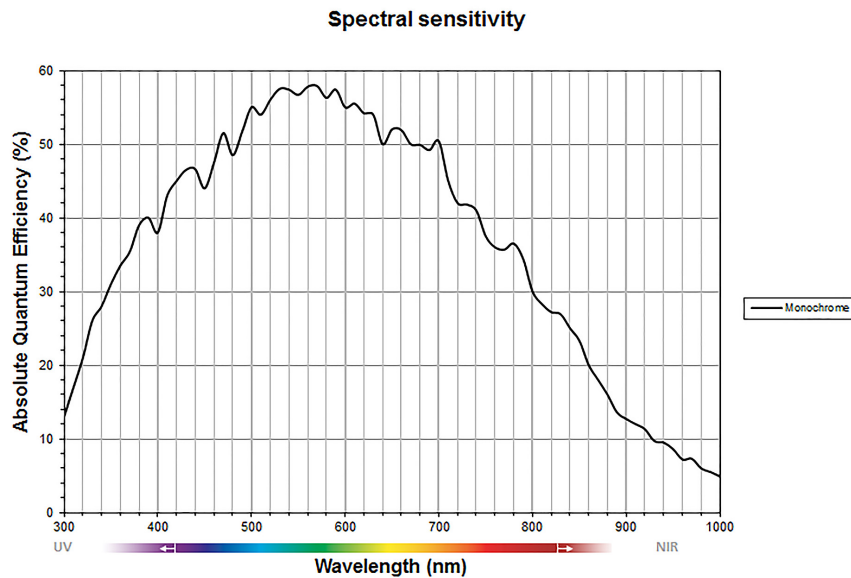
Options:

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

Specifications

| Bonito | CL-400 |
|-------------|------------------------------|
| Interface | 2 x 10-tap Camera Link Full+ |
| Resolution | 2320 × 1726 |
| 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 |
| 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 | 360 g (C-Mount) |
| Body dimensions (L × W × H in mm) | 44.2 × 80 × 70 mm incl. connectors, w/o tripod and lens |
| Regulations | CE, FCC |



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 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