BASLER A200 SERIES

The BASLER A200 Series cameras provide the market with exceptionally designed high-speed megapixel (1k x 1k) digital camera technology. This series of products, like Basler's other products, has a small footprint, easy Windows® based configuration tool, simple cabling, and single source power supply.

HIGH SPEED. PROGRESSIVE. DIGITAL. MEGAPIXEL.

AREA SCAN CAMERAS

Features

- 30 fps frame rate
- 2x21 MHz pixelclock at dual tap
- High-resolution (megapixel) array
- High sensitivity
- Electronic exposure time control
- High signal-to-noise ratio
- Calibrated optical distance
- Anti-blooming
- Programmable
- Compact housing manufactured with high planar, parallel and angular precision

Outline

The BASLER A200 Series of area scan camera is one of the fastest progressive scan cameras available, up to 30fps (frames per second). The cameras' interline sensor technology makes the series a great fit for applications requiring real time image capture. The cameras outputs digital data via Channel Link or RS-644 LVDS signal and allows for external synchronization via an ExSync signal.

SPECIFICATIONS

Camera Series

The BASLER A200 Series of Area Scan cameras have been designed for advanced users of digital industrial cameras. The series includes:

A201b 1008 x 1018 Pixels
30 fps
2x21 MHz Pixel Clock
(dual tap)

Additional camera feature options:

- monochrome
- color (c)

Sample Applications

- Glass bottle inspection
- Semiconductor / electronics inspection and placement
- Microscopy
- ID code reader / OCR
- And many more

Input Signals

The ExSync (external synchronization) signal on the BASLER A200 cameras uses RS-644 technology. The camera can be programmed to function under the control of an externally generated synchronization signal in one of three exposure time control modes. In these modes, programmable, level-control, and free-run the ExSync signal is used to control exposure time and/or frame rate.

Output Signals

The BASLER A201b camera output data is transmitted using 28 bit Channel Link technology. The camera transmits data in a 2x21MHz/dual 10-bit mode or a 2x21MHz/dual 8-bit mode. Frame valid and line valid signals are available to identify when valid frame and valid line data is being transmitted.

Dimensions

62±0,2

62±0,2

□53

0.1

0.1

0.1 A

A

Pan head screws ISO 7045 H-M2

38,1

36,5

13

15
CCD

ø55

~6,5

12x M4; 5 deep

48±0,2

48±0,2

ø55,

Megapixel
High Speed Digital
Progressive

Specifications   BASLER A201b

Sensor	Interline transfer progressive scan CCD
Pixels	1008 (H) x 1018 (V) pixels
Pixelclock	2x21 MHz (dual tap)
Frame rate	30 fps
Pixel size	9μm x 9μm
PRNL	±5%
PRNU	±5%
Video output	8- or 10-bit (digitization via 10-bit A/D), Channel Link, dual tap
Synchronization	External via ExSync or internal Free-run
Exposure control	Edge, level or programmable
Gain and offset	Programmable via serial link
Connector	One, 26 pin, high-density, MDR plug
Power	12V DC (±10%, max 5W)
Vibration	8G (10Hz ~ 150Hz) 1 hour each axis
Shock	80G (IEC 68)
Size (housing only)	37.5 x 62 x 62mm (L x W x H)
Weight	380g (F- or M42-Mount); 310g (C-Mount)
Lens mount	F-Mount, C-Mount, or M42
Conformity	CE, FCC

Specifications may change without notice.
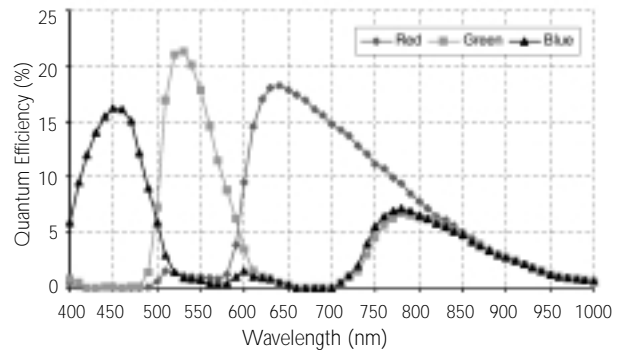
A200 SERIES

BASLER A200 SERIES

Responsivity

Spectral Response Sensitivity
Characteristics Charts have been
supplied by the sensor manufacturer.
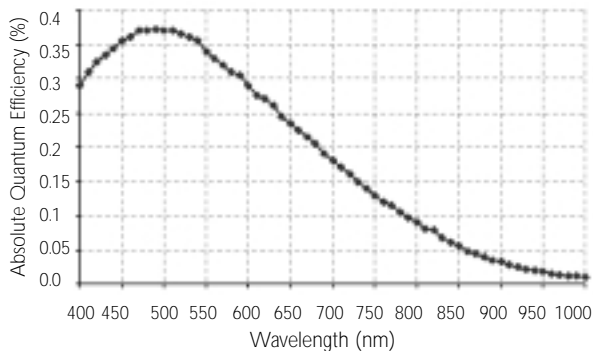
A201b Monochrome Camera

A201bc Color Camera

Configuration Tool

Today's high performance digital
cameras require a robust software
tool to take advantage of the variety
of features available. Basler-MVC
provides, free of charge, the Camera
Configuration Tool, which is a
Windows® based software package
designed to make setting up our new
Basler camera simple.
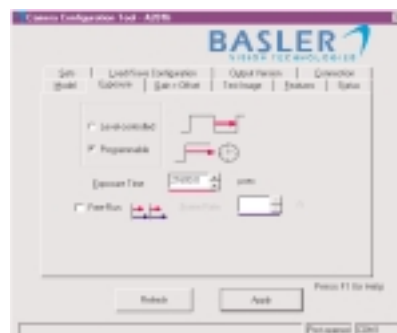
MACHINE VISION COMPONENTS

basler-mvc.com

BASLER
VISION TECHNOLOGIES