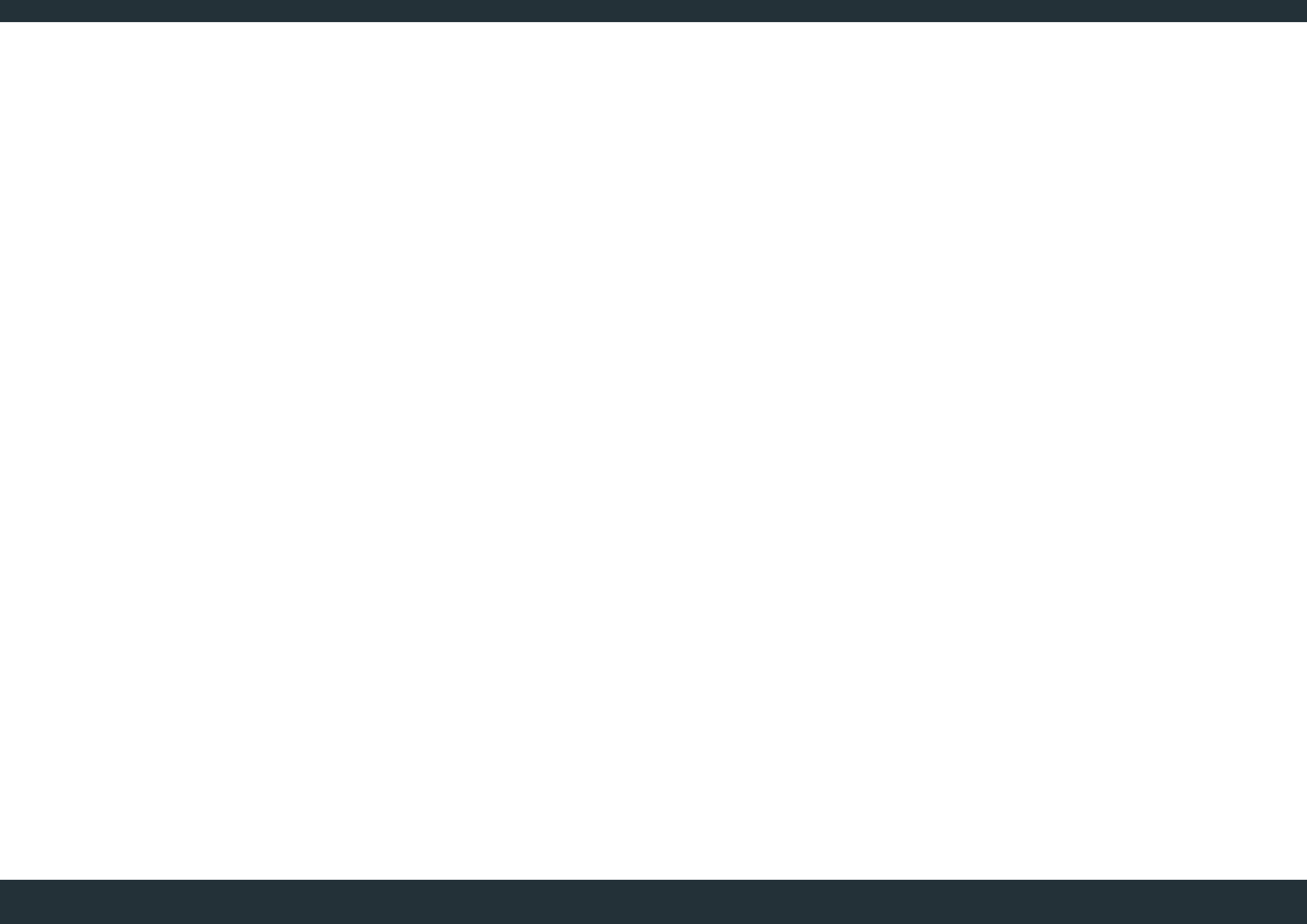




Traffic

## 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 have been relying on our systems and components for 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. No 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

