INTERNATIONAL ROAD DYNAMICS INC.

www.IRDINC.com www.VI2M.com

International Road Dynamics Inc. (IRD) is a multi-disciplinary Intelligent Transportation Systems (ITS) company with the expertise to develop integrated technical solutions to solve unique and challenging transportation problems.

For over 37 years, IRD has been recognized as a world leader in the design, development, and deployment of customized technology solutions for the ITS industry. Today, IRD offers a growing portfolio of related services and solutions, bringing new technology to transportation planning, operations, and management by harnessing the power and value of the Internet of Things to deliver transportation intelligence.
OVER-LOAD DETECTION
Bridge Protection Solution for Enforcement Agencies

DETECT
Prevent damage to bridges from overloaded vehicles using IRD’s Weigh-In-Motion systems:
- Monitor truck weights in advance of bridges and on the structures themselves
- Protect bridges that are under load restrictions due to distress
- Photo capture of overweight vehicles
- License plate number recognition
- System may be interfaced to message signs to notify truckers to divert and not use the bridge

MEASURE
Screening
- Identify overweight vehicles approaching bridges
- Continual monitoring by enforcement agencies enables the rerouting of overweight vehicles before they can do damage to bridges that are compromised or that were built to support lighter vehicles
- Automatic bridge formula calculations
- Screening against safety databases

ANALYZE
Reports and Analysis
- Identify vehicle and traffic trends
- Screening performance metrics
- Vehicle selection for inspection
- Single and integrated multi-site networks
- Bridge planning and design data
- Evaluate the impact of truck loads on monitored bridges
BRIDGE TRAFFIC DATA ANALYSIS
Traffic Data for Loading Assessment

DETECT
Sensors and Systems
- Live load monitoring
- Discreetly collect unbiased data
- Continuous data collection (permanent installations)
- Temporary studies (portable/temporary systems)
- Continuous data collection (permanent installations)
- Flag vehicles for enforcement

MEASURE
Monitor current loads on bridges
- Axle, axle group mass, and gross vehicle weights
- Axle loads and gross vehicle weight (GVW)
- Axle distances and vehicle lengths
- Number of axles
- Lane position
- Tire configuration: single, dual, super-single
- Calculation of road damage
- Calculation of ESAL

ANALYZE
Enterprise Software & Data Solutions
- Produce real-time vehicle reports
- Generate custom and user-defined historical reports
- Improve understanding of bridge performance and optimize the management of bridges
- Evaluate the effect of increased truck loads on the durability of bridges
- Analyze data on the actual characteristics of trucks using bridges
- VI2M™ cloud-based data collection, reporting and analytics
- Exports data compatible with other systems
The World Leader in Weigh-In-Motion

International Road Dynamics is the leading company in the WIM segment of the Intelligent Transportation Systems (ITS) Industry. IRD provides international sales, installation, and service for a full range of weigh-in-motion sensors and scales, including Single Load Cell (SLC) scales, IRD-PAT Bending Plate® scales, strip scales, piezoelectric sensors, and quartz sensors.

IRD can advise on the best option for your application so that your needs are met for accuracy, traffic speeds, and expected service life. Depending on the sensor selected, and road surface thickness, WIM may be installed in the roadway ahead of the bridge or on the bridge deck itself.

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Contact Us: info@irdinc.com

IRD products and components are protected by one or more worldwide patents and/or trademarks. IRD reserves the right to change, modify, or improve its products at anytime without notice.

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• 2015

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1 in 3 U.S. bridges have identified repair needs and 54,259 of the nation’s 612,677 bridges are rated “structurally deficient”.

Source: ARTBA 2018 Deficient Bridge Report

Over 20,000 Traffic Monitoring Lanes Worldwide
Over 100 Million Vehicles Classified/Day

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