

# Weigh In Motion (WIM)

## Features

- Monitor load environment
- Train, Vehicle, and Wheel information
- Bi-directional traffic
- Automatic car counting and identification (with valid car library)
- Wired or wireless communications
- Robust hardware (20+ years of design and improvements)
- Self diagnostics
- Automated alarm notification



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## Weigh In Motion (WIM) with Load Imbalance and Overload Detection

Salient Systems Inc. has developed a state-of-the-art Weigh In Motion (WIM) system by building from the solid foundation that the WILD detector has provided the industry for more than 20 years. The WIM system is providing customers vital vehicle weight information for hazardous situations such as Overload or Load Imbalance conditions.

## Benefits:

Monitor individual vehicles

Monitor fleet performance

Reduce stress state

Compare operating practices

Improve safety

Reduce track damage

Reduce operations costs

**LB Foster**

Salient Systems

# Weigh In Motion (WIM)

## WIM Measurements:

- Wheel IDs (L1, R4) with:
  - Nominal load
  - Peak load
  - Dynamic load (peak-nominal)
  - Ratio (peak/nominal)
- Axle Loads
- Train Speed
- Merges AEI Car Tag IDs
- Total Train Length
- Total Tonnage (by train, week, and month)
- Weather information when equipped with weather station
- Additional modules available (Truck Hunting and WILD)



## System Specifications:

Operating speeds - 10 mph to 180 mph (16 to 300 km/h)

Resolution - 10 lb. / 50 Newtons

Accuracy - 1% Static / 2% Dynamic

Measurement zone - 50-foot / 16-meters

Hardened electronics in 19" rack

Power - 120/220 volts AC or 12/24 volts DC

Power - Approximately 4 amps at 24 volts DC

Electronic system operating temp. - -20°C to 55°C

**SALIENT SYSTEMS, Inc.**  
4393-K Tuller Road  
Dublin, OH 43017

Phone:  
614.792.5800

Fax:  
614.792.5888

Email:  
[information@salientsystems.com](mailto:information@salientsystems.com)

Web:  
[www.salientsystems.com](http://www.salientsystems.com)