



Traffic

Paving the road to safety

Motec systems for utility vehicles in freight and communal applications

Motec

Systematic safety

Whether freight, rail traffic, industry, municipalities, logistics or agriculture – Motec has been one of the leading manufacturers of high-quality and intelligent camera monitoring systems for mobile applications for over 20 years. Our strength: Systems which we customise perfectly to your needs. High-grade components designed for continuous operation under the toughest conditions which function reliably in wind and rain.

Motec is a flexible and reliable partner for initial equipping. Our processes in the development, production and service are at OEM level and meet the industrial standards. Renowned international vehicle, machine and system manufacturers are relying on our systems and components since years and trust in our solution expertise.

Motec systems for utility vehicles in freight and communal applications

Motec cameras can be connected to almost every factory-supplied data terminal. It doesn't matter what kind of connections the terminals and monitors in the vehicle are equipped with – the cameras supply the information needed by the driver. This brochure contains a presentation of our selection of possible system solutions for your applications.

Monitors

- Top processing
- Easy installation
- High functionality
- Digital technology for the highest image quality
- Can be installed as modules

Cables and plugs

- More than 600 cables and connectors - robust, waterproof, reinforced
- Customised assembly
- Individual tailoring
- Every connection possible
- High quality material mix

Cameras

- Top processing
- Robust and resistant
- Suitable for high pressure cleaners (IP69K)
- Modern camera technology
- Can be installed as modules
- Automatically controlled camera heating

Certified quality

Top quality at all levels Motec is certified in accordance with ISO 9001 and ISO14001 and holds the AEO certificate as an "Authorised Economic Operator".



Technical service

Fast help guaranteed

Top quality also includes top service. We are also available to assist you with technical questions or problems. Our sales and technology divisions work closely together. You will benefit from short distances and efficient communication. Our service employees know your needs, can understand your processes and quickly find a solution.

Associations



Drawbar trailer with box construction

Safe manoeuvring and approaching of loading ramps



Cameras make it easier to manoeuvre and to accurately approach the loading ramp. In the case of drawbar trailers, a camera on the tractor can monitor the drawbar area.

Allows the driver to see

- Obstacles and persons behind and near the vehicle
- Loading ramp
- Trailer drawbar when coupling



MD2070-Set

- Screen size 17.8 cm
- Up to two cameras
- Sharp and high-contrast images even in heavy sunlight
- Separated image mirroring



MK296

- Trailer / drawbar cable
- Robust connector (13-pole)
- For frequent detachment and connection
- Can be operated using work gloves



MC7000P-E

- Modern image electronics (CMOS-Chip)
- Adapts easily to changing lighting conditions
- Sharp images even in back-light
- With stainless steel mount

Semitrailer

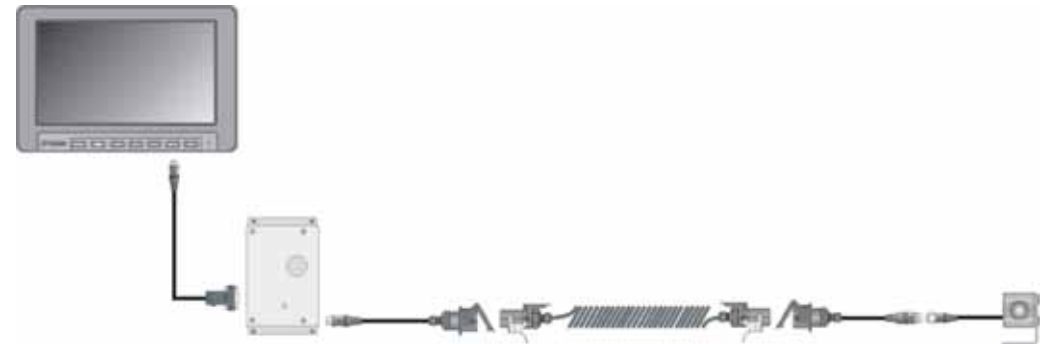
Safe manoeuvring and reversing



Cameras make it easier to manoeuvre and reverse. The camera is installed on top of the tank at the rear of the vehicle.

