

## IRD Truck Advisory Safety Systems

### MANUFACTURER AND VENDOR INFORMATION

Effective Date: March 22, 2000

Manufacturer name: International Road Dynamics, Inc.

Sales representative name(s): Rod Klashinsky

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**PRODUCT NAME/MODEL NUMBER:** IRD Truck Advisory Safety Systems

**FIRMWARE VERSION/CHIP NO.:** NA

**SOFTWARE VERSION NO.:** NA

**GENERAL DESCRIPTION OF EQUIPMENT:** The IRD Truck Advisory Safety Systems determine truck speed, weight, height and classification (based on axle configuration). Using this information the systems are capable of displaying messages on a roadwide sign to instruct drivers to slow down prior to a sharp turn in the road or to proceed at a recommended speed prior to a steep decline in the road.

**SENSOR TECHNOLOGY AND CONFIGURATION:** The system typically uses an inductive loop-Class I piezo sensor- Class I piezo sensor-loop configuration.

**SENSOR INSTALLATION:** Sensors are saw-cut and grouted into the roadway. Sensor leads are run through conduit to a roadside cabinet.

**INSTALLATION TIME (Per Lane):** Depending on the application, installation of the in-road sensors, signs and associated electronics may take from 2-weeks to a month.

**INSTALLATION REQUIREMENTS:** Please see attached product information for details.

**MAXIMUM NUMBER OF LANES MONITORED SIMULTANEOUSLY:** Typically only a single lane of in-road equipment is required for the IRD Safety Systems.

**PRODUCT CAPABILITIES/FUNCTIONS:** Truck Rollover Advisory, Downhill Truck Speed Advisory, and Runaway Truck Traffic signal control.

**RECOMMENDED APPLICATIONS:** Truck Rollover Advisory, downhill Truck Speed Advisory, and runaway Truck Traffic Signal control.

**POWER REQUIREMENTS (watts/amps):** 2.5 Amps/35 Watts (For the WIM electronics)

**POWER OPTIONS:** 100-240 VAC, 50-60 Hz. (For the WIM electronics).

**CLASSIFICATION ALGORITHMS:** Vehicles can be classified based on axle weights, axle spacings, axle groupings and GVW.

**TELEMETRY:** Terminal software and standard telephone line with modem are required.

**COMPUTER REQUIREMENTS:** Pentium II or better, 400 MHz min., 32 Mb RAM min., Expansion slots 1 ISA, 3 PCI, 1 ISA/PCI.

**DATA OUTPUT:** Individual vehicle and vehicle summary data are stored on the WIM computer which can be retrieved through a modem. Individual vehicle data can also be sent to an RS 232 port on the WIM in real-time.

**DATA OUTPUT FORMATS:** The vehicle information is stored on disk files in a compressed format developed by IRD. Software is available to convert the data to CSV (Comma, Separated Value) file. Several industry standard formats are available for the WIM vehicle data transmitted through the RS 232 port.

**SUPPORTING DATA BASE MANAGEMENT SYSTEM:** Report generation software is available from IRD that reads the compressed vehicle data files directly. Raw data can also be exported to a file which can be read by any database system.

**EQUIPMENT AND INSTALLATION COSTS (One-lane and four-lane):**

1-lane: \$ 150,000 US and 4-lane: \$ 300,000 US

**STATES CURRENTLY USING THIS EQUIPMENT: (Use back of page if needed)**

<u>Country/State</u>	<u>Contact name</u>	<u>Telephone number</u>
USA/Pennsylvania (PennDot)	Jim Garling	(717) 787-3656
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