Log stacker

EFFICIENT MATERIAL HANDLING DUE TO RADIO SYSTEMS

Log stackers are used for mobile wood handling. When loading logs, a camera mounted above the conveyor belt transmits the images via radio to the monitor of the log stacker.

The driver always has the conveying process or the filling level in view. He can therefore detect material jams or foreign objects at an early stage and thus reduce idle times.

The system can be extended by a camera that is automatically activated when reversing the vehicle.

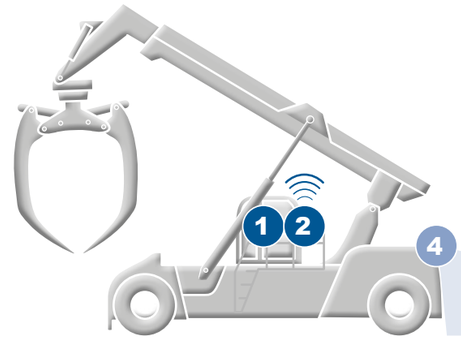




MC3000B for monitoring the filling level of a wood container.

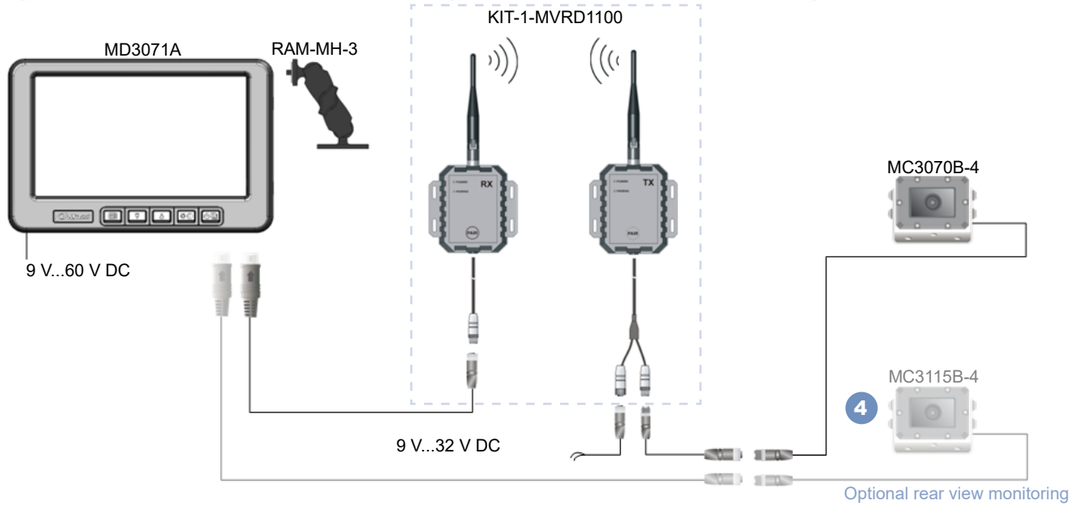






EXAMPLE

1	2	3
MD3071A **Heavy-duty 7" monitor**	**KIT-1-MVRD1100** **Digital wireless system**	**MC3000B** **Heavy-duty camera**



Empty container handler

CONTAINER HANDLING

The cameras support the driver when loading containers. The monitoring of the twistlocks enables a faster and more secure positioning.

The system can be extended by an automatically activated 180° rear view camera, which significantly facilitates manoeuvring processes.







Twistlock camera for safe container handling.



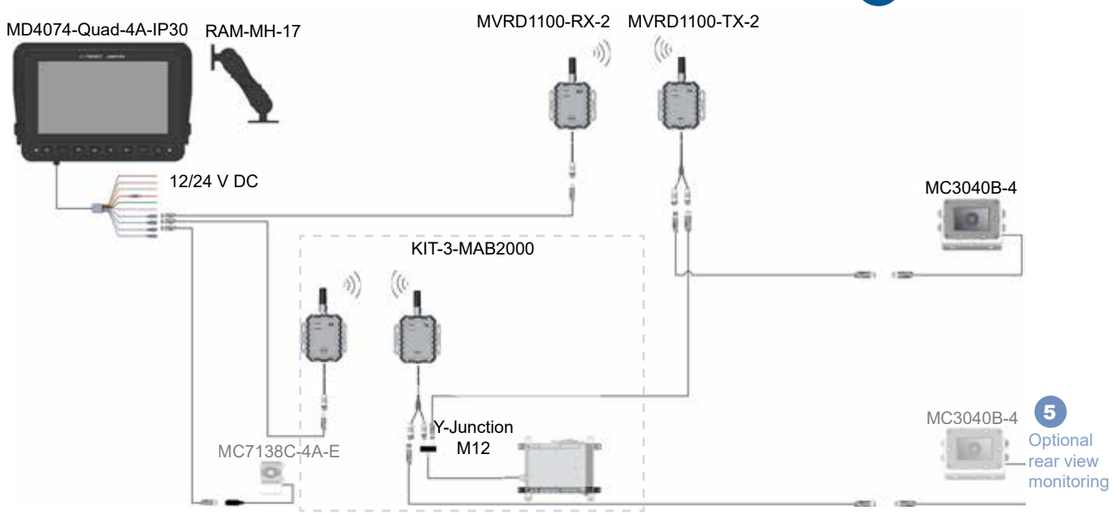


EXAMPLE

MD4074-Quad
Heavy-duty 7" monitor

KIT-3-MAB2000
Digital radio system

MC3000B
Heavy-duty camera



Straddle carrier

SAFE AND FAST HANDLING OF CONTAINERS

At a height of up to 15 meters, the drivers have the best view forward and into the loading zone. However, the rear view is difficult and the mast cannot be positioned precisely from that height.

