



**We make  
highways  
talk™**

- **MANAGEMENT**
- **SAFETY**
- **PRESERVATION**

*International Road Dynamics Inc. develops and maintains traffic management products and systems technology that make highways talk. What are they saying? They are providing information that roadway administrators need to manage traffic, preserve infrastructure and provide safety warnings to drivers.*

*IRD's multi-discipline, innovative and customer-focused team is expert in advanced technologies, advanced traffic solutions and custom-designed systems.*



**INTERNATIONAL ROAD DYNAMICS INC.**  
[www.irdinc.com](http://www.irdinc.com)

## **TCC 540 WIM**

### **Portable Weigh-In-Motion Counter/Classifier**



International Road Dynamics Inc. (IRD) is proud to introduce the IRD TCC 540 WIM, a comprehensive unit which combines all of the features of the IRD TCC 540 traffic counter and classifier with the added function of Weigh-in-Motion (WIM).

With the added Weigh-in-Motion feature, the IRD TCC 540 WIM can now provide more in-depth information and data for your traffic planning. Data can be grouped according to classification, speed, time, or weight, depending on your needs.



#### **FEATURES**

- Completely portable - Can be used at temporary or permanent sites
- Powered by AC/DC or solar (optional)
- Low cost and lightweight
- Data collection for up to 8 lanes of Piezoelectric WIM
- User-friendly software
- Comprehensive reporting capabilities
- Program and download data via laptop, PC or modem

# TCC 540 WIM WEIGH-IN-MOTION COUNTER/CLASSIFIER

## Specifications

<b>Capabilities:</b>	Count up to 16 lanes, classify up to 8 lanes or weigh up to 8 lanes. Collect vehicle count, classification, gap, headway, speed, length, speed by axle, speed by length, axle weight, and gross weight information.
<b>Counting Modes:</b>	Time Interval - collect and sort data by user-defined time intervals
<b>Classification Modes:</b>	Binning - user definable up to 30 speed, 30 axle, 30 headway and 30 gap bins, speed by axle and speed by length, FHWA Scheme "F" default Individual Vehicle Records (Raw) - time of passage to 1/100 second, speed to 1/100 mph or kph, number of axles and axle spacing for each vehicle stored in memory (Data for approximately 5000 vehicles can be stored in 68K of memory using this mode)
<b>Special Modes:</b>	Time Stamp - sensor activations (accurate to 1/10695 of a second) stored in memory
<b>WIM Modes:</b>	WIM: Individual Vehicle Records (as defined above) plus axle weight and gross vehicle weights WIM + Bin: Binning plus WIM Autocalibration capabilities
<b>Sensor Configurations:</b>	Piezo Piezo Loop Loop Piezo Loop Piezo Loop Piezo Loop Loop Piezo Piezo Loop Piezo Piezo Loop Loop Piezo Loop Piezo
<b>Vehicle Classification:</b>	User definable (customized) and default standard classification schemes
<b>Recording Intervals:</b>	Can have up to 5 different intervals per day with interval lengths from 1 minute to 24 hours
<b>Data Retrieval:</b>	Through telephone modem, IBM compatible computer, or handheld "Datahog" device
<b>Standard Model Configurations:</b>	Multiple combinations of loops, road tubes, DYNAX® sensors and piezoelectric inputs for permanent or portable use
<b>Programming:</b>	From counter keypad and display, IBM compatible computer, or remotely with telephone modem
<b>Telemetry:</b>	Ready with addition of external modem; standard RS-232 port with speeds from 300 to 19,200 baud; cellular option
<b>Units:</b>	User selectable metric or US units
<b>Time &amp; Date:</b>	Multi-year calendar with leap year and Daylight Savings Time adjustment
<b>Sensor Inputs:</b>	4-16 loops (30-500 microhenries), 8 piezoelectric sensors (for WIM or axle count), 8 IRD DYNAX® Sensors
<b>Memory:</b>	1Mb RAM standard with 32 Mb additional on WIM board
<b>Serial Outputs:</b>	2 Serial output ports: Standard control, data transfer Send vehicle record data out
<b>Alarms:</b>	Send alarm output to device - Can program up to 4 WIM alarms which activate the alarm outputs (optional) on the WIM board
<b>Keypad:</b>	16 keys fully sealed and weatherproofed; optional units with no keyboard/display can be programmed and monitored from any IBM-compatible laptop or desktop computer
<b>Display:</b>	Liquid Crystal Display, 4 line by 20 characters, alphanumeric
<b>Temperature Sensing:</b>	Internal temperature sensor, road temperature sensing (optional)
<b>Electronics:</b>	Low power, microprocessor-based, modular construction, plug-in printed circuit boards for easy serviceability
<b>Power:</b>	6 volt, 12-amp hour rechargeable lead acid gel type battery, optional dual battery unit, inadvertent power-off protection to prevent data loss, solar option
<b>Environmental:</b>	0°C to 70°C (+32°F to 158°F), 20 to 90% non-condensing relative humidity
<b>Case:</b>	10 gauge (2.6 mm, 0.102") welded aluminum, ANSI 70 grey powder paint finish, lockable, splashproof enclosure with Military spec connectors
<b>Size:</b>	27 cm x 36 cm x 18 cm (10.75" x 14" x 7")
<b>Weight:</b>	6.8 kg (15 lb)

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### Corporate Offices

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Publicly Traded on the TSX (Symbol IRD)  
Find out more about IRD on our website: [www.irdinc.com](http://www.irdinc.com)

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