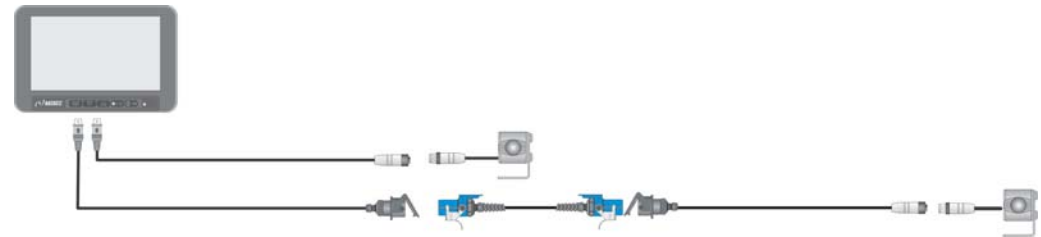
Safe manoeuvring and approaching of loading ramps



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



## MD3071

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



## 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

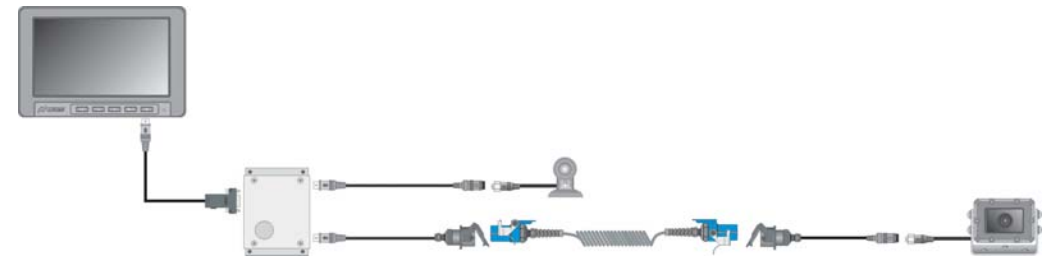
## Safe manoeuvring and reversing



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
- Powerful 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



### MC3000A

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

# Tank semi-trailer

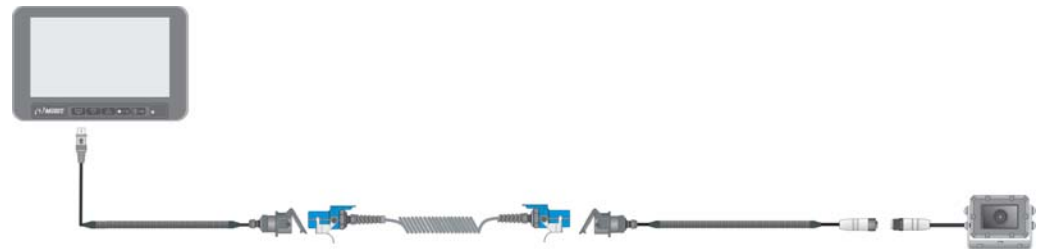
Rear view monitoring with TÜV (technical inspection association) and ADR approval



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



## MD3071

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



## Drawbar cable

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



## MC3000A

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

# 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



### System cable

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



### MC3000A

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

# 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



### MD3071

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



### Spiral cable

- 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



### MD3071

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



### System cable

- High-grade and robust
- Waterproof connector
- With protective hose against mechanical damages
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### 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



A camera located at the rear of the vehicle allows drivers to see the working area of his colleagues, thus helping to prevent dangerous situations that may be caused by persons moving in the blind angle behind the lifter.

