Weigh-in-Motion

Virtual Weigh Station

Effective Enforcement at a Low Cost

Economical Solution

A virtual weigh station protects highways from overweight vehicles at a fraction of the cost of a fixed weigh station. There is no need for a full-sized static scale or a scale house with an operator on duty. Police can monitor vehicle weights and speeds from a hidden patrol car and stop violators.

Automatic Calibration

The automated calibration feature keeps your WIM system weighing accurately. There is no need to interrupt normal weighing operations with time-consuming manual calibration. Unlike other scales, the WIMvirtual™ system automatically maintains the accuracy needed to flag violators reliably.

Effective Enforcement

By accurately identifying overweight vehicles, a WIMvirtual™ system improves the efficiency of enforcement officers. Weighing a vehicle on a portable scale is a time-consuming operation. The fewer compliant vehicles a WIM system flags, the more violators officers are able to stop.

Turnkey Systems

METTLER TOLEDO supplies complete WIM solutions. Equipment can include WIM scales, static scales, controls, software, traffic signals, variable message signs, traffic loops, DOT cameras, overview cameras, and license plate readers.

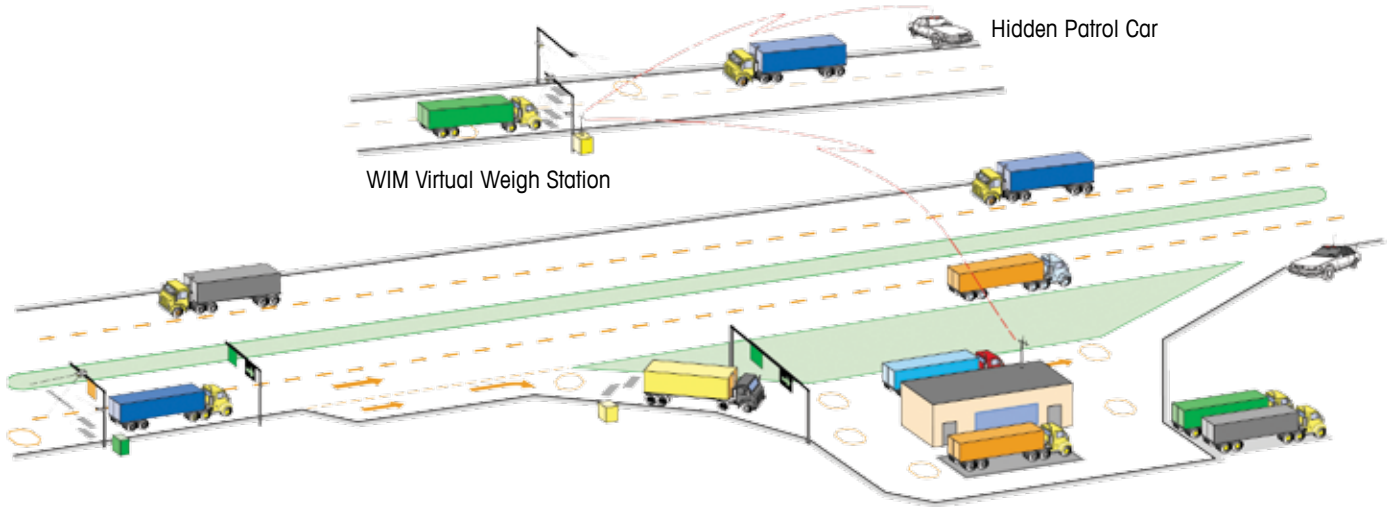
Virtual Weigh Station

A WIMvirtual™ system is an economical solution for enforcing vehicle weight limits. Whether installed on a main highway or a bypass route, this virtual weigh station stops violators at a fraction of the cost of a fixed weigh station. The weigh-in-motion (WIM) system captures detailed data about vehicles driving at speeds up to 80 miles per hour: weight, speed, license plate, and a photo of the vehicle. As soon as the system detects a violator, it uses wireless technology to alert a patrol car downstream of the scale or a traffic control center. Officers can then stop the vehicle and confirm that it is overweight by weighing it on a portable scale or directing it to a fixed weigh station. A WIMvirtual™ system can also be used to direct potential violators to an unattended weigh station where drivers weigh their vehicles on a self-service scale.

METTLER TOLEDO

Virtual Weigh Station

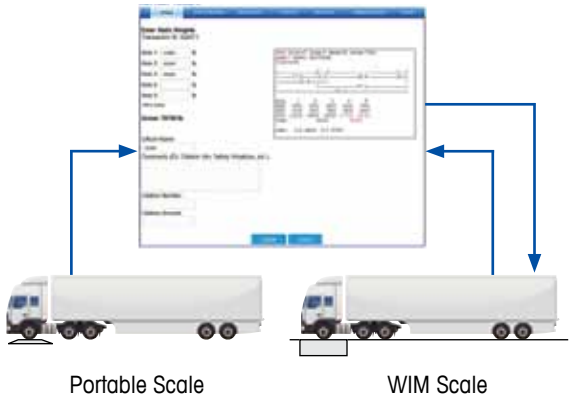
A virtual weigh station on a bypass route enables officers to catch violators who try to avoid a fixed weigh station on a main highway. WIMvirtual™ software records the information needed to identify each vehicle and monitor compliance: weight, speed, license plate, and a photo of the vehicle. Data is transmitted wirelessly to a hidden patrol car or remote weigh station. Officers can monitor vehicles in real time on a laptop computer or mobile device.



Automatic Calibration

Problem: Thousands of vehicles drive over WIM scales every day, and regular recalibration is needed to maintain optimal accuracy. As the scales lose accuracy, they either (1) tie up officers by flagging compliant vehicles or (2) allow violators to go free. Keeping most WIM scales accurate requires time-consuming manual calibration that disrupts the weighing operation.

Solution: WIMenforce™ automatic calibration continually compares vehicle weights from a WIM scale and a portable scale. Using a patented algorithm, the system automatically recalibrates the WIM scale to keep it consistent with the portable scale. Because the calibration procedure is fully automated, it does not interrupt normal weighing operations.



System automatically calibrates WIM scale using weights from portable and WIM scales.

Produced in a facility that is ISO 9001 certified

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