Allows the driver to see

- Obstacles and persons behind and near the vehicle
- Loading ramp



MD3070A

- Flat and compact 7" monitor
- Integrated background lighting
- High temperature resistance



MB1205

- Easy control of up to two cameras
- Mirror function for each camera
- Supports indicator-controlled side camera
- Automatic trailer detection



MC7000P-E

- Modern image electronics (CMOS-Chip)
- Adapts easily to changing lighting conditions
- Sharp images even in back-light
- With stainless steel mount

Tank semi-trailer

Rear view monitoring with TÜV (technical inspection association) and ADR approval



The ADR certified Motec cameras are installed on top of the tank at the rear of the vehicle. This allows the driver to view the entire area behind his vehicle.

Allows the driver to see

- Persons and obstacles in the hazard zone
- Vehicles in the blind spot



MD3052A-L

- Screen size 14.2 cm (5.6")
- Two switchable camera images
- Fits into every cabin
- Light protection hood
- Image mirroring



MK11

- Designed for frequent detachment when coupling
- Robust connector connections
- Connection cable (e.g. between tractor and trailer)



MC7000P-3

- Modern image electronics (CMOS-Chip)
- Adapts easily to changing lighting conditions
- Sharp images even in back-light

Longliner

Rear view monitoring



Camera systems are required by law for truck combinations with excessive lengths. A camera on the rear of the vehicle or trailer monitors the traffic and defuses critical situations.

Allows the driver to see

- Obstacles and persons behind and near the vehicle
- Loading ramp
- Vehicles in the blind spot



MD3072B

- Screen size 17.8 cm
- Built-in video control element
- Connection of up to two cameras
- Image mirroring



MK543

- Robust connector
- High-grade and durable coarse cable



MC7000P-E

- Modern image electronics (CMOS-Chip)
- Adapts easily to changing lighting conditions
- Sharp images even in back-light
- With stainless steel mount

Heavy transport

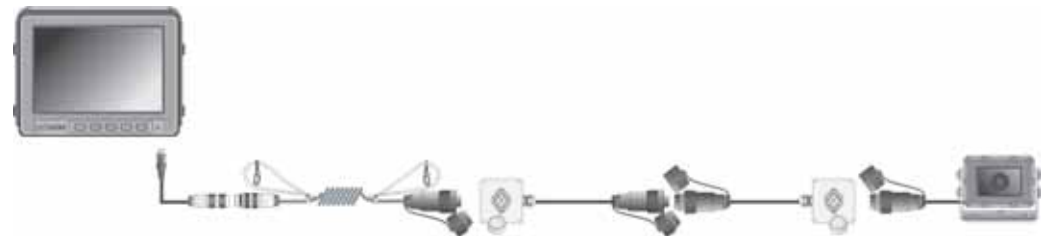
Rear view monitoring and load monitoring



Flexible systems which can be adapted to the length and various attachments of the tractor-trailer. Cameras are primarily used here for the monitoring of the rear view, but also for monitoring the load.

Allows the driver to see

- Obstacles and persons behind and near the vehicle
- Loading ramp



MD3052A-L

- Screen size 14.2 cm (5.6")
- Two switchable camera images
- Fits into every cabin
- Light protection hood
- Image mirroring



MK11

- Designed for frequent detachment when coupling and decoupling
- Robust connectors
- Connection cable (e.g. between tractor and trailer)



MC3000A

- Robust housing of machined aluminium
- Extremely high chemical and mechanical resistance

Solo distributor vehicle

Safe manoeuvring



Cameras make it easier to manoeuvre and to accurately approach the loading ramp.