### Allows the driver to see

- Persons and other traffic
- Persons near the lifter



### Benefits of terminal connection

- Vehicle-specific display and information concept can be used
- No additional display units required in the driver cabin
- Camera system directly controlled via the operating terminal

# Compactor truck – side loader

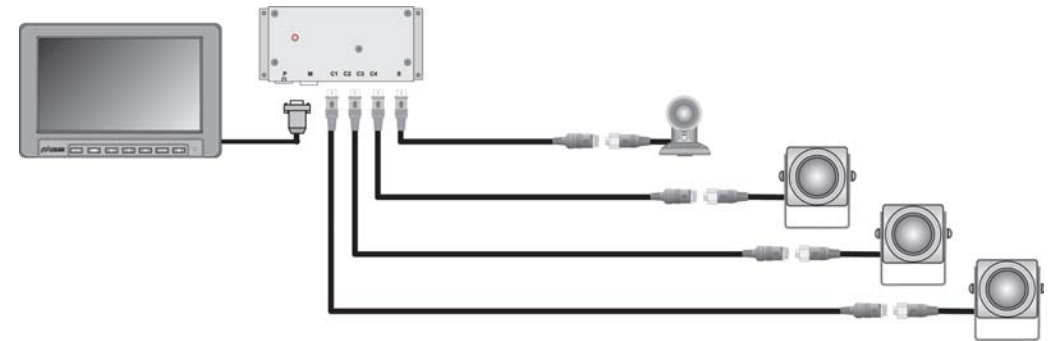
## Efficient camera monitoring for one-man operation



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
- Powerful background lighting
- High temperature resistance



### MB1405

- Control and manage up to four cameras
- Supports an indicator-controlled side camera
- 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

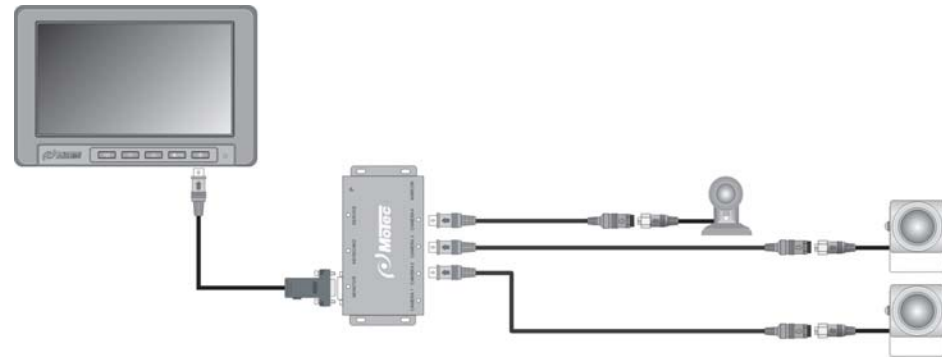
## Camera as mirror substitute



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
- Powerful background lighting
- High temperature resistance



### MB1405-Quad

- Easy control of up to four cameras
- Split function – up to four images at one time
- Camera selection using control cables or operating unit
- Power supply for cameras and monitors



### MC7000P-3

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



# Sweeper

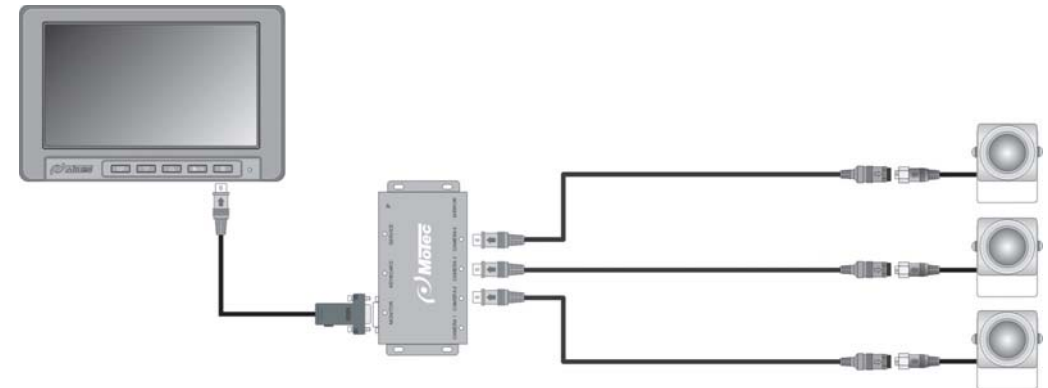
A view of street traffic and work processes