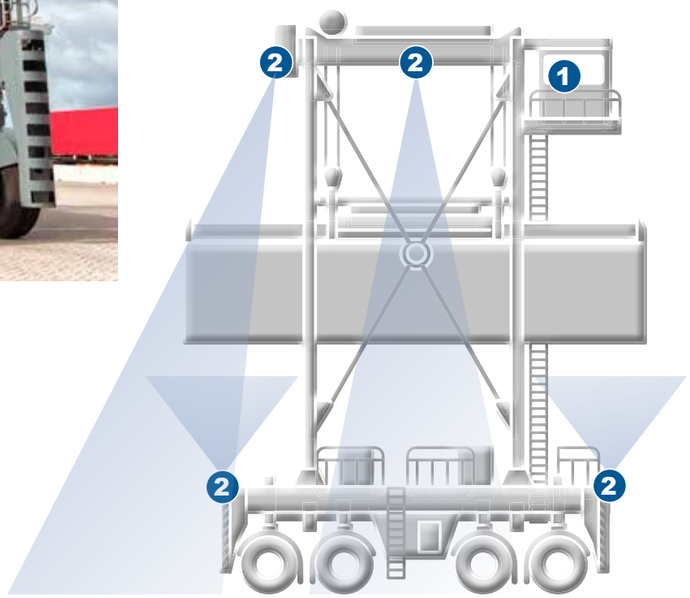
Motec cameras help the driver to see the rear and lateral area. The cameras help to assess distances and recognise persons or obstacles in the danger area well in time. 2 additional cameras provide an optimal view of the twistlocks.

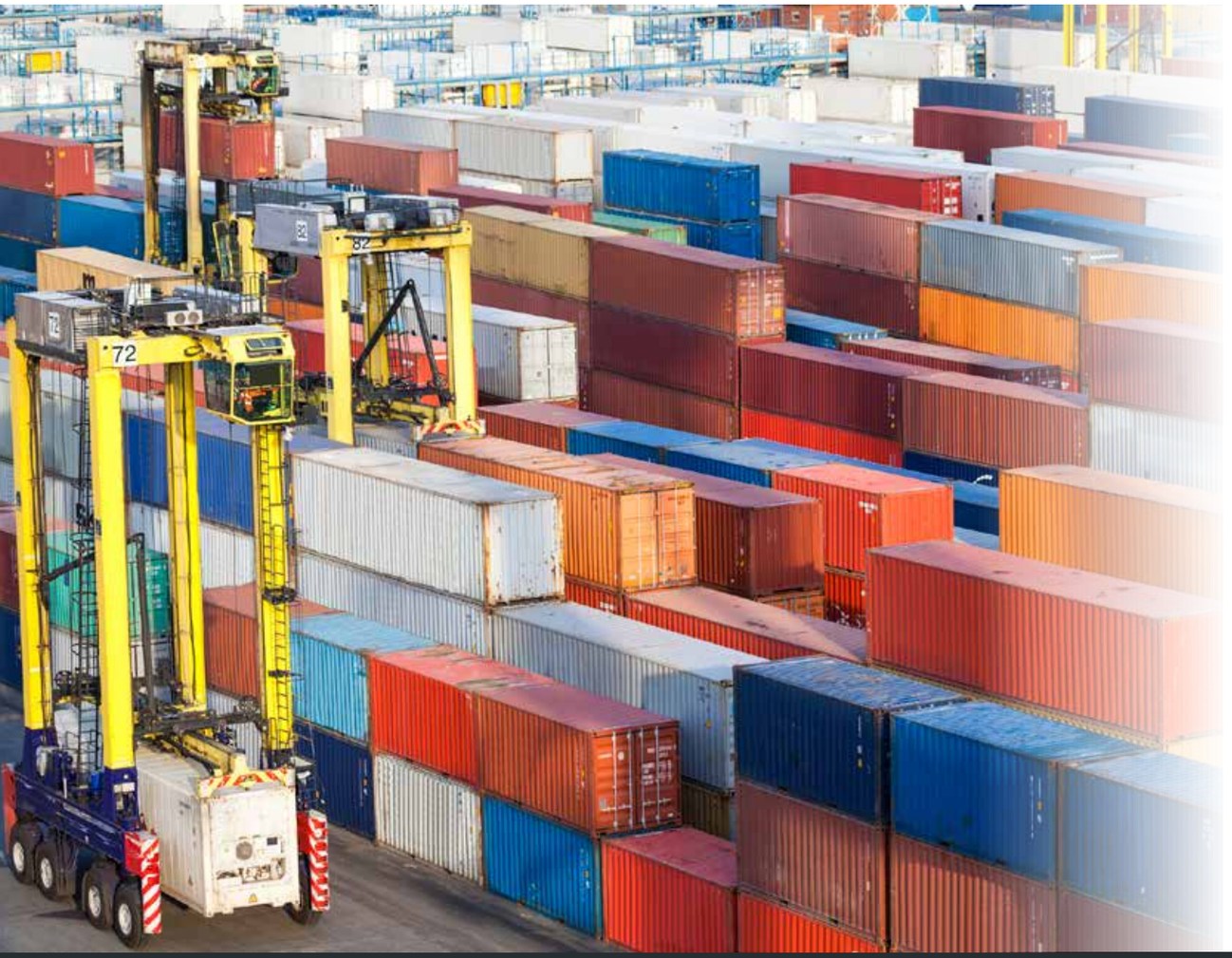
The images are transferred to 2 monitors so that the driver can position the containers in a millimetre-accurate manner and can safely move around.