Allows the driver to see

- Obstacles and persons behind and near the vehicle
- Loading ramp



MD3052A-L

- Screen size 14.2 cm (5.6")
- Two switchable camera images
- Fits into every cabin
- Light protection hood
- Image mirroring

MKW

- High-grade and robust system cable
- Waterproof connectors
- With protective hose against mechanical damages
- Meets the highest requirements in accordance with the industrial standard

MC7000P-E

- Modern image electronics (CMOS-Chip)
- Adapts easily to changing lighting conditions
- Sharp images even in back-light
- With stainless steel mount

Rear loader

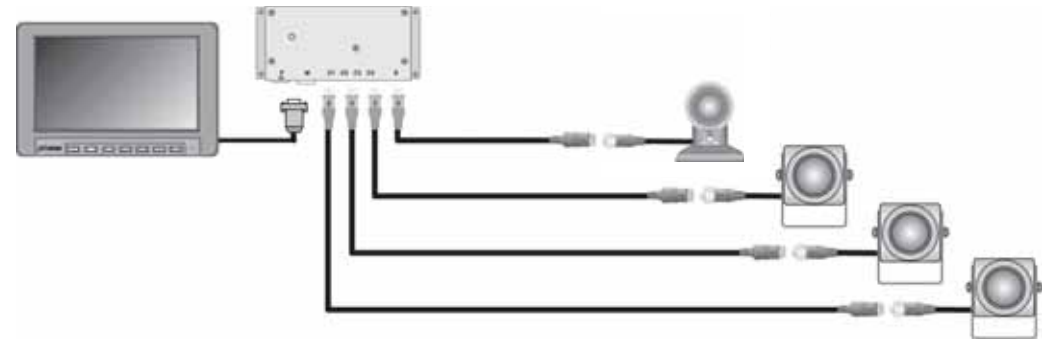
Rear-view monitoring when manoeuvring and reversing



The rear area is the trouble spot for rear loaders. A camera mounted on the jig allows the driver a view of the complete working area. Representation over a Motec display or a factory installed terminal.

Allows the driver to see

- Monitoring of vehicle side when turning
- Persons in the path of lifter



MD3070A

- Flat and compact 7" monitor
- Integrated background lighting
- High temperature resistance



MB1405

- Control and manage up to four cameras
- Supports an indicator-controlled side camera
- Automatic trailer detection
- Automatic time-controlled switching



MC6000C

- Stable and weather-proof housing
- High shock and vibration resistance
- Automatically controlled defogger
- Automatic brightness compensation

Compactor truck – side loader

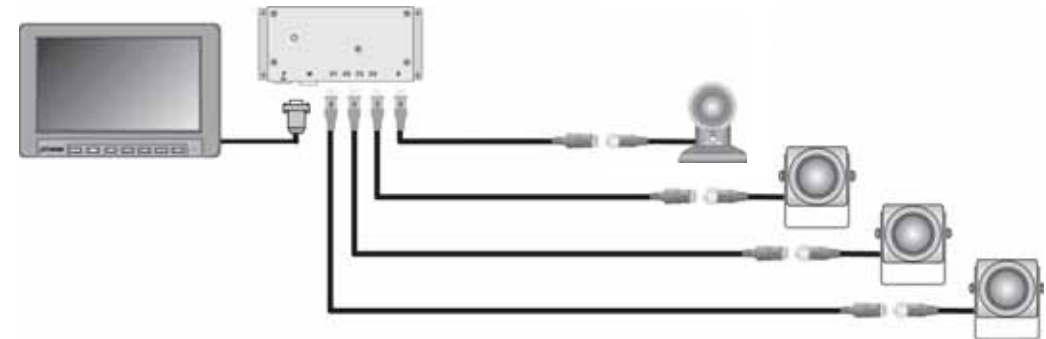
Efficient camera monitoring for one-man operation



The driver must be able to keep an eye on the traffic and vehicle work processes. Motec cameras help them for example to monitor the lifter and the fill.

