ARK
VISION
SYSTEMS

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.
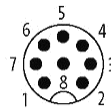
Key Facts

- **FullHD resolution** 2 Megapixel

- **Powerful, embedded processor** for image processing tasks

- Adaptable also for **own customer developments** by SDK

- Video output format **H.264**

- **Extended temperature range** from -40°C up to +85°C

- **High mechanical load capacity** up to 100 g

- **High pressure cleaner resistent** according to IP69K

- **Integrated illumination** IR or white light (optional)
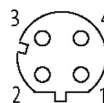
Connector

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 up to +85°C

Storage temperature

- -40°C up to +85°C

Electromagnetic compatibility (EMC)

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

Mechanical load capacity

- 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
- glass heating

Interface

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

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

Software

- configuration via WebGUI
- Software Development Kit (via Docker)

Drawing

85,00

56,50

105,00

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