Lateral monitoring from great heights with Motec camera monitor systems.

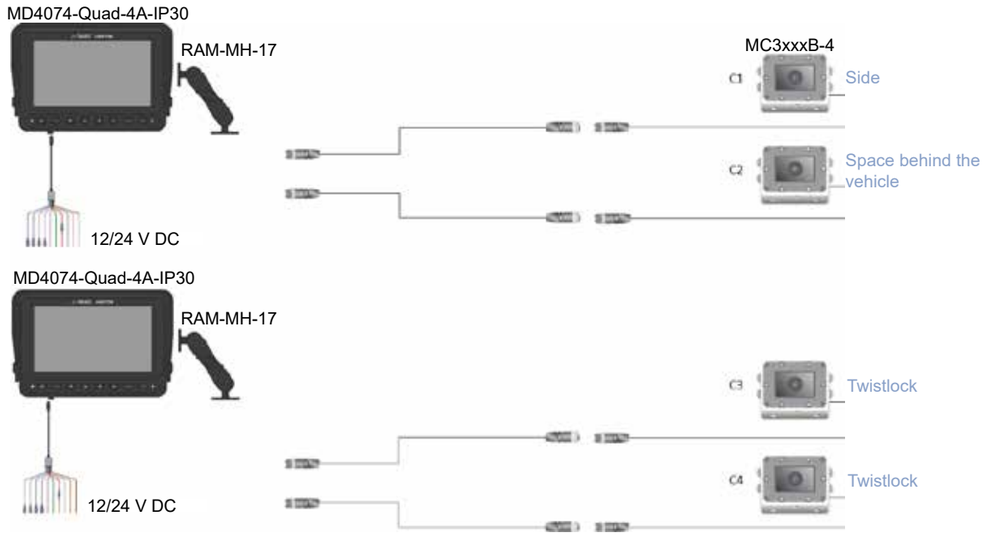




EXAMPLE

1 MD4074-Quad-IP30
Heavy-duty 7" monitor

2 MC3000B
Heavy-duty camera



Reach stacker

PIGGYBACK SPREADER

With the piggyback spreader, a reach stacker picks up the entire semi-trailer, which considerably simplifies the transport change between rail and road.

The cameras support the driver when recording the trailers. By monitoring the twistlocks, a faster and safer positioning is possible.

The system can be extended with an automatically activated reversing camera, which makes maneuvering much easier.

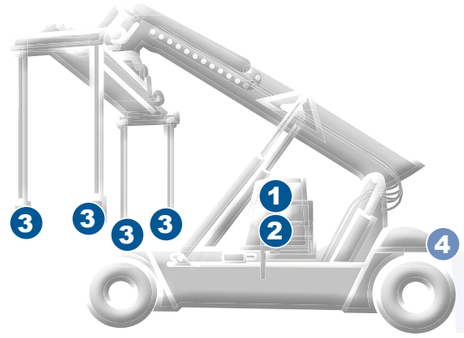




The cameras are mounted at the bottom of the 4 foldable lift legs. When gripping the swap bodies they allow an optimal view.

