



## Bonito CL-400



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

For fast image acquisition of still and moving objects.

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

Bonito CL-400 搭载 CMOS Sensor 4 MPixel 传感器，在 4.0 MP 分辨率下速度可达 386.0 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

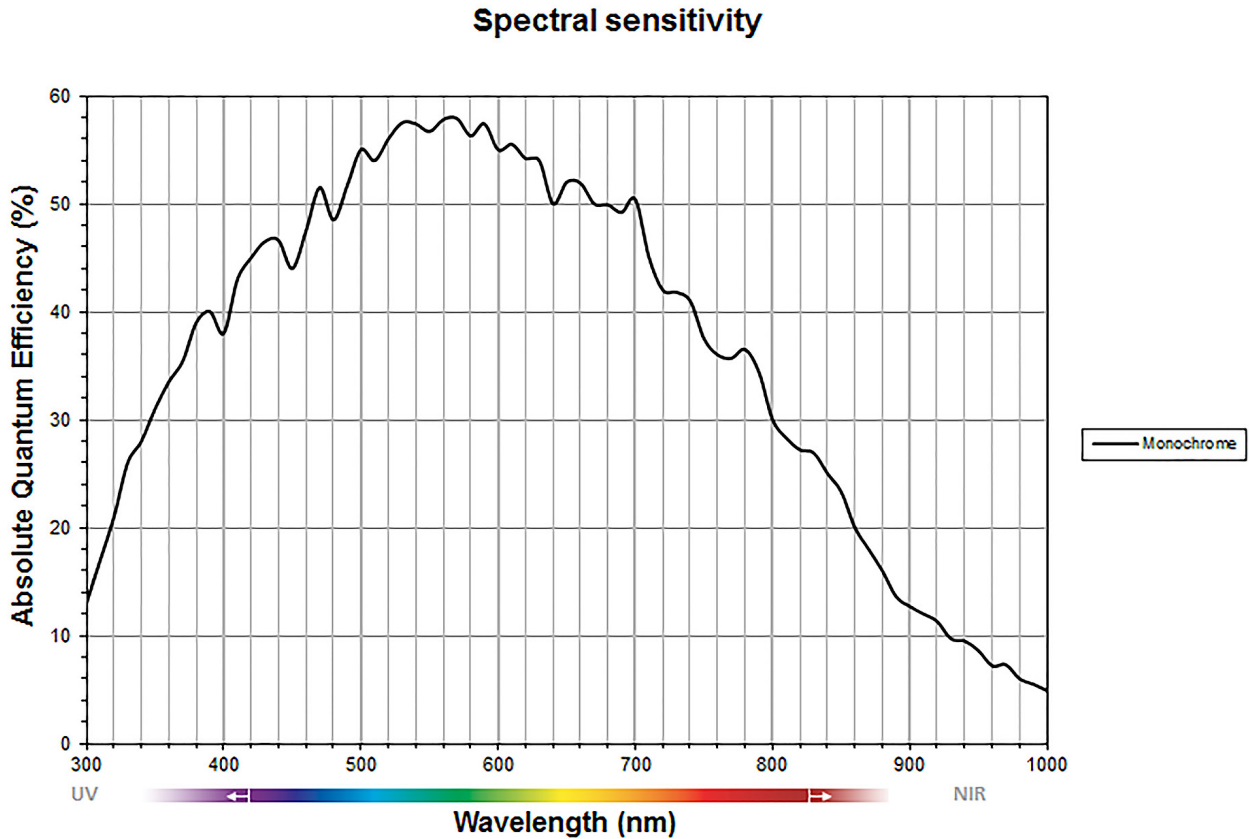
**Options:** Available with C/F/EF-Mount

### 性能参数

Bonito CL-400	
接口	2 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

<b>Bonito CL-400</b>	
传感器尺寸	Type 4/3
像元尺寸	7 $\mu\text{m}$ $\times$ 7 $\mu\text{m}$
标准镜头接口	C-Mount, EF-Mount, F-Mount
最大满帧帧率	386 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	360 g (C-Mount)
尺寸 (L $\times$ W $\times$ H in mm)	44.2 $\times$ 80 $\times$ 70 (including connectors)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS)

## 量子转换效率



## 特性

- Region of interest (ROI)
- Fixed pattern noise (FPN) correction
- Digital gain (selects 8 of 10 bits for output)
- Offset (brightness)
- Exposure time: 1.5  $\mu$ 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)

## 应用场景

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