

## IRD 1068 Piezoelectric WIM System

### 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 1068 Piezoelectric WIM System

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

**SOFTWARE VERSION NO.:** NA

**GENERAL DESCRIPTION OF EQUIPMENT:** The IRD 1068 Piezoelectric WIM system utilizes piezoelectric sensor technology to collect data on axle weights, vehicle classification (based on the number and spacing of axles) and vehicle speed. The system is accessible remotely using a standard telephone communication modem and PC for system monitoring, set-up and data collection.

**SENSOR TECHNOLOGY AND CONFIGURATION:** the system uses an inductive loop-class I piezo sensor-class I piezo sensor-loop configuration to collect traffic data.

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

**INSTALLATION TIME (Per Lane):** Approximately 1/2 day per lane.

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

**MAXIMUM NUMBER OF LANES MONITORED SIMULTANEOUSLY:** Eight

**PRODUCT CAPABILITIES/FUNCTIONS:** Vehicle WIM data collection.

**RECOMMENDED APPLICATIONS:** Vehicle WIM data collection.

**POWER REQUIREMENTS (watts/amps):** 2.5 Amps/35 Watts

**POWER OPTIONS:** 100-240 VAC, 50-60 Hz.

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

**TELEMETRY:** Terminal software and standard

**COMPUTER REQUIREMENTS:** Pentium II or better, 400 MHz min., 32 Mb RAM min., Expansion slots 1 ISA, 3PCI, 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 file which can be read by any database system.

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

1-lane: \$ 25,000 US

4-lane: \$ 40,000 US

**STATES CURRENTLY USING THIS EQUIPMENT:**

<u>Country/State</u>	<u>Contact name</u>	<u>Telephone number</u>
USA/California (CALTRANS)	Rich Quinley	(916) 645-5651
USA/New Jersey (NJ DOT)	Lou Whiteley	(609) 530-3501
USA/Indiana (IN DOT)	Don Klepinger	(317) 594-5264