

Blue Next Network digital camera E4P

The Blue Next Network digital camera is a HDR-CMOS image sensor camera with IEEE 802.3af (100Base-TX) data interface. The camera has a cubic housing layout with a HSD connector and is capable of streaming MJPEG or H.264 decoded video data. Key feature is its very high thermal and mechanical stability. The Blue Next Network camera is resistant against harsh environmental conditions like mechanical shocks, vibrations and hazardous atmospheres. Due to its IP6K9K housing the camera is also suitable for outdoor applications.



Features

- Ethernet data interface (IEEE 802.3af)
- PoE (37 ... 57 VDC)
- Low power consumption
- Wide range of fixed focus optics available
- HFoV_{Min}= 52°
- HFoV_{Max}= 192°
- Water tight optic with anti-scratch
- IP6K9K protection class
- Extended operating temperature
- T_{Min}= -40°C
- T_{Max}= +85°C

Applications

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

Certificates

- ISO/TS 16949

Contact

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Specifications

Parameter	
Power supply	37 ... 57 VDC (related to Power over Ethernet)
Power consumption	approx. 2 W (related to PoE class 1)
Operating temperature	-40 °C ... +85 °C
Storage temperature	-40 °C ... +85 °C
Water resistance	IPX7, IPX9K (only front side of the camera)
Dust resistance	IP6KX

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	Adjustable resolution: 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	Power over Ethernet (related to IEEE 802.3af) tbc. 100Base-TX MJPEG or H.264 Scalable data rate (up to 40 Mbit/s) Adjustable Framerate up to 30 fps (@Full resolution)
Format video stream	UDP/RTP w/ or w/o RTSP according RFC 2326 Standard or 1722 AVB-Package ⁽¹⁾
Band width	Approx. 5 ... 40 Mbit/s (depending on resolution, framerate and compression)
General camera parameter	Automated gain control (AGC) High dynamic range (HDR) Automated white balance (AWB) Shutter: Electronic rolling shutter (ERS)
Command Interface	UDP Control Channel Configurable parameters: <ul style="list-style-type: none"> - IP Address - Target IP - Network mask - Gateway IP - Camera configuration port number - Video stream port number - MAC Address - Resolution - Framerate - I/P ratio (H.264) - Bitrate - Videocodec (MJPEG/H.264)
Optics	52° ±2° 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