atlasMX-900 for concrete logistics

blind spot free vision for safe operation

use real-time imagery
to improve driver awareness and avoid accidents

monitor all vehicle actions
including load movements, routes, and accident events

reduce insurance premiums
by reducing accidents and false claims

measurable savings

Drivers of concrete trucks deal with hard to access locations, diverse terrain, changing weather conditions and busy construction sites on a daily basis. In addition to that, trucks are top-heavy and difficult to control. Operators continuously aim to maximise efficiency, while optimising costs and maintaining safety levels. Implementing blind spot free surround vision minimises these risks.

Adding **360° vision with topVIEW** real-time imagery and object detection capabilities significantly **improves safety** around these vehicles and accidents are reduced. With a decrease in accidents, **machine uptime** is maintained at high levels and **insurance premiums can be lowered**. An operator's business becomes more efficient while also saving money.

If an incident should occur, the **extensive recording capability** of the atlas system provides all information in High Definition for a comprehensive investigation. The recorded footage also allows the review of items such as intake and offload times to **support compensation claims** when needed.

The altas system enhances safety dramatically. In addition, **significant savings** from claim mitigation, claim supporting, vehicle uptime and insurance premium reduction make the atlasMX-900 a **must-have solution** for forward looking concrete contractors.

atlasMX-900

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 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 is incorporated into the system at the barrel. This gives a **clear high view** in real time allowing an operator to view the material while loading and offloading. Safety of personnel around the vehicle at these critical times can be **monitored from the cab** with only a glance. In the event of a dispute, the operator can also use recorded footage to prove at what times events occurred.

system benefits

» **Claim Mitigation While Roading:** Utilise footage to mitigate accident claims especially due to unsafe driving actions of other road users around the vehicle.
» **Claim Mitigation On Site:** Review of footage can prove delays in loading or unloading, correct intake amounts, correct route travelled, and any number of incidents that may allow an operator to correctly prove fault.
» **Site Safety:** topVIEW enables total safety around the vehicle with one glance when on- and off-loading, moving off from stationary, on the road, and when manoeuvring into tight spaces.
» **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/downtime and more days to create income.
» **Insurance Premium Reduction:** Premiums could potentially be reduced/renegotiated 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.

barrel view
» A fifth camera is mounted facing the mouth of the barrel to monitor intake and offload events both in **real time** and **subsequently**.
» An operator, therefore, has the benefit of 360° vision around his vehicle as well as vision at the barrel **when required**.

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-900 allows a synchronised starting and stopping 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

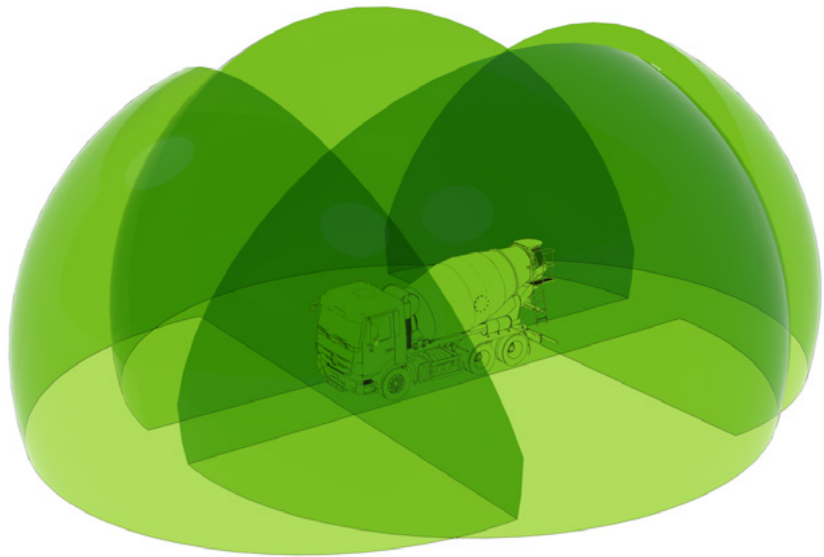**The smartMX-180 delivers high-quality streamed imagery for efficient and seamless monitoring of operations.**

- » 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

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+61 7 3053 8163   hello@blackmoth.com   www.blackmoth.com