



Smart cameras

IVC-2D, RS-485 Fast Ethernet (10/100 Mbit/s):
TCP/IP, UDP/IP, EtherNet/IP OPC server included
, IVC-2D R

IVC-2DR1111



Model Name > [IVC-2DR1111](#)
Part No. > [1040057](#)



At a glance

- Suitable for advanced inspections and measurements
- Flexible working distance and field of view
- Stand-alone operation, no PC needed
- IP 65 rating
- Easy-to-use interface with more than 110 software tools
- Simple interfacing with PLCs, robots and control systems that support EtherNet/IP or OPC
- Available in three different resolutions from fast VGA (0.3 MP) to high-resolution UXGA (1.9 MP)

Your benefits

- The IVC-2D's flexibility ensures optimal setup for individual application needs
- The 1.9 MP resolution enables inspection of fine details with high repeatability
- IP 65 rating makes the system suitable for industrial environments
- Easy-to-use interface ensures fast application development, saving time and reducing costs
- The camera's OPC server and EtherNet/IP interface enable easy integration with PLCs, robots and control systems
- Stand-alone operation reduces installation complexity compared to PC-based vision
- A wide range of camera-controlled lighting makes it easy to create a complete solution



Features

Task:	Positioning Inspection Reading Measuring
Technology:	2D, Image analysis, Snapshot
Example field of view (H x W):	See Field of view diagram
Offline support:	Emulator
Spectral range:	Ca. 400 nm ... 750 nm

Performance

Image sensor:	1/3" CCD, electronic shutter
Processor:	150 MHz
Memory:	16 MB flash, 64 MB RAM

Maximum performance:	30 Hz
Resolution:	640 px x 480 px

Interfaces

Operator interfaces:	Application specific operator interfaces can be created using ActiveX (COM) or as web page. Included OPC server enables data exchange with e.g. SCADA systems.
Configuration software:	IVC Studio
Data store and retrieve:	Images and data can be stored to and retrieved from flash and external FTP servers
Communication interfaces:	RS-485 Fast Ethernet (10/100 Mbit/s): TCP/IP, UDP/IP, EtherNet/IP OPC server included
Digital inputs:	4 program controlled inputs (1 trigger input), HIGH = 10 V ... 28.8 V
Digital outputs:	3 B-type program controlled outputs Total output load < 100 mA Trigger output

Mechanics/electronics

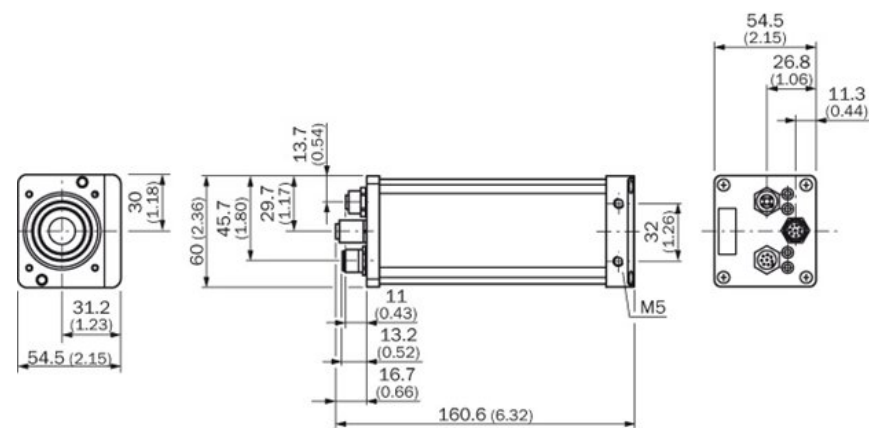
Connectors:	M12, 4-pin female connector, D-coded (Ethernet) M12, 8-pin female connector (RS-485) M12, 8-pin male connector (power I/O)
Connector material:	Nickel plated brass
Supply voltage:	24 V DC ± 20 %
Power consumption:	< 400 mA Without output load
Ripple:	< 5 Vpp
Enclosure rating:	IP 54 IP 65 with lens protection hood
Protection class:	II, III
Housing material:	Anodized aluminum
Weight:	505 g
Dimensions (L x W x H):	161 mm x 60 mm x 55 mm
Optics:	C or CS-mount

