

Virtual Weigh Station

Cardinal's Virtual Weigh Station (VWS) offers the flexibility that you need to deal with limited resources and growing traffic volume. Cardinal's VWS Series In-motion Scale System measures the vehicle's axle weights while a high-speed camera captures an image of the vehicle and transmits it and the weight data to a waiting patrol car.



Data from the wireless transmission is shown on the laptop in the officer's patrol car in plenty of time to allow the officer to react. **Violations appear in red** allowing quick interpretation of the information.

The display shows the last seven vehicles with an enlarged image of the user-selected thumbnail. Axle weights and spacing along with vehicle speed, classification and gross weight are included. Provisions are included to allow the officer to enter notes specific to the selected vehicle.

Cardinal Virtual Weigh Station

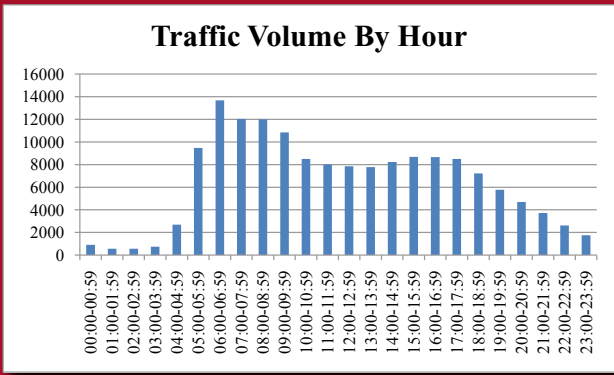
ALL Violations

- Tue Aug 14 11:55:05 C
36880 lbs
57.4 MPH
Class 9
Violation: Auto Over Weight
- Tue Aug 14 11:54:37 C
23140 lbs
55.8 MPH
Class 9
Violation: Undeclared
- Tue Aug 14 11:53:12 C
55120 lbs
55.8 MPH
Class 4
Violation: Axle Over Weight, Tandem Over Weight, Bridge Over Weight
- Tue Aug 14 11:51:52 C
8980 lbs
83.6 MPH
Class 15
Violation: Wrong Direction, Speeding, Speed Change
- Tue Aug 14 11:49:42 C
75250 lbs
52.9 MPH

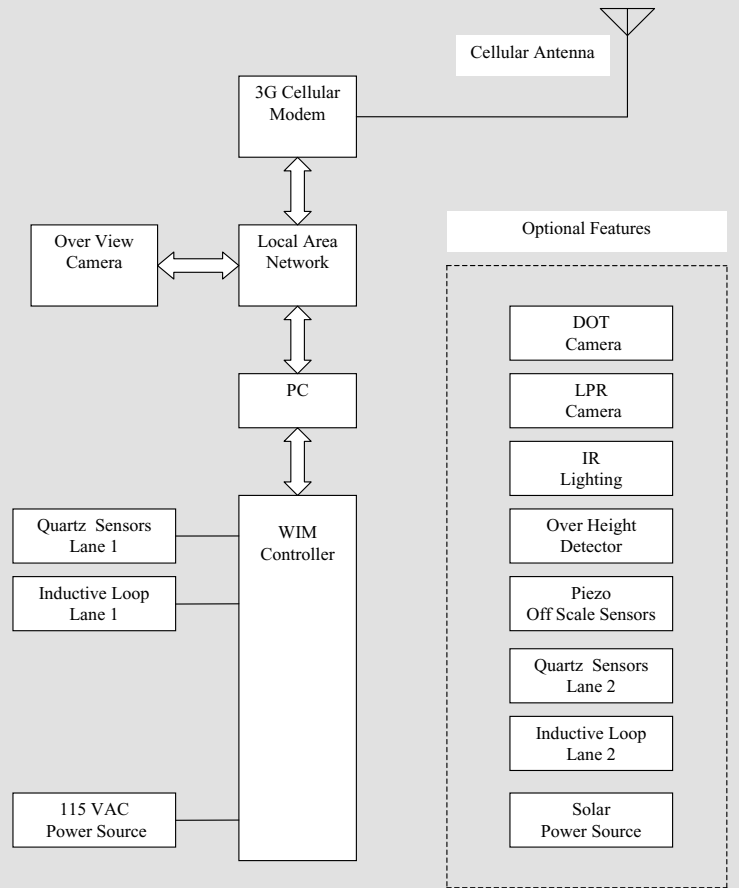
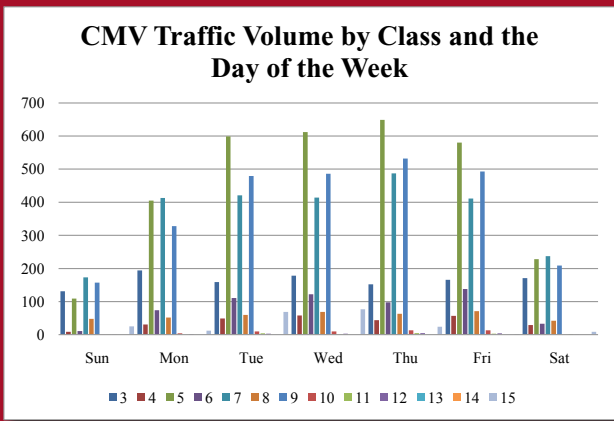
Tue Aug 14 11:49:44 CDT 2012
80660 lbs 55.1 MPH 59.4 ft Class 9
Violation: Gross Over Weight, Tandem Over Weight, Bridge Over Weight