Allows the driver to see

- Oncoming traffic for right-hand driven vehicles
- Area behind the vehicle
- Congestion in the fill
- Lifter



MD3070A

- Flat and compact 7" monitor
- Integrated background lighting
- High temperature resistance



MB1405

- Control and manage up to four cameras
- Supports an indicator-controlled side camera
- Automatic trailer detection
- Automatic time-controlled switching



MC6000C

- Stable and weather-proof housing
- High shock and vibration resistance
- Automatically controlled defogger
- Automatic brightness compensation

Compactor truck – front loader

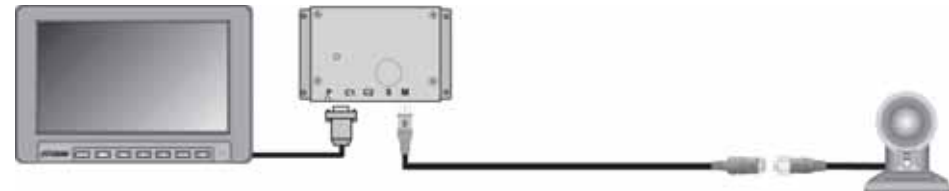
Camera as mirror substitute



Drivers of large lorries do not have a view of the area immediately in front of the vehicle. With Motec camera systems the driver can see this area at all times. System certified in accordance with EU Guideline 2003/67 (ECE 46).

Allows the driver to see

- Passers-by and cyclists when making right turns
- Objects in the hazard zone



MD3070A

- Flat and compact 7" monitor
- Integrated background lighting
- High temperature resistance



MB1205

- Easy control of up to two cameras
- Mirror function for each camera
- Supports indicator-controlled side camera
- Automatic trailer detection



MC7000P-3

- Modern image electronics (CMOS-Chip)
- Adapts easily to changing lighting conditions
- Sharp images even in back-light

Compact sweeper

Safe manoeuvring and operating



Motec cameras record the invisible area behind the compact vehicle and support the driver when manoeuvring and reversing, e.g. on traffic islands, entrance ways or in pedestrian zones.

Allows the driver to see

- Persons behind the machine
- The machine sweepers



MD3052A-L

- Screen size 14.2 cm (5.6")
- Two switchable camera images
- Fits into every cabin
- Light protection hood
- Image mirroring



MKW

- High-grade and robust system cable
- Waterproof connector
- With protective hose against mechanical damages
- Meets the highest requirements in accordance with the industrial standard



MC7000P-E

- Modern image electronics (CMOS-Chip)
- Adapts easily to changing lighting conditions
- Sharp images even in back-light
- With stainless steel mount

Winter maintenance vehicles

Grit distribution and rear view monitoring



Motec cameras are mounted above the gritting unit so that the driver can observe the traffic and monitor the gritting table and grit distribution.

Allows the driver to see

- Obstacles when manoeuvring
- Persons in the hazard zone when entering the salt storage depot
- Grit distribution and clearing result during travel



MD3070A

- Flat and compact 7" monitor
- Integrated background lighting
- High temperature resistance



MC3000A

- Robust housing of machined aluminium
- Extremely high chemical and mechanical resistance
- Quick-change mount



RS1000

- Cleaning at the press of a button
- High-pressure pump 24V
- Separator Tank (13 l)
- Easy integration in existing systems

Fire engines

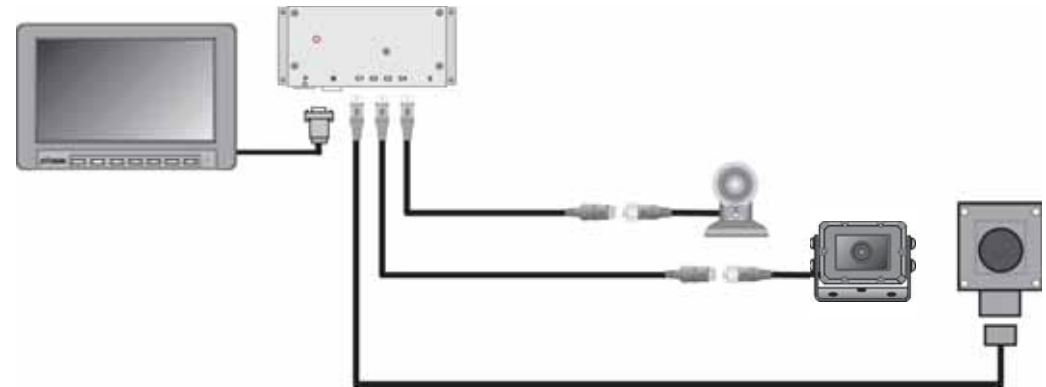
Manoeuvring assistance at the operational site