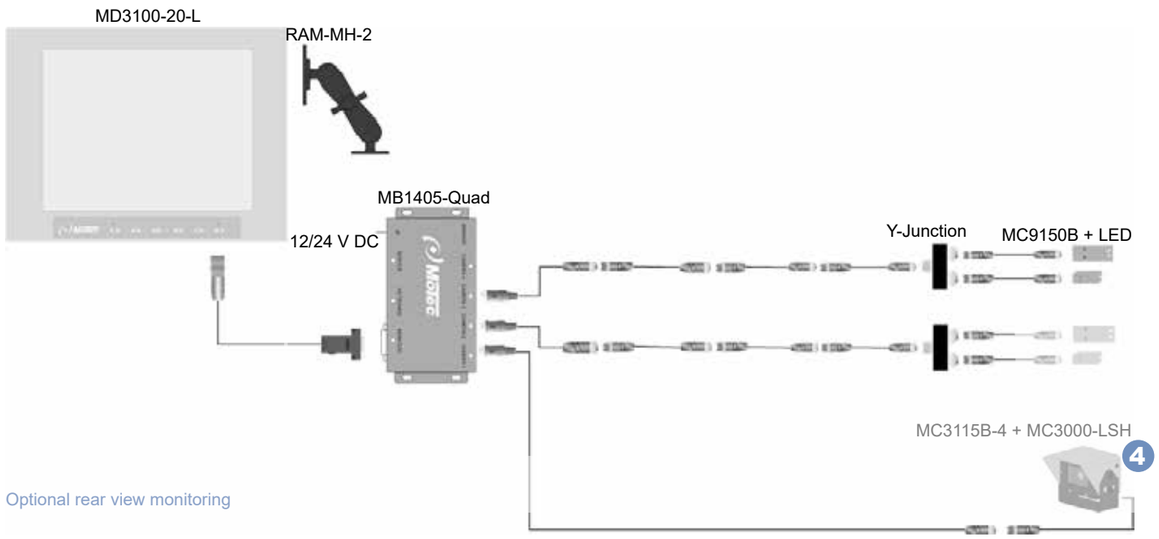






EXAMPLE

1	2	3
MD3100 **Heavy-duty 10,2" monitor**	**MB1405-Quad** **Video control unit**	**MC9150B** **camera with LED**



Optional rear view monitoring

Container bridge

CONTAINER HANDLING

Due to the design, the driver has only limited visibility to the rear and front of the vehicle. The risk of a collision with people, trucks or other obstacles is very high. An intelligent camera monitor system surveys the travel path in all directions and simultaneously displays up to 4 camera images on a single monitor. The image is transmitted via digital radio signals.

It is possible to switch the camera automatically between the front/rear area and the twistlocks.