4.1	34.0	4.2	17.1
17.1 16.9		17.7 17.8	11.2
34.0		35.4	46.7
	69.4		

Notes Log
Officer Note:
Click to save to server

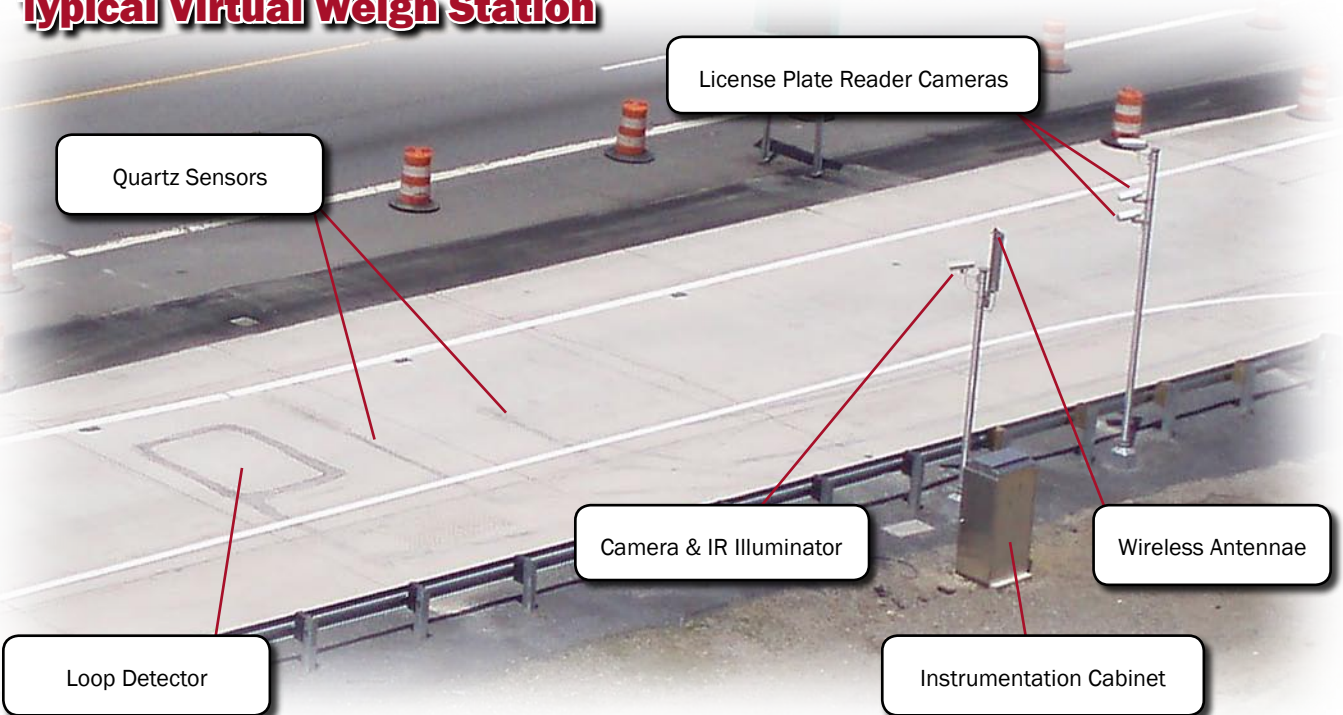


Statistical reports based on data from the virtual weigh station are available to aid in enforcement manpower-scheduling and road capacity studies.



Cardinal's Virtual Weigh Station employs a modular construction concept making service quick and easy. Robust components with expanded operating temperature range ensure reliable long-term operation.

Typical Virtual Weigh Station



Virtual Weigh Station Operator's Display

Thumbnail of Current Vehicle

Cardinal Virtual Weigh Station

All Violations

- Tue Aug 14 11:55:05 C
36880 lbs
57.4 MPH
Class 5
Violation: Aste Over Weight
- Tue Aug 14 11:54:37 C
23140 lbs
55.8 MPH
Class 9
Violation: Unbalanced
- Tue Aug 14 11:53:12 C
55120 lbs
55.8 MPH
Class 4
Violation: Aste Over Weight, Tandem Over Weight, Bridge Over Weight
- Tue Aug 14 11:51:52 C
8980 lbs
93.6 MPH
Class 15
Violation: Wrong Direction, Speeding, Speed Change
- Tue Aug 14 11:49:42 C
75250 lbs
52.5 MPH

Tue Aug 14 11:40:44 CDT 2012
80660 lbs 55.1 MPH 59.4 ft Class 9
Violation: Gross Over Weight, Tandem Over Weight, Bridge Over Weight

4.1	34.0	4.2	17.1
17.1 16.9	34.0	17.7 17.8	11.2
	69.4	35.4	46.7

Notes Log
Officer Note:
Click to save to server

Selected Vehicle Image

Time & Date

Gross Weight

Speed

Overall Axle Spacing

Vehicle Classification

Axle Spacing

Axle Weights

Combination Weights

Last Three Vehicles

Violations

Axle Layout

Notes



Nighttime images