Cameras record the area behind the vehicle and support the driver when manoeuvring and reversing in operational areas and sites which are difficult to access.

Allows the driver to see

- Obstacles when manoeuvring
- Persons and animals on the roadway



MD3070A

- Flat and compact 7" monitor
- Integrated background lighting
- High temperature resistance



MC3000A

- Robust housing of machined aluminium
- Extremely high chemical and mechanical resistance



PathFindIR

- Requires no light sources
- Sharp images in darkness, fog, rain or snow
- Detects persons and obstacles across vast distances

Technical Relief Agency vehicles

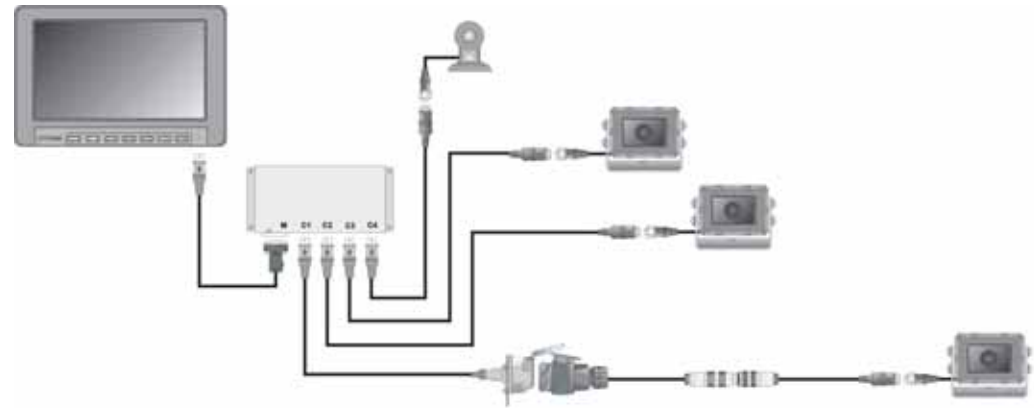
Safe manoeuvring



Cameras make it easier to manoeuvre and to accurately approach the loading ramp. In the case of drawbar trailers, a camera on the tractor can monitor the drawbar area.

Allows the driver to see

- Obstacles and persons behind and near the vehicle
- Loading ramp



MD3070A

- Flat and compact 7" monitor
- Integrated background lighting
- High temperature resistance



MK84

- Connection cable with robust FDJ/13pol coupling joint
- For frequent disconnection
- With integrated protective hose



MC3000A

- Robust housing of machined aluminium
- Extremely high chemical and mechanical resistance