Ambient data

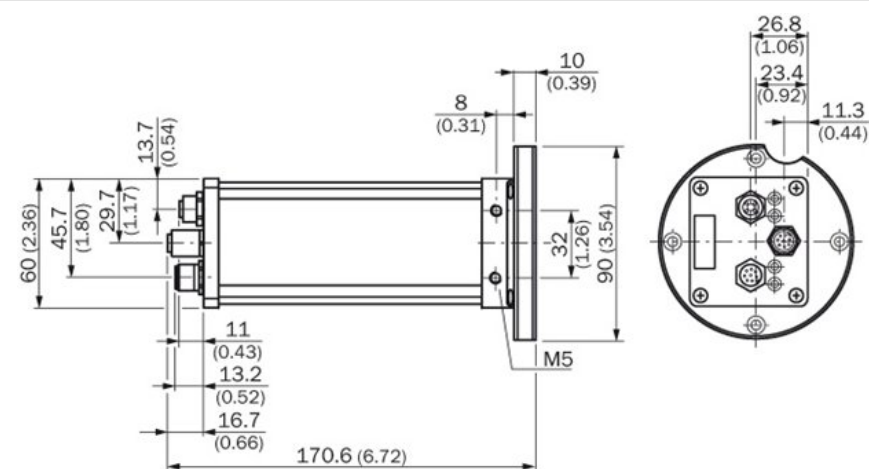
Shock load:	15 g, 3 x 6 directions
Vibration load:	5 g, 58 Hz ... 150 Hz
Ambient operating temperature:	0 °C ... 50 °C ¹⁾
Ambient storage temperature:	-20 °C ... 70 °C ²⁾