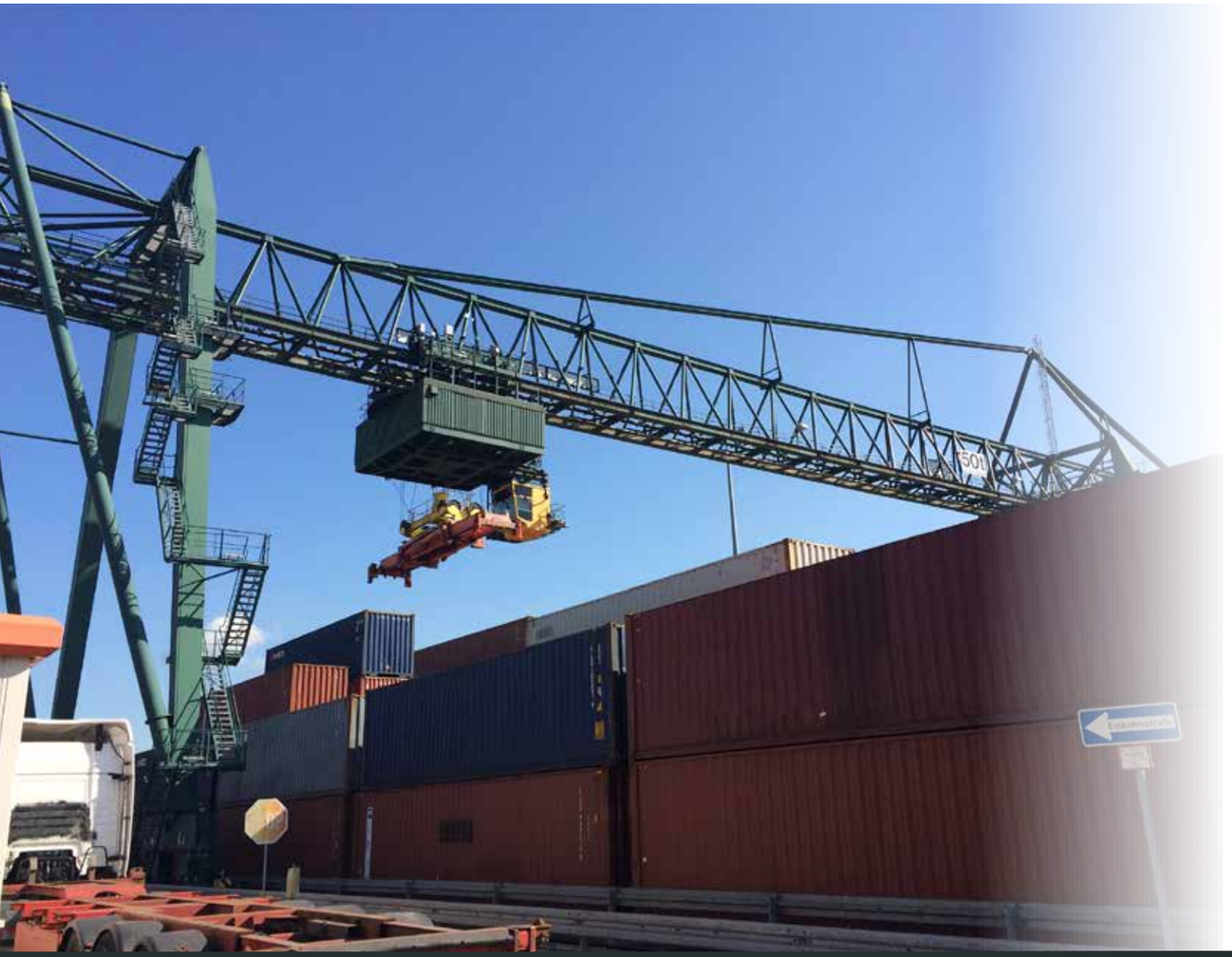






Twistlock camera in use during container handling.



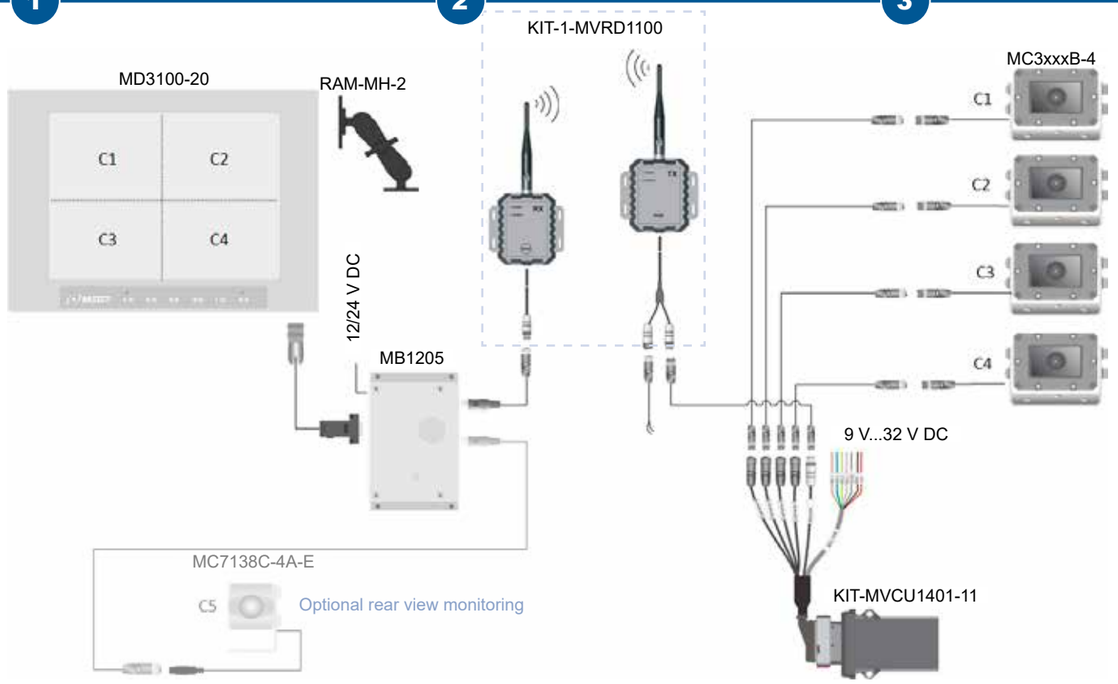


EXAMPLE

MD3100
Heavy-duty 10,2" monitor

KIT-1-MVRD1100
Digital wireless system

MC3000B
Heavy-duty camera



Optional image transmission via fibre optic cable (FOC) or twisted-pair converter.

Digital cameras

FORK CARRIAGE | REAR VIEW AND WORKSPACE MONITORING



MCDE7000A
Ethernet camera

The MCDE7000A digital camera is a very compact 100 Mbit/s Ethernet camera suitable for mobile use in IEEE 802.3 (LAN) networks. Equipped with a wide range of image angles, configurable resolution up to Full HD and wide dynamic range (HDR), it is used in a variety of applications, such as integration into existing video surveillance systems or video streaming over long distances.



MCDB7000A
BroadR-Reach camera

The MCDB7000A is a BroadR-Reach camera suitable for mobile use. It can be utilised in networks compliant with IEEE 802.3 (LAN). Fitted with a high optical dynamic range (HDR) it is used in a variety of applications. For example, it can be integrated into existing video monitoring systems or used for video streaming across large distances.



MCDL7000-FullHD
LVDS camera

The MCDL7000A is a compact 2.3 megapixel camera for mobile use. The LVDS interface transmits uncompressed raw data at speeds up to 3 Gbit/s without quality loss. LVDS cameras are used in OEM applications that require high-speed serial transmission, such as video streaming, 360° panoramic systems, stereo cameras or AI applications.



MCDE3000-FullHD-PoE
Rugged Ethernet camera

The MCDE3000-FullHD-PoE is a FullHD Ethernet camera suitable for mobile use. It can be utilised in networks compliant with IEEE 802.3 (LAN). Fitted with intelligent image processing, a high optical dynamic range (HDR) and dynamic overlays, it functions as a smart sensor in a variety of applications. For example, it can be integrated into existing video monitoring systems or used for video streaming across large distances.