Airport fire engine

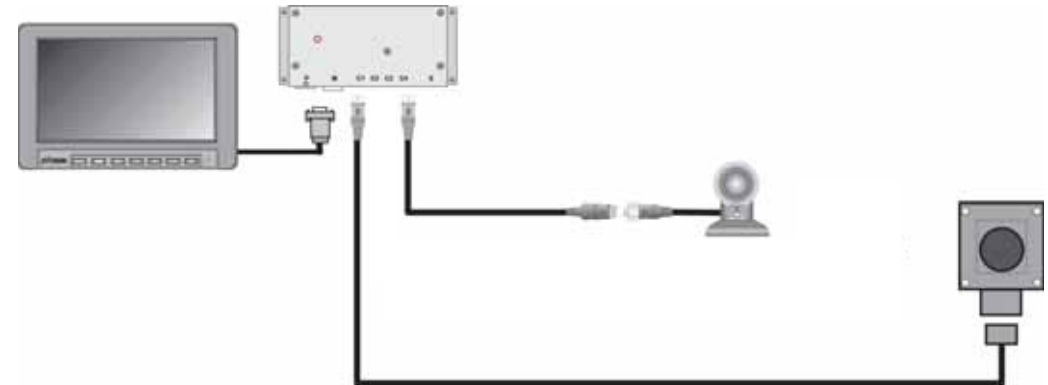
Rear and front view monitoring



Cameras monitor the area behind the vehicle and support the driver when manoeuvring and reversing in operational areas and sites which are difficult to access.

Allows the driver to see

- Persons and obstacles in the hazard zone
- Vehicles in the blind spot



MD3070A

- Flat and compact 7" monitor
- Integrated background lighting
- High temperature resistance



MC7000P-E

- Modern image electronics (CMOS-Chip)
- Adapts easily to changing lighting conditions
- Sharp images even in back-light
- With stainless steel mount



PathFindIR

- Requires no light sources
- Sharp images in darkness, fog, rain or snow
- Detects persons and obstacles across vast distances

Road sweepers

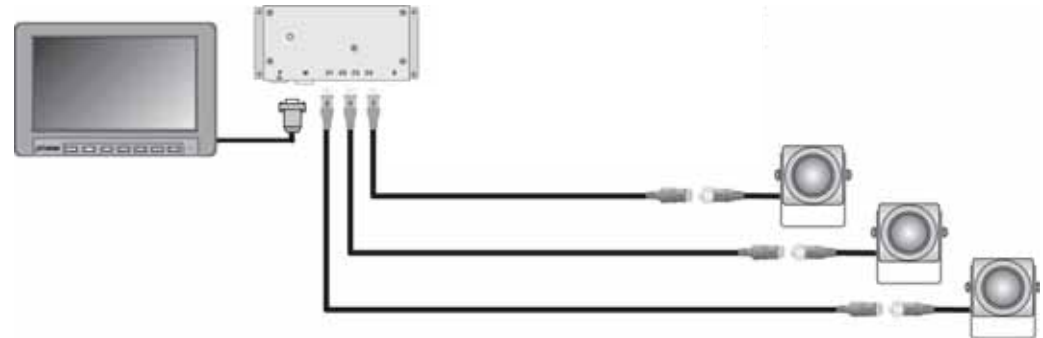
A view of street traffic and work processes



Road sweeper drivers must keep an eye on both the road traffic and sweeper. Motec camera solutions supply the driver with the right camera image in every situation.

Allows the driver to see

- The area behind the machine
- The broom during sweeping operation



MD3070A

- Flat and compact 7" monitor
- Integrated background lighting
- High temperature resistance



MB1405

- Control and manage up to four cameras
- Supports an indicator-controlled side camera
- Automatic trailer detection
- Automatic time-controlled switching



MC6000C

- Stable and weather-proof housing
- High shock and vibration resistance
- Automatically controlled defogger
- Automatic brightness compensation

Road mowers

Flexible usage in summer



With changing attachments, road mowers can be used all year round. A quick change mount can be used to dismantle and convert Motec camera systems at lightning speed and without the need for tools.

Allows the driver to see

- Invisible operational areas in front of and next to the vehicle
- Persons and objects in the vehicle hazard zone



MD3070A

- Flat and compact 7" monitor
- Integrated background lighting
- High temperature resistance



MK25-MA2

- Stable connection cable
- Suitable for winter road maintenance
- Coupling point for system change



MC3000A

- Robust housing of machined aluminium
- Extremely high chemical and mechanical resistance
- Quick-change mount

