



2D vision  
IVC-2D, IVC-2D R

IVC-2DR1111



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

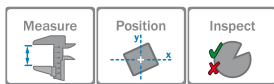


**At a glance**

- 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:	Inspection Measuring Positioning
Technology:	2D Image analysis Snapshot
Spectral range:	Ca. 400 nm ... 750 nm
Offline support:	Emulator
Sensor resolution:	640 px x 480 px, 640 px x 480 px
Example field of view (H x W):	See Field of view diagram

**Performance**

Maximum performance:	30 Hz
Processor:	150 MHz
Image sensor:	1/3" CCD, electronic shutter
Memory:	16 MB flash, 64 MB RAM

## Interfaces

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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.
Data store and retrieve:	Images and data can be stored to and retrieved from flash and external FTP servers
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
Ethernet:	✓
Function (Ethernet):	OPC DA Server
Data transmission rate (Ethernet):	10/100 Mbit
Protocol (Ethernet):	TCP/IP, UDP, EtherNet/IP
Configuration software:	IVC Studio
Serial (RS-485):	1

## Mechanics/electronics

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Connectors:	M12, 4-pin female connector, D-coded (Ethernet) M12, 8-pin female connector (RS-485) M12, 8-pin male connector (power I/O)
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
Housing material:	Anodized aluminum
Dimensions (L x W x H):	161 mm x 60 mm x 55 mm
Optics:	C or CS-mount
Protection class:	II, III
Weight:	505 g
Connector material:	Nickel plated brass

## Ambient data

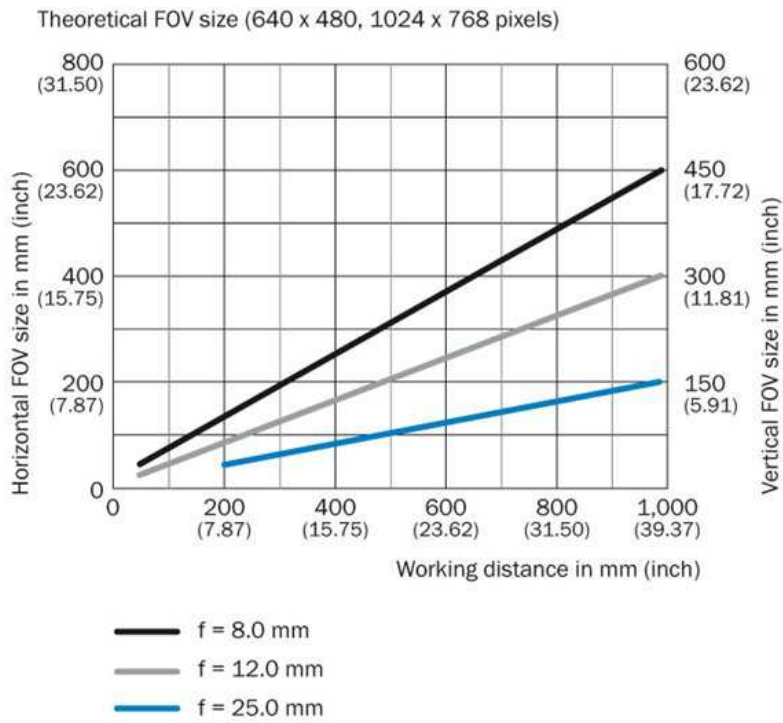
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Shock load:	15 g, 3 x 6 directions
Vibration load:	5 g, 58 Hz ... 150 Hz
Ambient operating temperature <sup>1)</sup> :	0 °C ... +50 °C
Ambient storage temperature <sup>2)</sup> :	-20 °C ... +70 °C

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



## Field of view



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