TMV Technology Capabilities

Current Safety/Enforcement Technologies

- EOBR (electronic on-board recorder)
- On-board brake stroke monitor
- On-board weighing system
- USDOT # Reader

Other Capabilities and Equipment

- FMCSA Laptop and Key Software
- 32” Flat Screen Monitor
- DVD Player
- Internal DC Power Supply (up to 8 hours)
- Optional AC Shore Power
- Self-Contained Safety Technology Demos

Possible Future Installations

- Lane departure technologies
- Collision avoidance technologies

Brake Stroke Monitor

Brake monitoring systems are proactive maintenance systems that provide instant identification of wheel specific, out-of-adjustment, non-functioning or dragging brake issues.

AC Shore Power

Since the TMV is equipped with DC power in-vehicle, shore power is needed to 1) charge the batteries that supply power to those outlets and 2) be used when running off battery power is not necessary

Electronic On-Board Recorder

EOBRs remove the need for paper logs by automatically recording duty status and location. EOBRs help improve fleet efficiency and compliance.

FMCSA Laptop

The laptop contains key software which helps enforcement officials perform inspections, look up information, etc. This computer also contains software for the USDOT # reader.

On-Board Weigh System

This technology allows for CMV operators to have knowledge of their steer, drive, and tandem axle group weights at all times, even while loading.

Flat Screen Monitor

With the flat screen monitor, making self-contained presentations is easier and viewable by a larger audience. Also it allows for quick demos since no hardware setup is required.

USDOT # Reader

Allows enforcement officials to quickly look up DOT # specific information and determine if any action is needed for that particular CMV.

Technology Demos

Self-contained technology demos help the TMV accomplish its task of educating enforcement and industry on state-of-the-art technologies in safety and enforcement.

Commercial Motor Vehicle Roadside Technology Corridor

FMCSA Federal Motor Carrier Safety Administration

Department of Safety Tennessee

TDOT

State Tennessee Trooper

Oak Ridge National Laboratory

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