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
- The suction port in sweeping operation



### MD3070A

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



### MB1405-Quad

- Easy control of up to four cameras
- Split function – up to four images at one time
- Camera selection using control cables or operating unit
- Power supply for cameras and monitors



### MC6000C

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

# 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



### MD3071

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



### 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 on the roadway



### MD3070A

- Flat and compact 7" monitor
- Powerful 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



### MC3000A

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



# Emergency vehicle for civil defense

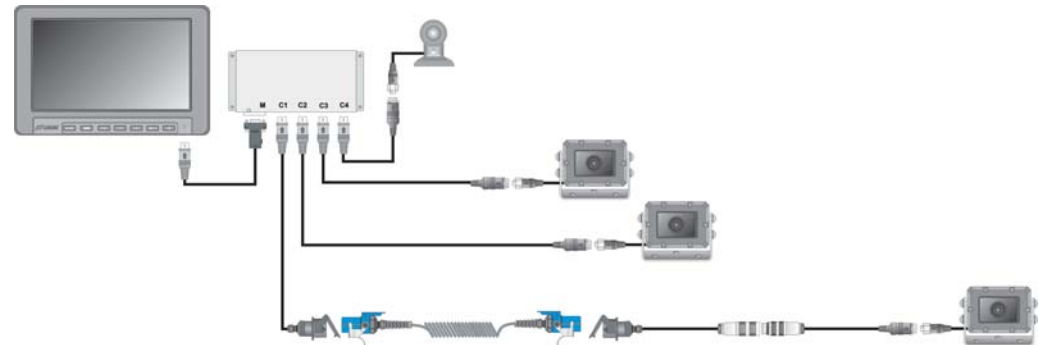
## Safe manoeuvring



Motec cameras facilitate driving and maneuvering for drivers in impassable terrain and in complex driving situations at the place of action. Up to four cameras are used to cover the complete dangerous area near the vehicle.

### Allows the driver to see

- Objects and persons behind the vehicle
- The loading ramp and the cargo
- The side area when turning right



### MD3070A

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



### Drawbar cable

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



### MC3000A

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



# Airport fire engine

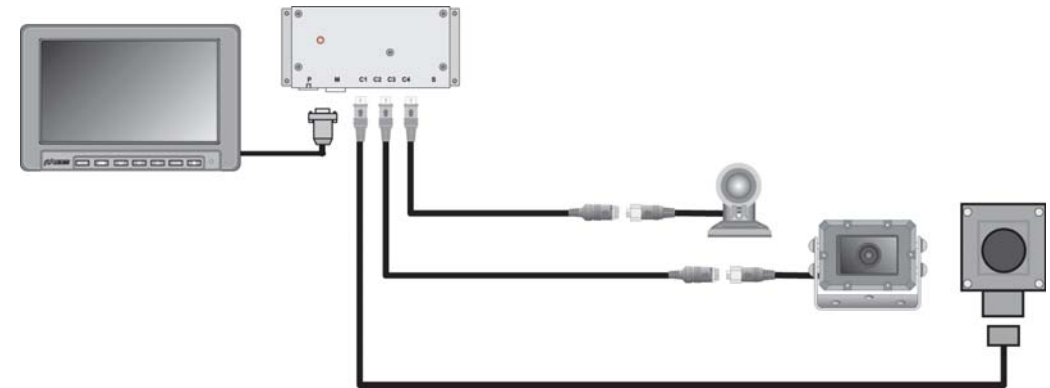
## Rear and front view monitoring



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
- Persons on the road



### MD3070A

- Flat and compact 7" monitor
- Powerful 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

# 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
- Powerful background lighting
- High temperature resistance



### System cable with fixed coupling joint

- Robust connection cable
- Suitable for all-season operation
- Allows rapid system change



### MC3000A

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

# Terminal connection

## Fast and easy retrofitting

Vehicles that are already equipped with a video-supporting operating terminal or with an instrument cluster can easily be equipped with a reverse camera system by using individually configured connection adapters.