MCDB9000-FullHD
BroadR Reach camera

The MCDB9000-FullHD is a mobile, very compactBroadR-Reach-Camera operating in networks according to IEEE 802.3 (LAN). Equipped with Full-HD resolution, a large dynamic range (HDR) and adjustable overlays it acts as a smart sensor in a variety of applications, such as integration into existing video surveillance systems or video streaming over long distances. The videostream can be configured via customer-specific control protocols.

Digital monitors

MULTIFUNCTIONAL MONITORS FROM 7" TO 12"



MDDE1072
7" digital monitor

The MDDE1072 is a 7" digital monitor used in IEEE 802.3 (LAN) networks on mobile machines as well as in industrial environments. Due to its robust electrical and mechanical design, the MDDE1072 is specially designed for use in harsh environments with high mechanical loads or environmental influences.



MDDE1102
10" digital monitor

The MDDE1102 is a 7" digital monitor used in IEEE 802.3 (LAN) networks on mobile machines as well as in industrial environments. Due to its robust electrical and mechanical design, the MDDE1102 is specially designed for use in harsh environments with high mechanical loads or environmental influences.



MDDE1122
12" digital monitor

The MDDE1122 is a 7" digital monitor used in IEEE 802.3 (LAN) networks on mobile machines as well as in industrial environments. Due to its robust electrical and mechanical design, the MDDE1122 is specially designed for use in harsh environments with high mechanical loads or environmental influences.



MDDE3084
8" Smart Display

The MDDE3084 8” Smart Display with Advanced Driver Assistance Systems (ADAS) is designed to revolutionize your vehicle’s interface. This innovative smart display seamlessly consolidates machine monitoring, camera functions, and ADAS into a single, cohesive unit, offering a streamlined and efficient solution for modern mobile machinery.



MDDE3124
Smart 12,3" Instrumenten Cluster

The MDDE3124 12.3” Smart Instrument Cluster with Advanced Driver Assistance Systems (ADAS) is designed to revolutionize your vehicle’s interface. This innovative instrument cluster seamlessly consolidates machine monitoring, camera functions, and ADAS into a single, cohesive unit, offering a streamlined and efficient solution for modern mobile machinery.

TVI cameras & monitors

FORK CARRIAGE | REAR VIEW AND WORKSPACE MONITORING



MCT7180-34-MH2
TVI wide angle camera

The MCT7180-34-MH2 is an HD-TVI wide-angle camera for heavy-duty 270°/360° surround view applications. The 190° angle of view and the small design allow it to be adapted to a wide variety of vehicles and visibility problems. The TVI camera is also ideally suited for heavy-duty use as a standalone camera thanks to its high-pressure cleanerproof housing.



MDT4070
7" TVI monitor

The MDT4070 is a robust mobile TVI monitor for heavy-duty applications. Thanks to HD-TVI technology, the monitor delivers brilliant images in HD quality. The screen can be operated in 5 different languages.



MDT4071-IP30
7" TVI monitor

The MDT4071-IP30 monitor is a mobile TVI monitor for heavy-duty applications. Thanks to HD-TVI technology, it delivers brilliant images in HD quality. An integrated loudspeaker transmits warning tones, e.g. from a connected assistance system. The monitor can be operated in 5 different languages.



MDT4101-IP30
10" TVI monitor

The MDT4101-IP30 monitor is a mobile TVI monitor for heavy-duty applications. Thanks to HD-TVI technology, it delivers brilliant images in HD quality. An integrated loudspeaker transmits warning tones, e.g. from a connected assistance system. The monitor can be operated in 5 different languages.

AI cameras & monitors

CAMERAS AND MONITORS FOR PERSON DETECTION SYSTEMS



MCT3158-AI-4A
TVI AI wide angle camera

The MCT3158-AI-4A is an intelligent camera based on AI with HD-TVI image quality. The compact camera is designed and manufactured as an object detection camera to recognise various objects such as people, motorbikes, bicycles/buses, trucks, etc. Its compact shape is perfect for use in large heavy-duty vehicles.



MCT3158-AI-4A-LED
TVI AI LED w/a camera

The MCT3158-AI-4A-LED is an intelligent camera based on AI with HD-TVI image quality. The LED's are available in infrared or white ligth. The compact camera is designed and manufactured as an object detection camera to recognise various objects such as people, motorbikes, bicycles/ buses, trucks, etc. Its compact shape is perfect for use in large heavy-duty vehicles.



MDT4074-AI
7" TVI AI monitor

The TVI system monitor is a rugged, high performance HD monitor for applications that use artificial intelligence, such as person detection systems. Different image modes can be displayed on the screen and up to 4 camera images can be displayed simultaneously, including interval controlled image switching.



