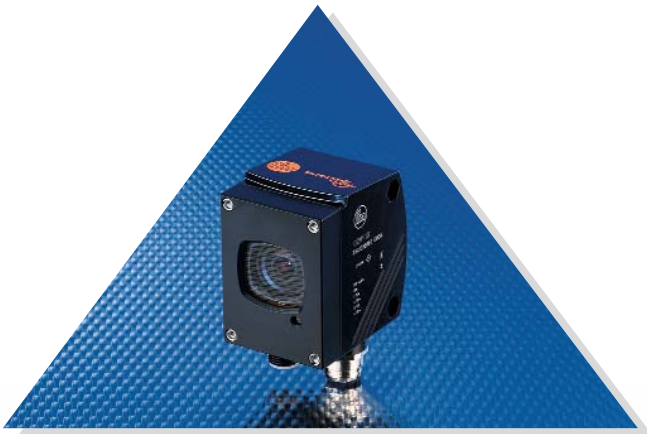




# Camera system O2M for mobile vehicles.



## Ethernet interface for easy device connection.

- ▲ Can be used as a rear view camera using its selectable image mirror function.
- ▲ Operates all year due to temperature-controlled window heating.
- ▲ Sealed, robust metal housing.
- ▲ Programming and parameter setting interface for CoDeSys 2.3.
- ▲ e1 type approval of the German Federal Office for Motor Traffic.



### Ethernet camera for mobile applications.

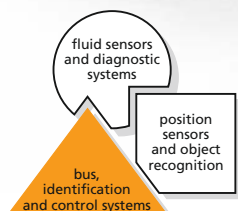
In almost all mobile vehicles, users today use displays for indicating vehicle information. At the same time camera systems monitor the operating areas in an increasing number of applications.

The new camera system O2M can be directly connected to the PDM360 dialogue monitors with graphic capability and colour display using integrated Ethernet interfaces. This eliminates the need for a separate monitor. Via user-friendly parameter setting and control functions from the CoDeSys application library, image transmission and display are adapted to the requirements of the mobile vehicle.

The robust IP 69K housing enables mounting outside the vehicles and machines.



O2M Ethernet camera on a refuse truck





**Functions and advantages**

• **Mechanical structure**

The Ethernet camera O2M has a fully sealed diecast zinc housing to the protection rating IP 69K. The two integrated M12 connectors provide all important connections for supply and communication. The device can be mounted directly onto the mobile vehicle via an adapter system.

With temperature-controlled window heating the camera objective can be defrosted in case of extreme weather conditions.

• **Camera electronics**

The modern CMOS sensor, the powerful controller and the integrated firmware are the basis for image capture and processing. So the user can set, for example, white adjustment and colour saturation individually, if necessary.

• **Additional functions for digital image capturing**

The digital capturing and transmission of the image data enable scaling and free positioning of the camera image. With a splitscreen representation, up to four camera images can be simultaneously displayed on the PDM360 dialogue monitor.

In addition, the PDM360 can be used to store individual images on a compact flash card. They can, for example, be used for protocolling.

• **Parameter setting with IEC 61131-3 functions**


Parameter setting of the camera functions and data transmission are done directly from the PDM360 application programmed with CoDeSys.

Using function blocks, the displayed camera images can be mirrored, rotated, zoomed and scaled. If necessary, visualisation elements and the camera image can be shown simultaneously.

• **Ethernet interface**

The O2M camera is fitted with an Ethernet interface for communication. In contrast to analogue camera systems, the camera image can be shown on any number of displays via a simple Ethernet hub or switch. It is also possible to connect several O2M cameras to a display in this way.

**Accessories**

Type	Description	Order no.
	Stainless steel mounting set for rod mounting Ø 12 mm	<b>E2D110</b>




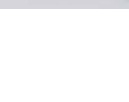

**Products**

Description	Order no.
Ethernet camera for mobile applications	<b>O2M110</b>

**Technical data**

Ethernet camera O2M		
Housing		diecast zinc, cathodic dip coating
Housing front		mineral glass
Device connection		M12 connector for supply (A-coded) and Ethernet (D-coded)
Protection		IP 69 K / III
Operating voltage	[V DC]	8...32
Power consumption	[VA]	< 4 (without window heating)
Temperature range (storage/operation)	[°C]	-40...85 / -30...75
Sensor		CMOS colour image sensor, 1/4 VGA 320 x 240 pixels
Operating distance / field of view size		1 m / 2 m x 1.3 m 2 m / 4 m x 2.6 m 5 m / 10 m x 6.6 m
Image repetition rate	[fps]	≤ 15
Interface		Ethernet 10 Base-T / 100 Base-TX
Protocol / data format		UDP/IP 8-bit Windows® Bitmap / QVTA
Standards and tests (extract)		CE, e1 (RL 05/49/EC)

**Connectors and splitter boxes**

Type	Description	Order no.
	Ethernet connection cable, M12 connector D-coded, RJ45 (cross-link)	<b>E11898</b>
	Socket, M12, 2 m black, PUR cable	<b>EVC001</b>
	Socket, M12, 5 m black, PUR cable	<b>EVC002</b>
	Socket, M12, 2 m black, PUR cable	<b>EVC004</b>
	Socket, M12, 5 m black, PUR cable	<b>EVC005</b>

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