Dump truck

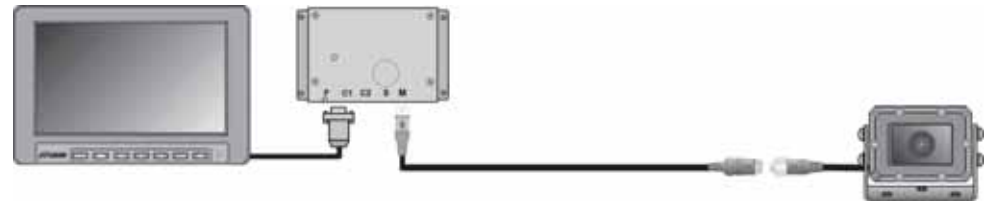
Safe and precise manoeuvring at the construction site



Robust and weather-resistant heavy-duty cameras make it easier for the driver to back up at the construction site and assist in the detection of persons in the vehicle blind spot.

Allows the driver to see

- Persons in the hazard zone behind the vehicle
- Objects and obstacles when manoeuvring



MD3071

- Screen size 17.8 cm (7")
- Connection of up to two cameras
- Image mirroring
- Sharp and high-contrast images even in heavy sunlight



MKW

- High-grade and robust system cable
- Waterproof connector
- With protective hose against mechanical damages
- Meets the highest requirements in accordance with the industrial standard



MC3000A

- Robust housing of machined aluminium
- Extremely high chemical and mechanical resistance



Compactor truck

The operator unit with a high-resolution colour monitor enables ergonomic vehicle operation, diagnosis and system configuration. Additional inputs and outputs process signals in the cabin and thus replace additional control devices. The terminal supplies the rear-view back-up camera in which the image is also mirroring.



Compactor truck

The operator unit in a compactor truck is based on modern CAN-BUS control. The lighting control, analysis tools and rear-view camera are already integrated. The power is supplied to the camera via the control device, where the image is also mirroring.

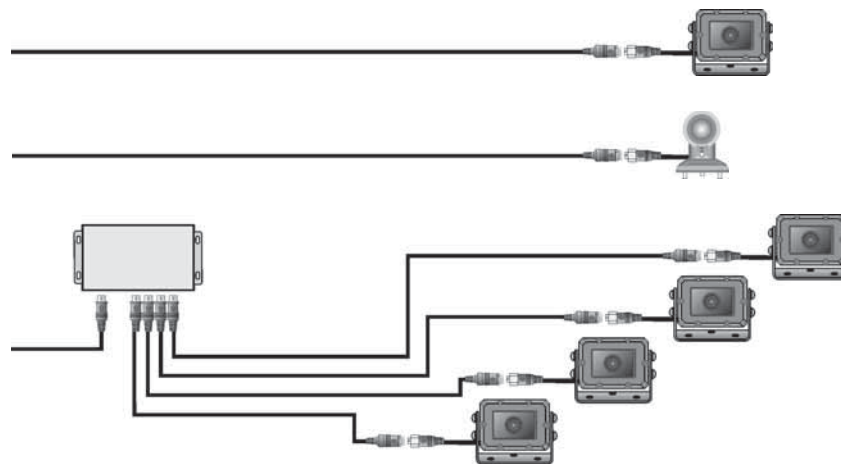


Distribution vehicle

Complex data and graphics can be clearly displayed on the 5.7" VGA handheld unit. The video input can be used to connect up to four cameras using a Motec switch box. Along with camera switching, it enables automatic trailer detection or a side-view camera activated by the indicator.

Terminal connection

Flexible connection to numerous data terminals



MB1205

- Easy control of up to two cameras
- Mirror function for each camera
- Supports indicator-controlled side camera
- Automatic trailer detection



MC7000P-3

- Modern image electronics (CMOS-Chip)
- Adapts easily to changing lighting conditions
- Sharp images even in back-light



MC3000A

- Robust housing of machined aluminium
- Extremely high chemical and mechanical resistance

Customised solutions for numerous additional sectors

System solutions



Construction machinery and cranes



Utility vehicles in freight traffic and communal use



Agricultural machinery



Forklifts and industrial applications



Industrial systems and vehicles



Armoured and all-terrain utility and transport vehicles



Track and railroad vehicles



Maritime and offshore applications



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