MDT4104-AI
10" TVI AI monitor

The TVI MDT4104-AI is a rugged, heavy-duty, HD resolution monitor designed for artificial intelligence applications such as people detection systems. Different image modes can be displayed on the screen and up to 4 camera images can be displayed simultaneously, including interval-controlled image switching.

Analog cameras

FORK | FORK CARRIAGE



MC9000B
Fork-mounted camera

The MC9050B fork camera is designed especially for forklift trucks and is mounted to the inside of the fork. This places the camera at the eye level of the pallet. Based on its pinhole size opening in the housing, the lens is protected from damage that may be caused by lattice boxes or pallets



MC9150B
Pinhole camera

The MC9150B is designed for mounting on the fork carriage, fork bend and spreader. The 50° viewing angle makes it possible to observe both forks. Based on its pinhole size opening in the housing, the lens is protected from damage that may be caused by lattice boxes or pallets. The camera has a very high shock and permanently shock resistant up to 100 g.



MC9350B
Pinhole camera

The MC9350B is fitted in the front of the fork, meaning it is always at the same level as the pallet. A safe immersion of the fork in the pallet and a fast and safe sett-ling of the pallet in the high rack is thus ensured. The pinhole lens and the associated pin-prick sized opening in the casing reduced the risk of wire mesh crates or pallets damaging the lens.

Analog cameras

FORK CARRIAGE | REAR VIEW AND WORKSPACE MONITORING



MC7000B-MH1 | MH2
Megapixel camera

The MC7000B-MH1 and MC7000B-MH2 are mobile megapixel cameras with a 1.3 megapixel wide dynamic range CMOS sensor. The high resolution produces an even sharper image than conventional standard analog cameras. The cameras can be used as a rear view camera, workstation camera or perimeter surveillance camera. The separate adjustment of the lens allows it to be mounted horizontally or overhead.



MC7000C-E
Heavy-duty camera

Based on its small design, the MC7000C-E is perfectly suitable for the installation on mobile machines with limited space available. The individually adjustable lens makes it possible to install the camera vertically, horizontally, at an angle, or overhead. The stainless steel housing guarantees a high level of durability to prevent corrosion and resist acids.



MC7000C-GH
Heavy-duty camera

Due to its small size, the MC7000C-GH is suitable for mounting on mobile machines where space is limited. Separate adjustment of the lens allows it to be mounted vertically, horizontally, at an angle or overhead. The housing material has a high elastomer content which elastically deforms under tensile and compressive loads and then returns to its original shape.



MC3000B
Heavy-duty camera

The rugged MC3000B reliably solves vision problems in heavy-duty applications. With its anodised and coated aluminium housing, it can withstand extreme weather and environmental conditions. A wide range of fields of view and connectors are available to suit a variety of applications in commercial vehicles and mobile machinery.



MC3000C-IR/-WL
Night vision camera

The MC3000C-IR/WL is a heavy-duty night vision camera with integrated infrared/white light LEDs. The camera automatically switches to LED mode when darkness falls. It provides a crystal clear colour image both day and night. LED cameras are used on machines where it is not possible or desirable to install additional headlights.

Analog monitors

MULTIFUNCTIONAL MONITORS FROM 7" TO 17"



MD3071A
7" monitor

Due to its compact and versatile design and its integrated functions, the tough heavy-duty MD3071A monitor offers a wide range of applications, for example the horizontal and vertical version in the 360° bird's eye view system (MVS). The software update option ensures that the MD3071A is always up to date and thereby future-proof.



MD3073
7" monitor

The waterproof and dustproof monitor MD3073 is used in the forklift and logistics area (cold store operation). Furthermore, the robust monitor is used on construction and agricultural machinery as well as foundry vehicles. Especially its use in alternating operation in cold and warm temperatures are its strengths. It fulfills the protection class IP67.



MD3100
10" monitor

The MD3100A has a 10" screen and thereby is suitable to simultaneously display multiple camera images. For industrial use it was equipped with a powder coated metal housing, wich fulfills the protection class IP54 on the front side.



MD4074-Quad-IP30
7" monitor

The MD4074-Quad-IP30 is a rugged, heavy-duty monitor. Different image modes can be displayed on the screen and up to four camera images can be displayed simultaneously, including interval switching.



MD4074-Quad-IP67
7" monitor

The MD4074-Quad-IP67 is a rugged outdoor monitor suitable for cold stores. Different image modes can be displayed on the screen and up to four camera images can be displayed simultaneously, including interval switching.



LCD-Monitor
17" metal housing monitor

The 17" LCD monitor is a monitor for industrial applications and stationary use with powder-coated metal housing. The large screen size ensures the display of complex image combinations. The higher resolution provides sharp camera images that are true to the detail.

Intelligent video control units

MULTI-CAMERA VIDEO CONTROL UNITS



MVCD2000
Digital video controller

The MVCD2000 is a state-of-the-art digital video control unit for highly complex camera-monitor applications. Designed, manufactured and programmed in Germany, future-proof through software updates and equipped with a host of intelligent features, the MVCD2000 offers a wide range of heavy-duty applications in a variety of industries and sectors.



