

## Blue Next digital camera API

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The Blue Next digital camera API is a HDR-CMOS image sensor camera with APIX2 data interface. The camera has a cubic housing layout with HSD connector. Key feature is its very high thermal and mechanical stability. The 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.



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### Features

- APIX2 data interface
- 12 VDC Power over APIX (PoA)
- Low power consumption
- Wide range of fixed focus optics available
- HFoV<sub>Min</sub>= 52°
- HFoV<sub>Max</sub>= 192°
- Water tight optic with anti-scratch
- IP6K9K protection class
- Extended operating temperature
- T<sub>Min</sub>= -40°C
- T<sub>Max</sub>= +85°C

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### Applications

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

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### Certificates

- ISO/TS 16949

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### Contact

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### Specifications

Parameter	
Power supply (PoA)	$V_{DC\ IN-NOM} = 12VDC$
Current consumption	105 mA @ 12 VDC and 15 fps 125 mA @ 12 VDC and 20 fps 140 mA @ 12 VDC and 30 fps
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	OmniVision imager
Sensor type	1/2.7 inch HDR-CMOS sensor OV10635 1.0 Mp (1280 x 860)
Supported picture size	Adjustable resolution: WXGA (1280 x 800) HD 720p (1280 x 720) WVGA (768 x 480) VGA (640 x 480)
Sensitivity	Dynamic range: > 100 dB Max. S/N ratio: 39 dB
Data interface	APIX2 high speed serial interface Up to 1.5Gbit/s sustained downstream link bandwidth CRC protected, full-duplex data communication Video data integrity features
General camera parameter	Automated gain control (AGC) High dynamic range (HDR) Automated white balance (AWB) Shutter: Electronic rolling shutter (ERS)
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