

Blue Eagle digital camera DC3K-1-ETH

The Blue Eagle DC3K-1-ETH is a HDR-CMOS image sensor camera with IEEE 802.3 (100Base-TX) data interface. The camera has a cubic housing layout with a M8 connector and is capable of streaming H.264 or MJPEG decoded video data. Key feature is its very high thermal and mechanical stability. The Blue Eagle camera is resistant against harsh environmental conditions like mechanical shocks, vibrations and hazardous atmospheres. Due to its IP67 housing the camera is also suitable for outdoor applications.



Features

- Quiet-wire data interface (IEEE 802.3)
- 12 VDC
- Low power consumption
- Wide range of fixed focus optics available
 - $\text{HFoV}_{\text{Min}} = 52^\circ$
 - $\text{HFoV}_{\text{Max}} = 192^\circ$
- Water tight optic with anti-scratch
- IP67 protection class
- Extended operating temperature
 - $T_{\text{Min}} = -40^\circ\text{C}$
 - $T_{\text{Max}} = +85^\circ\text{C}$

Applications

- Front view, rear view, area view and blind spot detection
- Cars
- Heavy trucks
- Forklifts
- Agriculture equipment
- Mining machines

Certificates

- ISO/TS 16949

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Specifications

Parameter	
Power supply	$V_{DCIN} = 12 \text{ VDC}$
Current consumption	140 mA @ 12 VDC
Operating temperature	-40 °C ... +85 °C

Technical data

Parameter	STMicroelectronics imager
Sensor type	1/2.7 inch HDR-CMOS sensor ST VG6640 additional STV0991 1.3 Mp (1304 x 980)
Supported picture size	QVGA (1280 x 960) WXGA (1280 x 800) HD 720p (1280 x 720) WVGA (752 x 480) VGA (640 x 480)
Sensitivity	Dynamic range: up to 132 dB
Data interface	Microchip KSZ8061MNX MJPEG or H.264 (I- and P-frames) Scalable data rate (up to 40 MBit/sec) Adjustable frame rate up to 30 fps
Format video stream	UDP/RTP or 1722 AVB-Package ⁽¹⁾
Band width	~40 MBit/sec
General camera parameter	Automated gain control (AGC) High dynamic range (HDR) Automated white balance (AWB) Shutter: Electronic rolling shutter (ERS)
Optics	52° ±1° horizontal field of view 105° ±2° horizontal field of view 192° ±3° horizontal field of view Anti-reflection coating (ARC), anti-scratch

Specification notes

(1) IEEE 802.1AS; IEEE 802.1Qav Traffic shaping compliance; IEEE802.1Qat Stream Reservation Protocol.