Mercedes-Benz  
Highline instrument cluster



MAN  
MMT



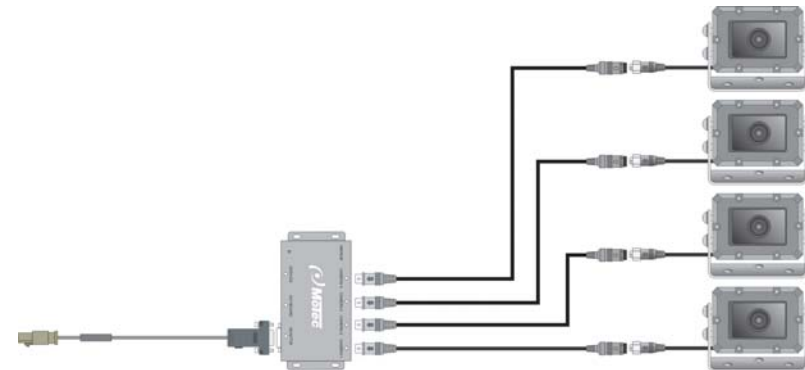
IVECO  
IVECONNECT

When the video image is integrated in the vehicle's existing display and information concept, drivers no longer have to watch additional display units so that they are able to quickly and precisely detect dangerous driving situations when manoeuvring or reversing.

### Solo system



### 4-way system



### Benefits

- Fast and easy retrofitting
- Use of vehicle-specific display and information concept
- No additional display units required in the driver cabin

### Allows the driver to see

- Distance to obstacles and parking vehicles
- Persons behind the vehicle

# Vans

## Safe manoeuvring



Camera systems reduce the risk of personal injuries and property damage when delivering – especially in city center areas, e.g. pedestrian areas, thus allowing drivers to safely maneuver in confined space.

### Allows the driver to see

- Persons behind the vehicle
- Distance to obstacles and parking vehicles



### MD3052A-L

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



### System cable

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



### MC7000P-E

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



# Turning right safely

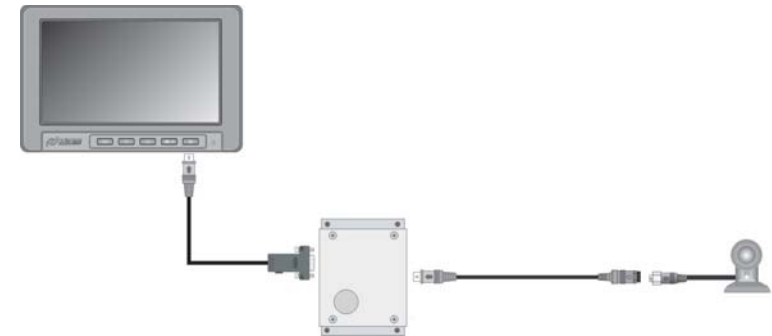
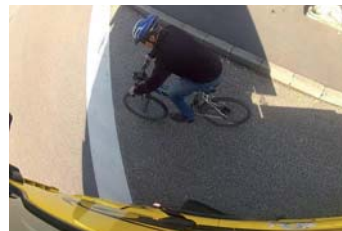
## Visibility of the area next to the vehicle



In city center areas, trucks, due to blind angles, are facing considerable dangers when turning right. Camera systems help drivers to see persons hidden in the blind angle, thus avoiding dangerous situations.

### Allows the driver to see

- Persons next to the vehicle



### MD3070A

- Flat and compact 7" monitor
- Powerful 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

# 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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**Web** [www.motec-cameras.com](http://www.motec-cameras.com)

Your local motec dealer

