



INTERNATIONAL ROAD DYNAMICS INC.

Corporate Offices: Canadian - 702 43rd St. E. Saskatoon, SK S7K 3T9  
U.S. – 2402 Spring Ridge Drive, Suite E Spring Grove, IL 60081

## **BUSINESS UPDATE ONLY - NON-MATERIAL INFORMATION**

### **IRD PROVIDES PROTECTION FOR BRIDGES AND OVERPASSES**

**August 24, 2004** – While not a common occurrence, when overhead structures such as bridges and highway overpasses are struck by over-height trucks, a serious safety hazard, and significant damage to the vehicle and structure can occur. High costs are typically incurred with the subsequent delays created during the removal of the vehicle and repair of the structure, as well as the property damage to the vehicle and structure. IRD (International Road Dynamics Inc.) offers a practical solution to this problem with its Vehicle Over-Height Detection and Warning System. The system detects vehicles approaching areas with height restrictions such as bridges, overpasses, traffic tunnels and warehouse entrances to determine if there will be a height conflict.

The IRD Over-Height Detection and Warning System detects the conflict situation and provides a warning message to the driver of the impending danger and directs the driver to take an alternate route. In many instances, this can delay the need to construct a new structure or the requirement to make expensive structural alterations.

The IRD Over-Height System is comprised of a transmitter and receiver. The transmitter contains either an infrared or high intensity, visible red light source that is pulsed across the roadway from the transmitter to receiver. When the system detects an over-height vehicle, a message is transmitted to a warning device, such as flashing lights on an information sign or a Variable Message Sign, to alert the driver. Typically, the communications between the over-height detector and the electronic sign are wireless. In addition, an audible alarm can be sounded to warn the driver.

IRD Technology can also be used to reduce damage to bridges and road surfaces due to over-loaded trucks and highway vehicles. IRD's WIM (Weigh-In-Motion) technology can play a vital role in this respect by monitoring bridge loading, especially for bridges that are under load restrictions due to distress. As a first step, the WIM System can collect data on the traffic which is traveling across the bridge. From this data, authorities can determine the loadings on the bridge and take the appropriate counter-measures to protect the bridge structure. WIM can also be used to inform a driver that the vehicle is in excess of weight restrictions and can be integrated with an electronic message sign to advise the driver to not travel across the bridge and/or take an alternate route. Additionally, the WIM can be integrated with a video tracking, monitoring and image grabbing system to ensure that vehicles obey the signals and warnings when advised to not cross the bridge.

For further information or if you have any questions, please click the following link: [http://www.irdinc.com/english/html/sys/safety/overheight\\_vehicle.htm](http://www.irdinc.com/english/html/sys/safety/overheight_vehicle.htm) or contact Brian Taylor at tel: 306-653-6600 or at e-mail: [brian.taylor@irdinc.com](mailto:brian.taylor@irdinc.com).

IRD is a highway traffic management technology company specializing in supplying products and systems to the global Intelligent Transportation Systems (ITS) industry. IRD is a North American company based in Saskatoon, Saskatchewan with sales and service offices throughout the United States and overseas. Private corporations, transportation agencies and highway authorities around the world use IRD's products and advanced systems to manage and protect their highway infrastructures.

IRD is listed on the TSX – trading symbol – IRD  
[www.irdinc.com](http://www.irdinc.com)