

Basler dart USB Evaluation Kit



Camera System Evaluation Made Easy – With Basler’s dart USB Evaluation Kit

Are you looking for the right camera to integrate into your embedded vision project? Basler makes your life easier with a plug and play evaluation kit for Basler’s dart USB cameras.

System design engineers for imaging applications face an overwhelming range of options when choosing the right camera for their embedded vision project. If you’re currently in this situation, you know that finding the right camera and suitable accessories requires a lot of time and, thus, money.

You can now shorten this process by using the Basler dart USB Evaluation Kit, a plug and play kit to get acquainted with the camera’s optical performance, which is also useful if you are planning an embedded vision solution with a dart camera with BCON for LVDS interface.

In combination with the pylon Viewer and SDK, the easy-to-use evaluation kit contains everything to get acquainted with a Basler dart board level camera: its size, features, and excellent image quality. In addition, the evaluation kit facilitates vision integration for a variety of embedded vision systems ranging from industrial to non-industrial applications.

The Basler dart USB Evaluation Kit comes with the following components:

- Basler dart daA2500-14uc camera, S-mount
- Evetar lens M12B0816W F1.6 f8mm 1/2"
- USB 3.0 cable, Micro B/A, 1 m
- Getting Started Guide
- Basler pylon Camera Software Suite (free download)

Your benefits include:

- Plug and play camera system evaluation
- No additional accessories required
- Industry-proven pylon Camera Software Suite included for free
- Extremely compact, USB3 Vision compliant camera with a resolution of 5 megapixels
- PGI – Basler’s unique feature set for powerful in-camera image optimization

TECHNICAL DETAILS

Specifications

Basler dart USB Evaluation Kit	
Components	
Scope of Delivery	Camera module, lens, USB 3.0 cable
Camera	
Camera Model	daA2500-14uc
Resolution (H×V pixels)	2592×1944
Sensor	ON Semiconductor MT9P031
Sensor Size (optical)	1/2.5"
Sensor Technology	CMOS, rolling shutter
Pixel Size [µm ²]	2.2×2.2
Frame Rate [fps]	14
Mono/Color	Color
Video Output Format	YCbCr 422_8, Bayer (8, 12), RGB 8
Interface	USB 3.0
Synchronization	Via external trigger or free-run
Exposure Control	Via external trigger or programmable via the camera API
Housing Size (L×W×H)[mm ³]	20×29×29
Lens Mount	S-mount (M12)
Digital I/O	2 Fast-GPIO (configurable as In/Out)
Power Requirements	Via USB 3.0 interface
Power Suspend Mode	Yes, less than 20 mW, configurable
Power Consumption (typical)	-1.3 W
Conformity	CE, GenICam, RoHS, UL, USB3 Vision
Lens	
Lens Model	Evetar M12B0816W F1.6 f8 mm 1/2"
Aperture	F1.6
Focal Length	8 mm
Software / Driver	
Driver	Basler pylon Camera Software Suite
Operating System	Windows, Linux (for ARM and x86 architecture), Mac OS X
Conformity	USB3 Vision, GenICam

Specifications are subject to change without prior notice.

Latest specifications and availability can be found on our website www.baslerweb.com/evkits. Please visit www.baslerweb.com/manuals for the detailed camera User's Manual and www.baslerweb.com/thirdparty for information on third party software.

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