



## Bonito

### CL-400 200 fps

- Bonito CL-400 200 fps High Speed camera, 4 Megapixels with 193 fps, Camera Link

#### **For fast image acquisition of still and moving objects.**

High Speed Camera, sensitive global shutter CMOS sensor, Camera Link

Bonito CL-400 200 fps 搭载 CMOS Sensor 4 MPixel 传感器，在 4.0 MP 分辨率下速度可达 193.0 帧/秒。

The Bonito is a high speed camera with a sensitive global shutter CMOS sensor. The Bonito CL-400B/C runs 386 fps at 4 Megapixel resolution and has an ultra-fast 2 x 10-tap Camera Link Full+ interface. Considerably higher frame rates can be reached with a smaller ROI (region of interest). The Bonito CL-400B/C 200 fps version runs 193 fps at full resolution and is equipped with a 1 x 10-tap Camera Link Full+ interface.

- 386 fps at 2320 x 1726 pixels (200 fps version: 193 fps)
- Global shutter CMOS sensor (excellent sensitivity due to microlenses)
- Robust and lightweight aluminum housing
- Very low power consumption, 4 W

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

## 性能参数

|        |                              |
|--------|------------------------------|
| 接口     | 1 x 10-tap Camera Link Full+ |
| 分辨率    | 2320 (H) × 1726 (V)          |
| 传感器    | CMOS Sensor 4 MPixel         |
| 传感器类型  | CMOS                         |
| 传感器尺寸  | Type 4/3                     |
| 像元尺寸   | 7 μm × 7 μm                  |
| 标准镜头接口 | C-Mount, EF-Mount, F-Mount   |
| 最大满帧帧率 | 193 fps                      |
| ADC    | 10 Bit                       |

## 输出

|        |       |
|--------|-------|
| Bit 位数 | 8-bit |
| 黑白像素格式 | Mono8 |

## 通用输入输出口 (GPIOs)

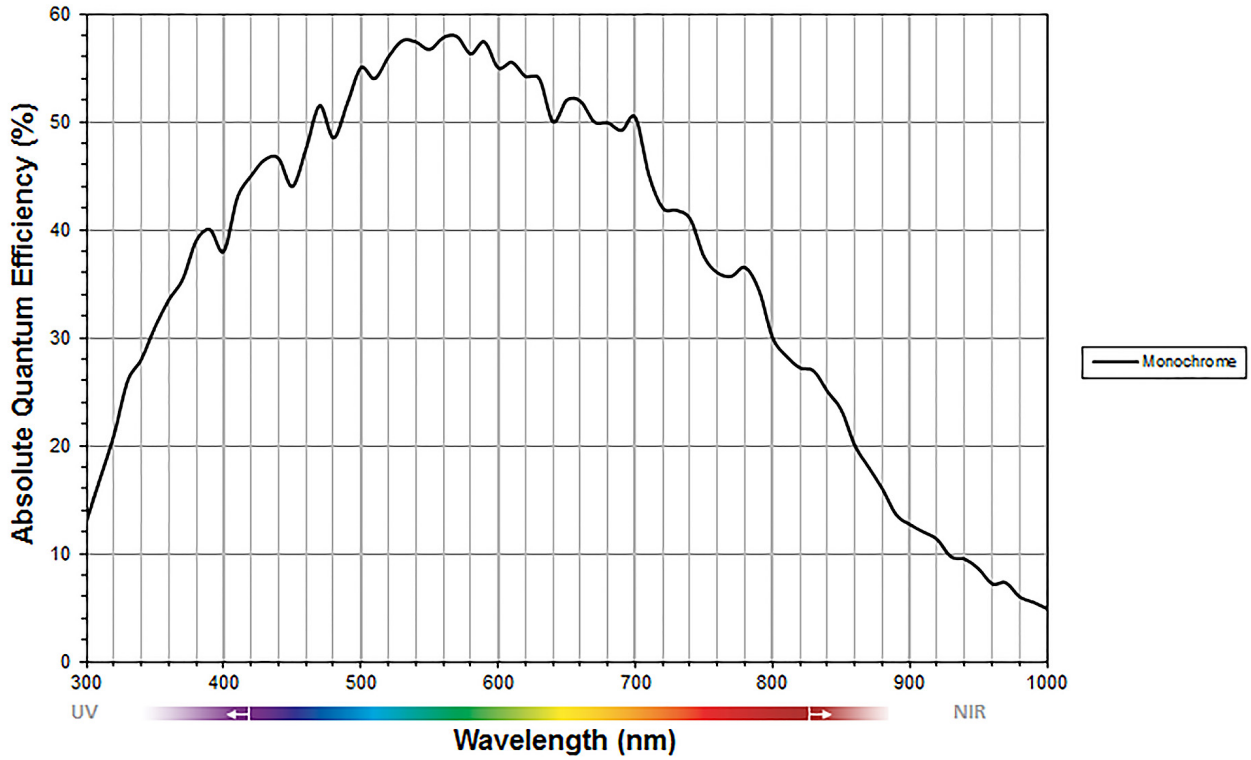
|         |             |
|---------|-------------|
| 光耦 I/Os | 1 in, 1 out |
|---------|-------------|

## 工作条件/尺寸

|                      |                                       |
|----------------------|---------------------------------------|
| 工作温度                 | 0 °C to +45 °C                        |
| 电源要求 (DC)            | 12 V                                  |
| 功耗                   | 4.2 W @ 12 VDC                        |
| 重量                   | 350 g (C-Mount)                       |
| 尺寸 (L × W × H in mm) | 44.2 × 80 × 70 (including connectors) |

量子转换效率

Spectral sensitivity



## 特性

- Region of interest (ROI)
- Fixed pattern noise (FPN) correction
- Digital gain (selects 8 of 10 bits for output)
- Offset (brightness)
- Exposure time: 3.0  $\mu$ s, up to 1 s (recommended), > 1s also possible
- Continuous mode (image acquisition with maximum frame rate)
- Image on demand mode (triggered image acquisition)

## 应用场景

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