

I-MILES TVS

TACTICAL VEHICLE SYSTEM

Universal Wireless Solution for the Entire Vehicle Fleet

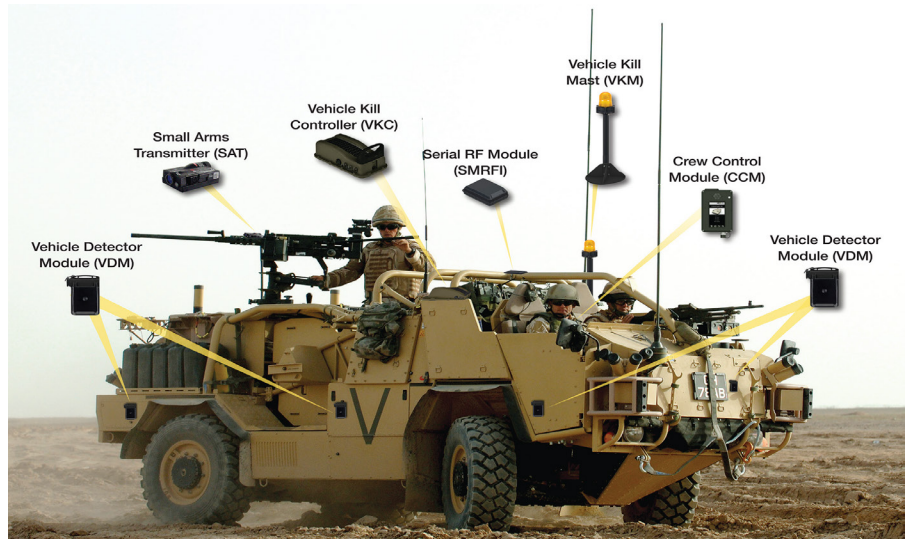
Cubic Defense Applications is pleased to introduce its Tactical Vehicle System (TVS), an easy-to-use laser-based vehicle instrumentation system for use across the entire vehicle fleet.

TVS, which has embedded laser detectors, includes an intuitive Cubic-developed application that greatly simplifies installation and operation by using advanced wireless devices to replace most cables. It has an open architecture and is modular to ensure that it is adaptable to the entire fleet of vehicles employed during instrumented training.

With emphasis on ease of use for soldiers, TVS includes an innovative touch screen interface component for installation. This reduces set-up time and enhances the effectiveness of exercise management and delivery.

The high-fidelity detectors can be used independently on fixed structures, such as bridges and buildings and allows full integration into existing Combat Training Centres.

TVS incorporates GPS and a crew-served weapons interface. It also provides real-time casualty assessment, which is necessary for MILES tactical engagement training when conducting instrumented live training.



TVS builds on Cubic's world-class MILES system, which includes its field-proven Small Arms Transmitter (SAT), which Cubic has applied extensively to different vehicle fleets around the world.

Since 1996, Cubic has delivered over 220,000 MILES systems and is currently delivering the US Army's next generation MILES Individual Weapons Systems (IWS). Cubic is also delivering a wireless MILES system – the Personal Area Network (PAN) – for customers worldwide.

KEY BENEFITS

- **Intuitive** – Provides high-value content user interfaces to simplify installation and operation of the system
- **Multiple Growth Paths** – Our wireless modular design supports growth through upgrades, software/configuration changes, and technology insertion
- **Reduced Cost of Ownership** – Fewer cables mean less spares, repairs, maintenance, and logistics over the life of the system
- **Precision** – Replicates the effective range and ballistics of all potential ammunition, and provides real-time casualty assessments for after action reviews and learning
- **Modular Configuration** – Adapts to any wheeled or tracked tactical vehicle and is also configurable for buildings, fixed equipment and other structures

KEY COMPONENTS

Crew Control Module (CCM)

- Controller functions
- Display events with built-in audio
- Rich graphical interface
- Graphical step-by-step Installation Wizard
- Wireless or externally powered with internal backup battery for 100+ hours operation

Vehicle Kill Mast (VKM)

- 1,800 meter visibility
- 360-degree field of view
- 1Hz Flash Rate

Vehicle Kill Controller (VKC)

- Main system coordinator
- Performs casualty assessment using internal, configurable Probability of Kill data
- Records all events for AAR
- Provides data communications interface for Player Unit instrumentation and real-time monitoring and control
- Externally powered with internal backup battery for 100+ hours operation

Serial Module RF Interface (SMRFI)

- Provides RF communication inside and outside the vehicle
- No cable entry point required
- Extends coverage to wireless detectors

Vehicle Detector Module (VDM)

- PMT-90 compliant laser decode
- Wireless
- > 120 degree Field of View
- Single, user-replaceable L91 AA battery provides 900+ hours operation

Small Arms Transmitter (SAT)

- Fully qualified IWS SAT
- PMT-90 compliant
- Disabled when system is catastrophically or firepower killed
- Wireless
- Single, user-replaceable ½ AA battery provides 600+ hours operation