For a fraction of the cost of a standard highway weigh station, a Cardinal Virtual Weigh Station can monitor one or more lanes of traffic 24-7. Real-time monitoring is available anywhere there is an internet connection. High-performance cameras coupled with high-intensity infrared lighting provide color images during daylight hours and black and white images at night.

Virtual Weigh Station

FEATURES:

- Cardinal VWS Series In-motion Scale Systems utilizing Kistler Lineas® quartz sensors meet or exceed performance requirements of ASIM 1318-09 for a Type III WIM.
- Multi-vehicle display simultaneously shows seven thumbnails and selected vehicles.
- Day/Night camera with high intensity IR illuminator provides clear images regardless of ambient light (required site evaluation).
- Environmentally controlled roadside traffic cabinet.
- Provides summary traffic reports.
- Low overhead Java/Web-based application works with a variety of Web browsers.

OPTIONS AVAILABLE:

- Off-scale sensors
- Over-height detection
- License plate readers
- DOT number readers
- Multiple lanes
- Multiple cameras
- Power options
- 802.11 or cellular interface
- Specific summary and statistical reporting
- Additional sensors for greater weighing accuracy

OTHER CARDINAL PRODUCTS:

- NTEP-certified multi-platform static vehicle scales with either hydraulic or strain gauge load cells
- Complete weigh station instrumentation packages
- Traffic control systems
- Scoreboard displays with optional traffic signal
- Custom application software



Cardinal Scale reserves the right to improve, enhance, or modify features and specifications without prior notice.



Sold By:

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