

atlasMX-720 for haulage

blind spot free vision for safe operation



use real-time imagery

to improve safety when reversing or changing lanes

monitor all vehicle actions

and mitigate claims with recorded and stored footage

reduce insurance premiums

with an indisputable event recording vision system

reduced costs

Truck drivers continuously aim to maximise the efficiency of their operations while optimising costs and maintaining safety at all times. Minimising accidents and lowering insurance premiums is one way to significantly reduce costs as well as downtime, to increase invoicable hours of the truck.

The **atlasMX-720 system** enables

- » real-time 360° vision around an operator's vehicle to **avoid accidents**, and
- » recording of footage to be made on a rolling basis for a defined period of time to enable **insurance claim mitigation**.

The implementation of a premium vision end event recording system, gives drivers a full view of the vehicle

surroundings, enabling safe reversing, manoeuvring and lane changes.

By storing footage for long periods of time, operators are able to provide insurance companies with conclusive evidence in case of an incident. This is a very effective way to prove fault correctly, especially in the case of rear-end accidents due to unsafe driving by other road users.

Achieve direct savings by

- » **reducing** the number of incidents that occur per truck in your fleet
- » **lowering** insurance premiums for your fleet
- » running your own applications on-board the atlasMX-720 system, **no additional hardware** is needed.

atlasMX-720



minimising risks

The atlasMX-900 supplies vision at 180° horizontally from every camera. The camera array therefore gives the operator full blind spot free surround vision, and topVIEW enables this complete view of the vehicle with a single glance. The enhanced vision **significantly reduces risk** while driving, manoeuvring, and repositioning vehicles, both on the road and on-site.

The heavy vehicle industry is frequently subject to insurance claims. Installation of the atlasMX-720 system eliminates false claims as **imagery is recorded** without blind spots fully around the vehicle, allowing operators to provide **conclusive evidence** and mitigate claims with ease.

The smart cameras of the system record in full high definition and utilise HDR (High Dynamic Range) sensors to ensure **premium image quality** in the harshest conditions, including weather extremes of both temperature and rain, and dusty bright sunlight.

A **fifth camera** can also be incorporated into the system to allow relocation of the rear camera in the case of dual trailers, e.g. for a B-Double road train.

system benefits

- » **Claim Mitigation:** Utilise footage to mitigate accident claims especially due to unsafe driving actions of other road users. The ability to replay incidents up to several months in the past can diminish costs substantially.
- » **Increased Vision:** Seamless system interaction with the vehicle via CAN enables an automatic switch to the rear camera when reversing, or side/rear combinations when changing lanes. topVIEW allows an operator to ensure total safety around a vehicle with one glance.
- » **Ease of Use:** The system is designed to operate autonomously without any driver interaction (no menus to follow). Gridlines on each camera also allow easy estimation of distance to objects.
- » **Increased Vehicle Uptime:** With less accidents comes less vehicle repairs/downtimes and more days to create income.
- » **Insurance Premium Reduction:** Premiums could potentially be reduced/renegotiated based on the added security provided by the system.



The atlas system represents a leap forward in safety and risk

system highlights



high quality imagery

- » Footage is recorded in **high definition** using **High Dynamic Range** (HDR) sensors for best possible image quality, even in poor lighting conditions.



environment-proof components

- » The system utilises four smartMX-180 cameras built to withstand the **harshest environments** and **high pressure** wash downs [IP69K].
- » Ratings for **temperature** [-40°C to +65°C], **vibration**, and **dust and water ingress** are all at the highest levels, ensuring operation even in toughest conditions.
- » Cable connectors are all Swiss high quality **LEMO®** components.
- » The tigerMX-5 server contains a **480GB SSD hard drive** and the housing is a **single cast** fanless design.
- » Combined with the viewMT-101 **sunlight readable** LCD touch screen, this is the toughest, most fit-for-purpose, and powerful system on the market.



additional rear camera

- » **A fifth camera** could be installed to enable additional location option to the rear of a dual trailer.



remote access

- » In the case of an incident, either on-site or while roading, footage is able to be **immediately retrieved** remotely via the **built-in cellular module**.
- » **Update software** and **wake up switched off systems** remotely by simply sending an **SMS** message.
- » Data can be downloaded automatically when in range of the base **Wi-Fi** hub without any interaction from the operator.



zero operator interaction

- » The **built-in power management** of the atlasMX-720 allows a synchronised starting and stopping with vehicle operation (incl. cranking periods). No operator interaction is required.

atlasMX-720 system for 360° blind spot free vision



smartMX-180 camera

The smartMX-180 delivers high-quality streamed imagery for efficient and seamless monitoring of operations.

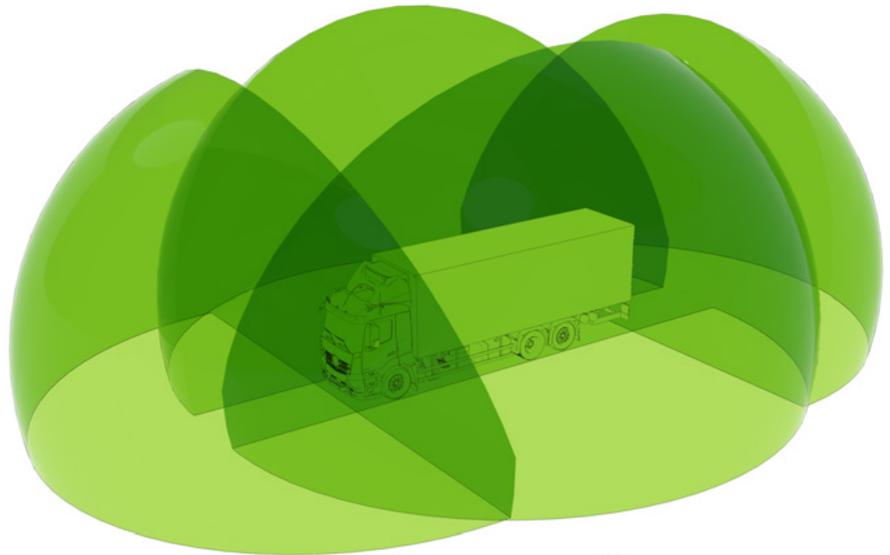
- » Has a secure cast **aluminium enclosure**
- » Uses industrial grade high sensitivity **HDR image sensors**
- » Equipped with a powerful **multi-core ARM® processor**
- » Operates from **-40°C to +65°C**
- » Offers the **highest available ingress protection** (IP69K)



viewMT-101 display

The viewMT-101 displays clear and detailed footage in a wide viewing angle, to improve safety around vehicles.

- » True **sunlight readable** 10.4" touch screen
- » Variable **backlight functionality** for night operations
- » Equipped with **DEUTSCH** and **LEMO®** connectors
- » Configurable to **wide angle** or **split-screen scenarios**
- » **Compact design** allows ease of set up
- » **Internal speaker** for audio and warning tones



tigerMX-5 server

The tigerMX-5 records high resolution imagery providing conclusive evidence in the event of an incident.

- » Provides **two computer modules**
- » Processes footage of up to **five smartMX-180 cameras**
- » **CAN interface** for vehicle communication
- » **Wi-Fi** for enhanced compatibility
- » **Cellular module** to connect to **3G/4G** phone networks
- » Tested for **severe vibration** and **extreme temperature**



Vision in Motion

Black Moth's intelligent mobile vision and communication solutions improve worksite safety for heavy machinery. We provide cutting-edge technology and rugged products to support operations in a wide range of transport and heavy industries.

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