^{1) 2)} Relative humidity: 35 % ... 85 %, 95 % at storage

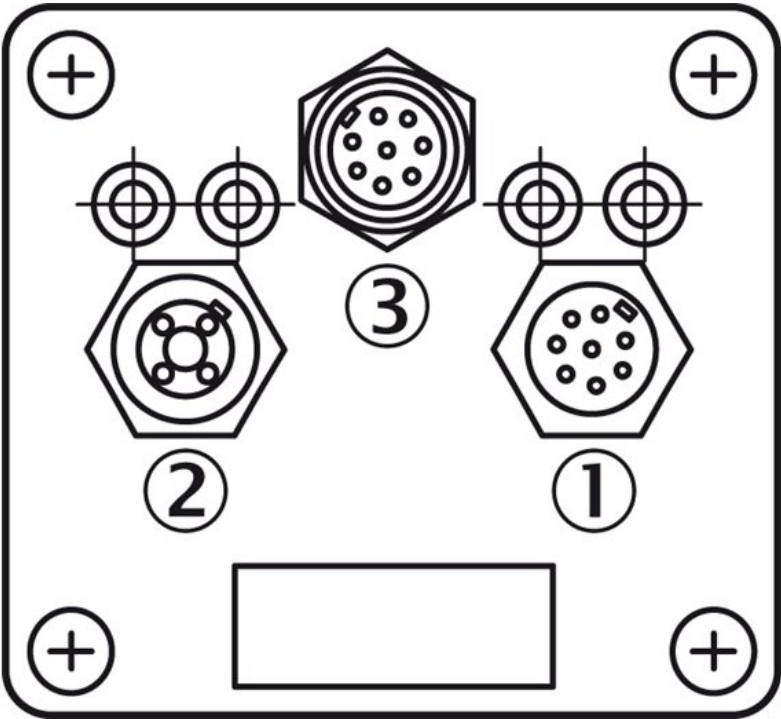
Dimensional drawing



Dimensional drawing with adapter plate for ring light

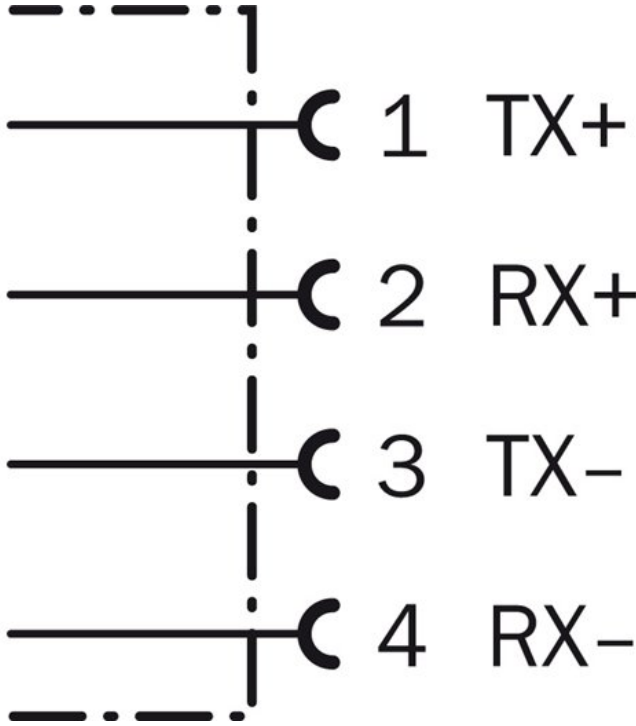


Connection type

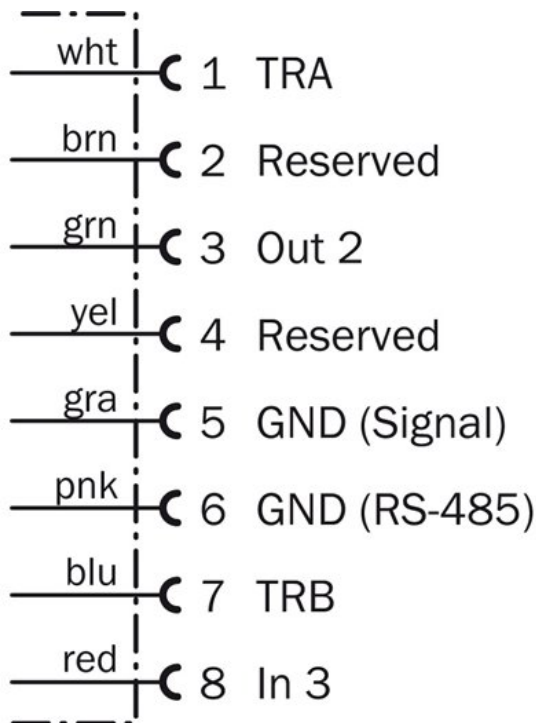


- |1| Power I/O: M12, 8-pin, male (illumination trigger output)
- |2| Ethernet: M12, 4-pin, D-coded, female
- |3| M12, 8-pin female connector (RS-485)

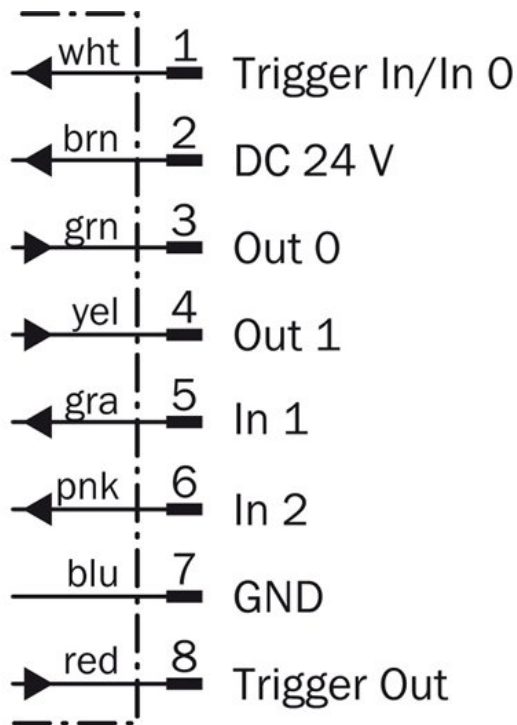
Connection diagram Ethernet



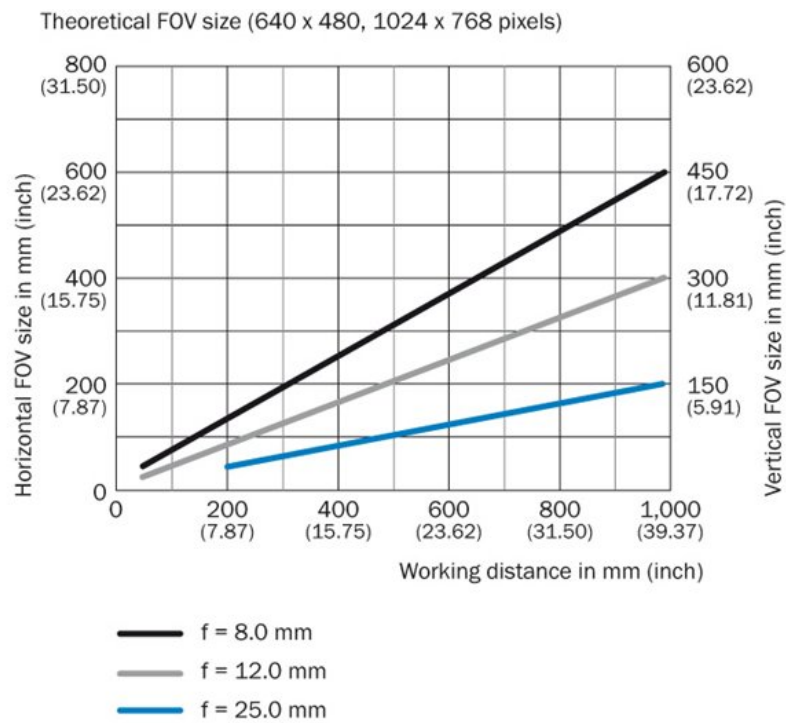
Connection diagram RS-485



Connection diagram Power I/O



Field of view



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