IQAN-SV
Ethernet Cameras
Electronic Control Systems
Application
The IQAN-SV is an Ethernet (IP) camera that provides a vision system to vehicles using the IQAN-MD4 family of master display modules. This type of unit is a small dimension IP camera to be used as a mobile vehicle blind spot monitor or rear view camera in an IQAN control system.

Properties
The IQAN-SV is a new generation of digital, high resolution IP camera using an Ethernet video link to work together with IQAN-MD4 master displays. Settings and control of the IQAN-SV camera are easily accomplished by using IQAN software for:

- Rear view
- Video size picture scaling
- Split screen view
- Easy application logic integration

The IQAN-SV camera has plug-and-play functionality and all addressing is handled automatically by IQAN software. There is no need for time consuming, complex IP address allocation.

IQAN-MD4 and the vision system is expandable to a number of cameras by use of an Ethernet switch.

The IQAN-SV camera has 120° field of view, excellent video quality, color and light sensitivity. The fast frame rate provides a high quality video stream with no noticeable latency.

Installation
The IQAN-SV is designed for outdoor use on mobile machinery. The enclosure is sealed for outdoor use and the camera is robust to handle heavy vibrations and other stresses found in mobile equipment. The connector is a sealed 4 position M12 type mounted on a 500 mm long cable. There is a 2 position Deutsch DTM to supply power to the camera.

The anodized aluminum camera housing and glass-filled nylon bracket is designed for easy mounting using 2 screws. A supplied grommet protects the cable from sharp edges of the vehicle chassis. The IQAN-SV is fully adjustable to accommodate any mounting location and capture the desired field of view.

Specifications

<table>
<thead>
<tr>
<th>General</th>
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</thead>
<tbody>
<tr>
<td>Weight</td>
<td>0.21 kg</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40 to +85 °C</td>
</tr>
<tr>
<td>Operating, ambient</td>
<td>-40 to +105 °C</td>
</tr>
<tr>
<td>Storage, ambient</td>
<td>-40 to +105 °C</td>
</tr>
<tr>
<td>Protection</td>
<td>IP67, IP6K9K</td>
</tr>
<tr>
<td>Voltage supply</td>
<td>9 - 32 Vdc</td>
</tr>
<tr>
<td>Current consumption (typ.)</td>
<td>60 mA (28 Vdc)</td>
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<tr>
<td></td>
<td>100 mA (14 Vdc)</td>
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<tr>
<td>Start up time</td>
<td>4 seconds</td>
</tr>
<tr>
<td>Video latency (max)</td>
<td>300 ms</td>
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<tr>
<td>Light sensitivity</td>
<td>Response 5,5V/lux-sec</td>
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<tr>
<td>Compression</td>
<td>Low light feature &lt;0,1 Lux</td>
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<tr>
<td>Lens horizontal view</td>
<td>120°</td>
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<tr>
<td>CE marking</td>
<td>2004/108/EC</td>
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</tbody>
</table>

Communication

- Type: Ethernet, 100 base-TX, Auto-MDIX (crossover)
- Protocols: ISO17215, IEEE1722, RTP over UTP, RFC2435
- Ethernet: 100 Mbps

Ordering part number

- IQAN-SV: 20085106
- Connector kit: 20085109

Configuration 1 Single camera system

Configuration 2 Double camera system

Configuration 3 Multiple camera system
Environmental protection

EMI
ISO 13766:2010/ISO 14982:2009, Radiated emission
EN 55025:2008, Conducted emission
ISO 11452-2:2004, Radiated susceptibility
ISO 11452-4:2005, Conducted susceptibility
ISO 7637-2:2004, Conducted transient on power
ISO 7637-3:2007, Conducted transient on signal

Mechanical environment
IEC 60068-2-64: 2008 Fh, Random vibration
IEC 60068-2-27:2008 Ea, Bump

ESD
ISO 10605:2008, Operation, handling

Climate environment
IEC 60529:2001, IP67, Water & dust
DIN 40050 Part 9:1993, IP6K9K, Steam cleaning
IEC 60068-2-52:1996 Kb, Salt mist
IEC 60068-2-30:2005 Db, Damp heat cyclic
IEC 60068-2-78:2001 Cab, Damp heat steady state
IEC 60068-2-2:2007 Bb, Heat operation, storage
IEC 60068-2-1:1993 Ab, Cold
IEC 60068-2-14:1984 Nb, Change of Temperature

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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