

atlasMX-900 for high value logistics

blind spot free vision for safe operation



use real-time imagery

to visualise everything around the vehicle at all times

increase recovery post-event

by reviewing historical footage to locate persons of interest

reduce risks for clients

by minimising theft and maximising recovery

improved security

Goods such as art, gems, tobacco and cash are highly valuable and easily disposable, making them prime targets for theft. Transport of high value products poses unique challenges and requires extra security to limit risks.

Implementing **blind spot free surround vision** with topVIEW and **object detection capabilities** enables real-time benefits as well as **significant advantages post-event**.

The atlasMX-900 has the ability to monitor actions in **real time** and **independently warn** if a vehicle is approached. This can vastly reduce the number of incidents experienced by an operator.

Post-event, the **recorded footage enables review** of the scene over past weeks and determination of persons of interest to be defined. Stolen items can be quickly recovered as a result of this review, greatly **reducing the risk** of the cargo being disposed of successfully.

The atlasMX-900 vision and event recording system has **significant importance** for high value logistics operators. Its ability to reduce the number of potential incidents in real time, as well as vastly increase the success rate of offender apprehension post-event, makes the atlasMX-900 a **must-have solution** for operators looking to increase the security of their cargo.

atlasMX-900



minimising risks

The atlasMX-900 supplies vision at 180° horizontally from every camera, providing blind spot free surround vision both in real time and recorded footage. A fifth camera can be located in the vault to monitor actions there.

topVIEW allows a driver to clearly see every point around the vehicle **at a single glance**. All imagery is recorded in high definition to ensure premium quality even in difficult conditions such as bright sunlight, darkness or in heavy rain.

During the highest risk times of offload and pick up of goods, the system has the capacity to **recognise individuals** approaching a vehicle and **issue warnings** depending on range. This can be independent of operator control, warning pedestrians to stay away from the vehicle initially, and **triggering alarm systems** if the warning is ignored.

If an incident should occur, the **extensive recording capability** of the atlas system provides all information for a comprehensive investigation. Footage can be reviewed to determine if a particular person or vehicle was seen in the vicinity of the incident at regular times in the recent past. Determination of such an individual or vehicle can greatly assist law enforcement services to **quickly retrieve stolen items**.

system benefits

- » **Real-Time Event Deterrent:** The system has the ability to recognise an approaching individual and take appropriate action, depending on range, that decreases the risk of a robbery attempt occurring.
- » **Post-Event Apprehension Assistance:** Review of historical footage can be used to determine persons or vehicles of interest to increase the speed to recover stolen cargo.
- » **Vehicle Vision Enhancement:** topVIEW allows unrestricted vision around the vehicle with one glance when moving off from stationary and also on the road.
- » **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/renewed based on the added security provided by the system.

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.

in-vault view

- » A **fifth camera** is located within the vault to record all actions that occur as part of the total security of the vehicle.

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 using an **SMS** code.
- » 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-900 allows a synchronised start and stop with vehicle operation (incl. cranking periods). No operator interaction is required.



The atlas system represents a leap forward in safety and risk mitigation, which ultimately results in lower operating costs.



atlasMX-900 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.

Black Moth Vision Systems Pty Ltd
Brisbane Technology Park
42 McKechnie Drive
Brisbane 4113, Australia

