



IQAN-SV Ethernet Cameras

Electronic Control Systems



ENGINEERING YOUR SUCCESS.

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

General

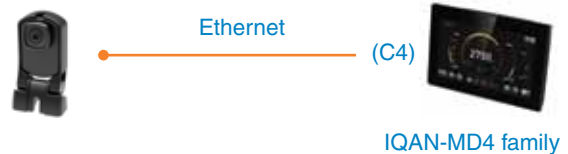
Weight	0.21 kg
Temperature range	
Operating, ambient	-40 to +85 °C
Storage, ambient	-40 to +105 °C
Protection	IP67, IP6K9K
Voltage supply	9 - 32 Vdc
Current consumption (typ.)	60 mA (28 Vdc) 100 mA (14 Vdc)
Start up time	4 seconds
Video latency (max)	300 ms
Light sensitivity	Response 5,5V/lux-sec Low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

Communication

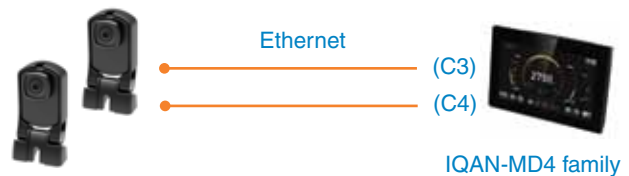
Type	Ethernet, 100 base-TX, Auto-MDIX (crossover)
Protocols	ISO17215, IEEE1722, RTP over UTP, RFC2435
Ethernet	100 Mbps

Ordering part number

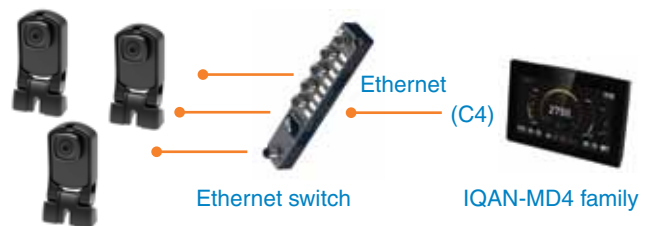
IQAN-SV	20085106
Connector kit	20085109



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

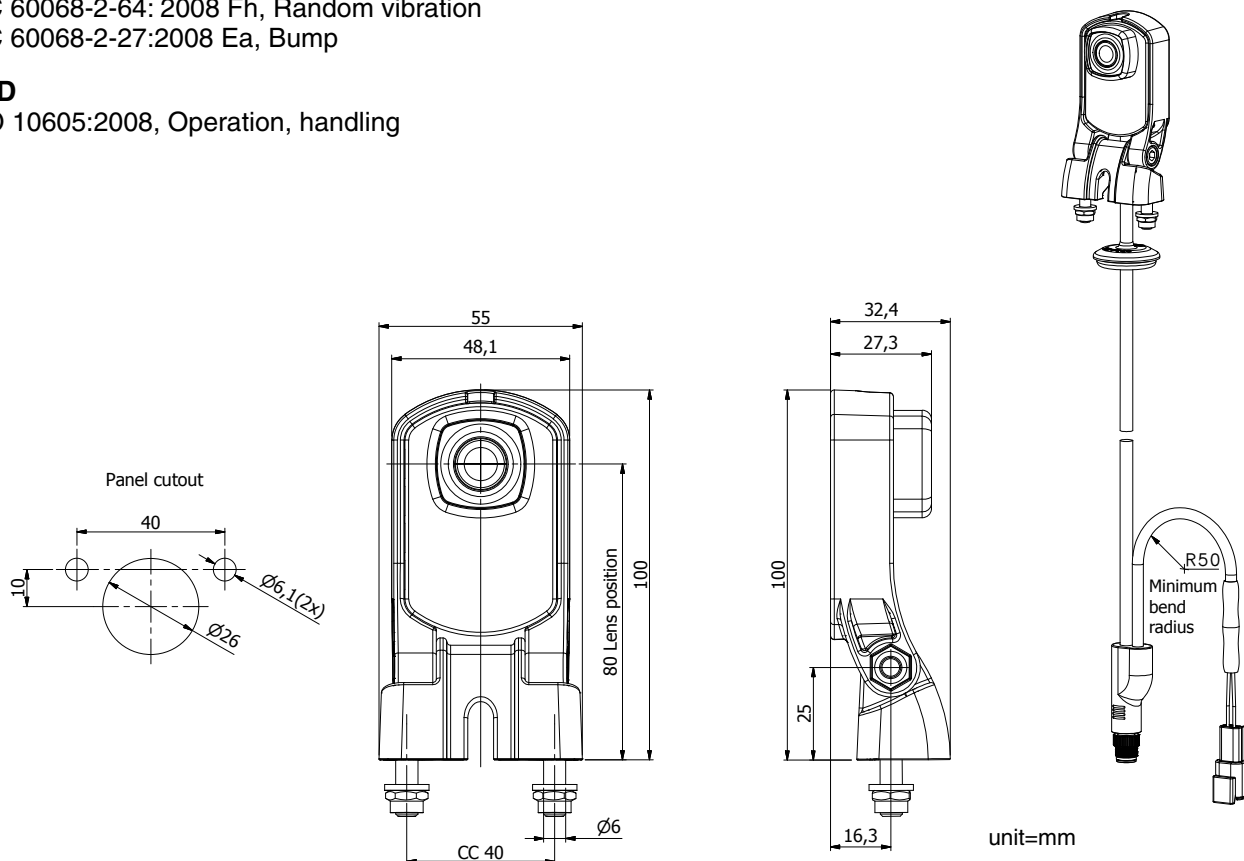
IEC 60068-2-64: 2008 Fh, Random vibration
 IEC 60068-2-27:2008 Ea, Bump

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

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