MVCT1104
TVI video controller

The MVCT1104 is a mobile video controller for 270/360° bird's eye view applications. Equipped with a number of intelligent functions, the video control unit offers a wide range of heavy-duty applications in a variety of sectors.



MVCU1400
Video control unit

The MVCU1400 is an intelligent, CAN-controlled heavy-duty multi camera video control unit that processes up to 4 camera images and displays them on up to 2 monitors in various modes.

Data storage and transmission

DIGITAL VIDEO RECORDER | DIGITAL WIRELESS SYSTEM



DVR-980-4CH-WIFI
Digitalrekorder

The DVR-980-4CH-WIFI is a WLAN-enabled digital recorder for mobile use that can connect up to 4 high-performance cameras. Recording is done at the touch of a button, by event and time control and on motion detection in AVI format. Live viewing and recording are possible simultaneously, as are image quality and frame rate settings. GPS data can be displayed during recording. Lockable housing.



KIT-3-MAB2000
Digital wireless system

Digital wireless system for image transmission. Including video receiver, video transmitter, charger, battery box and 2 Li-ion batteries. Operating time > 28 hours thanks to automatic shutdown. Range up to 120 meters. 2.4 GHz.

Other ways of transmission

- FOC (fibre optic cable)
- Twisted pair converter
- Ethernet/BroadR-Reach

Cables and cable harnesses

TAILOR-MADE SOLUTIONS

Motec GmbH has more than 30 years of experience in the field of customised cables. We currently offer around 1,000 different cables in various lengths and designs.

Our strength lies in customised solutions: We use all common connectors and also offer complex cable harnesses and cable sets. We use all types of wire and cable with diameters ranging from 0.013 mm² (AWG36) to 107.2 mm² (AWG 4/0), with no limit on the number of wires.



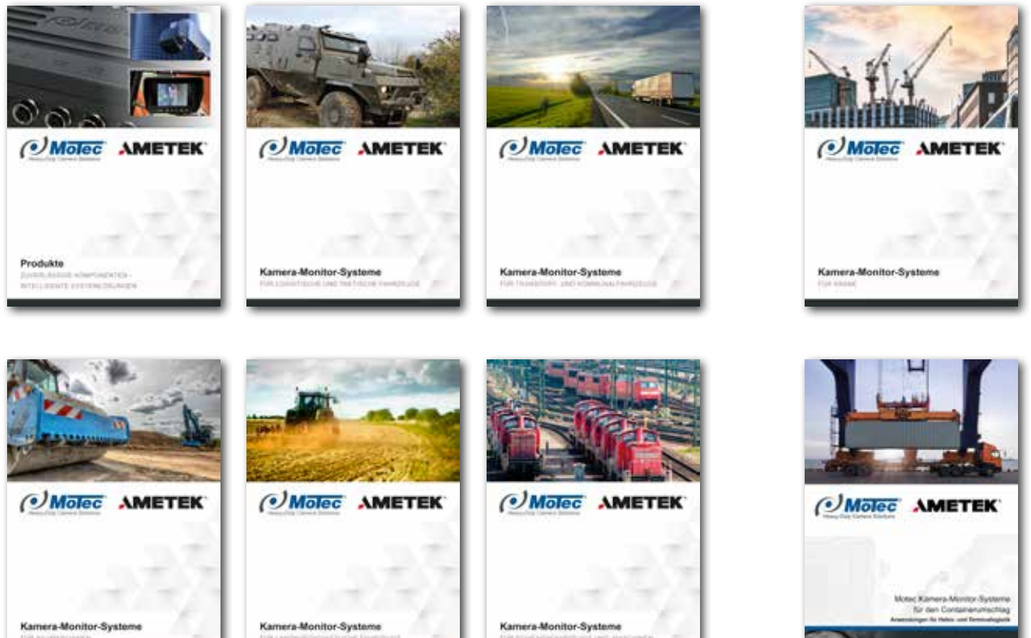
CERTIFIED QUALITY FOR HIGHEST DEMANDS

- Pull testing
- Micrograph laboratory
- Crimp height measuring
- Automatic crimping force monitoring
- 100 % semi-automatic, logged and functional end testing
- EDP-supported merchandise management and production planning and control systems
- Operational data recording via bar code
- 100 % traceability (via batch and serial numbers)



Systems solutions

FOR NUMEROUS OTHER INDUSTRIES



Catalogs

- Product programm
- Defense
- Commercial Vehicles
- Construction machines
- Agriculture machines
- Rail

Brochures

- Cranes
- Port and Terminal logistics

Motec is certified according to the quality standard ISO 9001:2015 and ISO14001:2015 for environmental management. For the development and manufacture of products for use in road traffic, the management system also has extended certification for approval-relevant requirements (ARR).

Imprint

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Pictures:
Motec GmbH, Fotolia.com, Stock.Adobe.com, Peter Becker Storytelling

Motec GmbH
Oberweyerer Straße 21
65589 Hadamar
GERMANY

Phone +49 6433-9145 0
motec.info@ametek.com
www.motec-cameras.com

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