



ArkCam Smart



Ark Vision Systems



ArkCam Smart

The digital Ethernet camera "ArkCam Smart" is the ideal sensor for demanding image processing tasks. With our cameras we meet the high requirements for mobile or stationary applications under rugged environmental conditions.

Due to the high optical resolution and the powerful processor core the implementation of complex applications is possible. Customer applications can be easily integrated by means of a Software Development Kit (SDK). The "ArkCam Smart" is developed and manufactured in Germany.



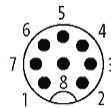
Key Facts

- **FullHD resolution** 2 Megapixel
- **Powerful, embedded processor** for image processing tasks
- Adaptable also for **own customer developments** by SDK
- Video output format **Motion JPEG or H.264**
- **Extended temperature range** from -40°C to +85°C
- **High mechanical load capacity** up to 100 g
- **High pressure cleaner resistant** according to IP69K
- **Integrated illumination** IR or white light

Connector

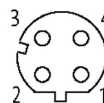
Power supply and signals

- Connector type M12 A-coded 8polig



Datasignals

- Connector type M12 D-coded 4polig



Technical specifications

Sensor

- resolution 1920 x 1080 (2MP)
- CMOS image sensor 1/2.7" / HDR
- frames per second 30 (FPS)

Power supply

- 9-32V DC
- power consumption < 13 W

Viewing angles

- 45°, 60°, 90°, 125°

Operating temperature

- -40°C bis +85°C

Storage temperature

- -40°C bis +85°C

EMC resilience / authorization

- Approvals in accordance with all relevant EMC guidelines from the areas of industry, agricultural machinery, forklifts and construction machinery. Certificates available on request.

Mechanical resilience

- Shock and vibration resistant for use in the areas of agricultural machinery, forklifts and construction machinery. Certificates available on request.

Protection classes

- IP68 protection against permanent immersion.
- IP69K protection against water during high pressure / steam jet cleaning.
- Certificates available on request.

Front glass

- specially hardened & anti-reflective

Interface

- Ethernet 100BASE-TX
- Digital I/Os 2xInput/2xOutput
- CAN

Connector

- 1x M12/D
- 1x M12/A

Lighting (optional)

- 850nm IR or white light LED

Housing

- aluminum anodized

Processor

- High-performance i.MX 8M Mini Embedded Multicore application processor for multimedia applications.

Protocol

- RTP (UDP) / RTSP (TCP/IP)

Output format

- H.264/Motion-JPEG

Software

- Software development kit and configuration tool available.

Drawing

