



RCAM-IR

VEHICLE ELECTRONICS

Rugged Camera Module - InfraRed

The Rugged Camera Module, RCAM-IR, is a digital fully rugged camera platform supporting Ethernet protocols as DEF STAN 00-82, GigE-Vision or SAAB Video Distribution System – SAAB VDS. RCAM-IR includes a VGA LWIR sensor, digital processing blocks for video digital and camera control over Ethernet with extreme low latency for demanding application as drivers video enhancement etc. The unit is designed for distributed power typically routed from adjacent Ethernet-switch (single cable concept).



Front view



Rear view

Main design features

- LWIR VGA sensor
- MIL-C-38999 connector
- Climatically sealed housing, IP65
- Easy maintenance, few parts
- Prepared for future functionality
- Fast start-up
- Low Latency
- DEF STAN 00-82, GigE-vision or SAAB VDS Compatible
- Rugged for most demanding applications
- Qualified according to: MIL-STD-810, MIL-STD-461 and MIL -STD-1275

Configuration

- Resolution; 640 x 480 active picture elements
- Pixel pitch; 17 μm
- Array type; uncooled micro bolometer (a-Si)
- Thermal sensitivity; (NETD) <55 mK @30Hz, 300K, F/I
- Spectral band; 8 μm to 12 μm
- NUC shutter for calibration
- Lens: 9.6 mm f/1.0, athermalized, fixed focus, HFOV approx. 69°
- Germanium front glass, hard/AR-coated + defroster
- Gbit Ethernet LAN Video Interface according to SAAB VDS
- Full screen and quarter image output
- DIVA-CORE module and Ethernet video transmission/camera control
- Distributed power, single cable design
- Power input based on MIL-STD-1275
- Color RAL6031
- Horizontal orientation

External connectors

The unit is equipped with one rear, straight-out connector type MIL-C-38999

Mechanical interface

The RCAM is assumed to be fixed mounted in the vehicle. External damping devices are not required.

Dimensions

Height	100 mm
Width	70 mm
Depth	122 mm excl. rear connector
Weight	0,8 kg

Miscellaneous

Power consumption:
Nom. 15 W, Max. 70 W (defroster active)

Options

- DEF STAN 00-82 or GigE-Vision output
- Video compression H.264
- Image enhancement
- Image stabilization
- Object recognition
- Other customized options on request
- Vertical orientation
- Customized FOV
- Customized colors on request
- Defroster

Environmental

- Operating temperature: -40°C to +65°C
- Storage temperature: -46°C to +71°C

Specifications subject to change without notice

