



Model RFK-HT 125

## Camera RFK-HT 125

- IP69 Automotive Qualified
- Modular Design
- 105°C

### Description

High temperature version SMS RFK-HT125 is a cost effective, fully integrated modular camera solution. It consists of VGA CMOS sensor, a CVBS output interface wide range power supply and a robust housing. It is certified for harsh environment applications.

Its analog PAL/NTSC output signal ensures the compatibility with standard video systems. The camera is perfectly designed for a wide range of automotive and industrial applications.

### Applications

#### *Video Surveillance and Video Control for Traffic Systems*

- Trucks, cars, ships and yachts
- Railway, local train, subways
- Public busses

#### *Industrial Systems*

- Facility management
- Logistics
- Access control and security

### Compatibility

- PAL
- NTSC
- LVDS



Equipped with a robust and reliable aluminum housing

## Key Features

<b>Sensor</b> <b>Resolution</b> <b>Responsivity</b>  <b>Output Signal</b> <i>(customization by manufacturer)</i>	Color CMOS-sensor (1/4") VGA 640 x 480 px 2V/lux-sec for color images (2 lux) 0.5V/lux-sec for b&w images (0,25 – 0,5 lux) CVBS PAL / NTSC @ 75 Ohm single ended or differential	<b>Operational Temperature</b> <b>Storage Temperature</b> <b>Input Voltage</b>  <b>Default Operating Mode</b>	-45°C to +105°C -45°C to +115°C 8VDC to 40VDC  Automatic brightness control and automatic white balance
<b>Dimensions</b> <b>Dynamic Range</b> <b>Field of View</b>	30 mm ø x 47 ... 53 mm > 69 dB 40°, 60°, 90°, 130°, 150°, 170° others upon request	<b>Power Consumption</b> <b>Polarity Protection</b> <b>Overvoltage Protection</b> (supply)	Approx. 0.4 W  110V@1ms

## Reliable Test Flow (according DIN EN 680068-01)

Flow	Test condition								
<b>Pre-conditioning</b>	100h@-50°C, 200h@+85°C, thermal shock (100 cycles) 30 min hold time at -40°C and +85°C								
<b>Test group 1</b>	Mechanical shock test (half sinus) 10 times per axis with 981m/s <sup>2</sup> , Puls length 6 ms Sinus shock for 8 hour per axis with (27.8m/s <sup>2</sup> ) <sup>2</sup> /Hz Long random vibration test 8 hour for each axis, acceleration (27.8m/s <sup>2</sup> ) <sup>2</sup> /Hz Mechanical shock test (sinusoidal) 30000 times (z-direction) with 981m/s <sup>2</sup> Puls length 6 ms Humidity test 85°C at 85% for 1500 hours								
<b>Test group 2</b>	<table border="0"> <tr> <td>Dust test (with Arizona dust fine)</td> <td>Salt fog for 24 hours</td> </tr> <tr> <td>Fluid test with e.g.                             <ul style="list-style-type: none"> <li>• preservative</li> <li>• cleaning solvent</li> <li>• fuel (diesel, gas)</li> <li>• ethylalcohol</li> </ul> </td> <td>IP69K</td> </tr> <tr> <td></td> <td>Water drip test 10 cycle for 5min at 5°C</td> </tr> <tr> <td></td> <td>Drop test (height 1m; concrete)</td> </tr> </table>	Dust test (with Arizona dust fine)	Salt fog for 24 hours	Fluid test with e.g. <ul style="list-style-type: none"> <li>• preservative</li> <li>• cleaning solvent</li> <li>• fuel (diesel, gas)</li> <li>• ethylalcohol</li> </ul>	IP69K		Water drip test 10 cycle for 5min at 5°C		Drop test (height 1m; concrete)
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	Drop test (height 1m; concrete)								
<b>Test group 3</b> (at 27°C)	Connector and lead strength for 30s with 10 kg Resistance against overvoltage (48V for 60min)  Short circuit resistance at power line for 60s Protection against polarity reversal (48V for 60min)								

## Dimensions Housing (option)

90 x 58 x 55 mm<sup>3</sup>



**Cable and connector**

M8, M9, USB

USB Connection

- with custom pinning
- according to USB protocol (input voltage limited to 5 V)

## Dimensions Camera

