

Robust camera system O2M for mobile machines



For universal use with analogue video output

- Encapsulated, weather-proof aluminium housing with IP 68 / IP 69K
- High shock and vibration resistance
- Temperature-controlled lens heating
- Automatic brightness adjustment
- E4 type approval




Heavy-duty universal cameras

Work area and rear area monitoring are becoming more and more important for mobile machines. The O2M camera system with analogue video output (PAL) is designed for particularly difficult conditions and excels thanks to its pressure-resistant housing and a light sensitivity of < 0.25 lux.

The new O2M camera system can, for instance, be directly connected to the graphic PDM360 dialogue modules with colour display and analogue interface. This makes it possible to use the dialogue module not only to display machine information but also images of up to two cameras. Consequently, no separate monitor is needed.





Type	Type of sensor	Horizontal x vertical PAL resolution [pixels]	Angle of aperture [°]	Mirror function	Order no.
CMOS camera · lens heating · 0.5 m connection cable with M16 connector					
	1/4" 4:3 VGA CMOS Image sensor Color	640 x 480	78	–	O2M200
	1/4" 4:3 VGA CMOS Image sensor Color	640 x 480	78	Integrated	O2M201
	1/4" 4:3 VGA CMOS Image sensor Color	640 x 480	115	–	O2M202
	1/4" 4:3 VGA CMOS Image sensor Color	640 x 480	115	Integrated	O2M203

Accessories

Type	Description	Order no.
Mounting accessories		
	Protective metal cover	E2M212
	Dome fixture	E2M211
	Vibration damper set	E2M213
	Replacement fixture	E2M210

PDM360 NG, 7" colour display

	Touch screen, 9 function keys, navigation keys, 2 x analogue video input	CR1082
	9 function keys, navigation keys, 2 x analogue video input	CR1085
	8 function keys, 2 x analogue video input	CR1083
	9 function keys, encoder, 2 x analogue video input	CR1084

Connection cable

M16 plug to M16 socket, 5 m black, PVC cable	E2M203
M16 plug to M16 socket, 11 m black, PVC cable	E2M204
M16 plug to M16 socket, 16 m black, PVC cable	E2M205

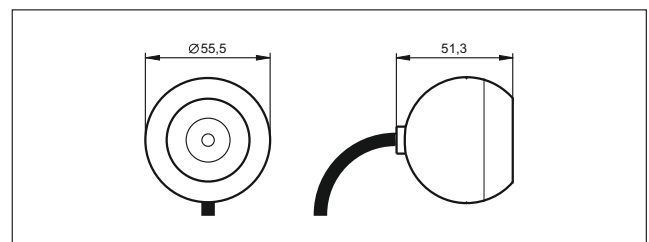
Adapter cables

M12 plug to M16 socket, black, PVC cable. To connect a camera to the PDM NG	E2M200
M12 plug to 2 x M16 socket, black, PVC cable. To connect two cameras to the PDM NG	E2M201

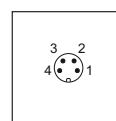
Common technical data

Operating voltage	[V DC]	8...32
Current consumption	[mA]	< 150 (incl. lens heating)
Shock resistance	[g]	50
Vibration resistance	[Grms]	15.3
Light sensitivity	[lux]	< 0.25
Dynamic range	[db]	> 70
Image repetition rate	[fps]	50 / interlaced PAL 25
Protection		IP 68 / IP 69K
Ambient temperature	[°C]	-40...85
Storage temperature	[°C]	-40...125
Housing material	Front pane	Aluminium, black anodised
Front lens material		Float glass, chemically hardened, reinforced
Connection		Connection cable 0.5 m with M16 connector
Standards and tests (extract)		CE, E4 (RL 2009/19/EG)

Dimensions



Wiring diagram



M16 connector
Pin 1: Coax cable core (video signal)
Pin 2: Coax screen (video GND)
Pin 3: U+
Pin 4: 0 V

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