



Industrial imaging

Robust 7.0" TFT LCD monitor for mobile machines



Monitor for camera systems



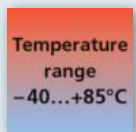
Universal display of analogue video signals

Water/weather-proof housing with protection rating IP 66 / IP 67

PAL/NTSC video system

Direct connection of up to 2 or 4 cameras via video switch

Supply voltage of 18...30 V DC



Plug and play monitor for a better overview

For most mobile machines, a 360° view or at least the surveillance of blind spots would be impossible without camera monitor systems. Besides the robust O2M2 and O3M2 cameras, ifm now offers suitable plug and play monitors.

Optimised for mobile machines

The water-proof monitor series automatically adapts to different ambient light situations. The WVGA display features automatic brightness control with adjustable day/night switching. All settings can be made via the comprehensive service menu, e.g. automatic camera switching when the driver indicates or goes to reverse.

In combination with the smart O3M2 3D camera, the monitor can also be used to indicate obstacles in the path or show vehicle information (supplied by the CAN bus).










Features and benefits


Easy-to-use

The preconfigured system only requires supply voltage to be ready for use. The cameras are connected via M16 connectors, they are automatically recognised and immediately provide an image to the monitor. No configuration is required for standard operation.


Accessories

Type	Description	Order no.
Mounting accessories		
	Anti-glare frame large, elastic.	E2M233
	Anti-glare frame small (supplied with each monitor)	E2M234
	Video switch for connection of 3 further cameras	E2M235
	RAM mount mounting bracket 90 mm	E2M236
	RAM mount mounting bracket 144 mm	E2M237
	RAM mount mounting plate	E2M238
	Monitor bracket – complete set	E2M239






Analogue camera, PAL video output, lens heating 0.5 m connection cable with M16 connector

	Angle of aperture 78°	O2M200
	Angle of aperture 78°, integrated mirror function	O2M201
	Angle of aperture 115°	O2M202
	Angle of aperture 115°, integrated mirror function	O2M203

3D smart camera with PAL video output M12 connector

	Angle of aperture 2D: 90° / 3D: 70° x 23°	O3M251*
	Angle of aperture 2D: 120° / 3D: 95° x 32°	O3M261*

Jumper cables

	5 m black, PVC cable, M16 connector / M16 socket	E2M203
	11 m black, PVC cable, M16 connector / M16 socket	E2M204
	16 m black, PVC cable, M16 connector / M16 socket	E2M205
	21 m black, PVC cable, M16 connector / M16 socket	E2M206
	Adapter cable for the connection of O3M2 3D cameras	E3M161

Robust design



The monitor series is made of aluminium and impact and weather resistant plastic. They are suitable for use in the cabins of trucks, cranes and fork-lift trucks as well as in the open cabins of construction machines. All systems feature an undervoltage, overvoltage and reverse polarity protection.

Vast setting options

The service menu offers many setting options for an ideal integration in mobile machines. Via the digital inputs, the cameras can for example be activated automatically.

The background illumination can be adjusted freely and automatically to the ambient light via a photoelectric sensor. Brightness and contrast values can be set manually. Optimum visibility in dark environments via a red or blue night mode. Additionally, it is possible to display horizontal and vertical reference lines or a grid, e.g. as a positioning or parking assistance.

The products

Type	Description	Order no.
7.0" TFT LCD monitor with LED backlight, resolution: WVGA 800 x RGB x 480		
	Direct connection of an O2M2 or O3M2 smart camera. 1 video input	E2M231
	Direct connection of O2M2 cameras and / or O3M2 smart cameras. 2 video inputs	E2M232

Further technical data

Housing	Aluminium, impact resistant plastic, black
Device connection	M16 connector, open cable end
Protection	IP 66, IP 67
Operating voltage	[V DC] 18...30
Power consumption	[W] Max. 12
Temperature range operation/storage	[°C] -40...85 / -40...125
Lifetime LED	30,000 hrs
Background illumination	600 cd/m ²
Video input	PAL 50 Hz / NTSC 60 Hz
Number of video inputs with E2M235 video switch	3 (E2M231) 4 (E2M232)
Digital inputs for camera switching via connection cable	5
Standards and tests	CE

* Further accessories required. See www.o3m.ifm