ORIUX
Experts in Mobility

ADR Pulsar
Portable Traffic Counter/Classifier

Pulsar is the latest, portable traffic data recorder from Oriux, the industry leader for decades. The Oriux pedigree ensures that Pulsar will provide years of reliable, highly accurate performance. Pulsar reliability is achieved by combining a rugged, lightweight, single piece, aluminum housing with encapsulated electronics and lithium battery. The advanced electronics, combined with an extremely refined data processing algorithm, enable study accuracy comparable to the Oriux ADR1000, the "workhorse" of the traffic industry.
In addition to accuracy and reliability, the Pulsar was designed for ease of use. For example, the nozzles that connect road tubes to the Pulsar are custom designed. They have been optimized to easily and securely accept either standard or "mini" road tubes.

Further, the Pulsar provides generous space around the nozzles. This simple feature enables easy installation and removal of road tubes, even while wearing gloves or using tools, saving valuable time while roadside.
A USB port enables communication to a Windows based PC using an off-the-shelf, low cost USB cable. This enables:
- transfering traffic study data from the Pulsar to a PC;
- performing Pulsar setup and;
- monitoring operation of the Pulsar.

Even though the USB port is protected by an attached rubber seal that is very easy to use, the USB port is weather resistant and washable, with gold plated contacts.
If you need road tube based traffic studies that are cost effective, simple to perform and provide highly accurate results, the Oriux Pulsar is your solution.

The Pulsar stores traffic data as time-stamped "events" in a state-of-the-art, rugged, small and lightweight electronic module. Pulsar Reporter software uses the data collected by the Pulsar to produce a variety of traffic studies including volume, axle based classification and speed.

The USB port is also compatible with Oriux's innovative Street-Link. (Optional accessory, sold separately. With a very intuitive, easy-to-use interface, the rugged, handheld StreetLink is well suited to field use. The Street-Link:
- makes monitoring road tube operation in the field easy;
- can check Pulsar memory and battery levels;
- and, with a built in GPS, can load GPS coordinates and GPS time for each study site with "single pushbutton" ease. Pulsar Reporter Software, included with the Pulsar, was also designed for ease-of-use. It doesn't matter whether you are completing a simple, single tube, volume study, or a two tube classification and speed study; Pulsar Reporter will assist in generating the appropriate report. Just provide a few parameters. Pulsar Reporter will do the rest. In addition to volume, class and speed summary reporting, Pulsar Reporter offers multiple features such as:
  - graphing;
  - "per vehicle" detail listings;
  - and importing images to customize your report heading.

Also, study results may be exported in multiple data file formats including PDF, XLS, CSV or Oriux PRN. This enables the data to be transferred for use in virtually any other software system.

Whether you need a small, lightweight option for producing accurate vehicle classification and speed studies, or you are looking for an alternative to the limited capabilities of simple tally accumulators, the Oriux Pulsar is your solution.

The evolution of PEEK

Features
& Specifications
Overview

Hardware:

- Records time stamped, event data (e.g. wheel strikes on road tubes)
- Compatible with optional Oriux Street-Link for:
  - "One-button sync" to GPS location and time
  - Easy in-field monitoring of vehicle detection by road tubes
  - Performing quick check of Pulsar battery and memory
- Rugged, black anodized, single piece aluminum housing with ~¼" thick walls
- Dimensions: 5" x 4.2" x 2.2" (12.7cm x 10.7cm x 5.6cm)
- Weight: 1.7 pounds (771 grams)
- Operating Temperature Range: -40F to 185F (-40C to +85C)
- Inputs: one or two road tubes:
  - Custom, "stepped diameter," barbless road tube nozzles:
    - Easily & securely accepts standard 3/16" ID, ¼"ID or mini-road tubes
  - Generous space around nozzles allows easy road tube mounting and removal
  - Supports spacing between road tubes to as small as 2 feet.
- Electronics:
  - Fully encapsulated
  - Memory:
    - Store events for more than 1 million vehicles.
    - Memory can be erased for "unlimited" re-use
    - "No limit" on number of studies stored by a unit at one time
  - Processing precision: 30.5 microseconds
- Communications: USB standard B type connector, sealed, washable, gold plated contacts
  - Compatible with, low cost, commonly available USB cable (sold separately)
  - Up to 12 Mbps communications speed enables transfer of data for typical traffic study in seconds
  - Custom molded, attached rubber seal; "instant" open & seal without tool or key
- Power: 5 years minimum operation encapsulated lithium battery – no re-charging
- Security: two extra-large (2 inch long) oval openings allow easy use with chains, cables and locks (security cable and locks sold separately)

Software:

- PC based compatibility for Windows 7 and above
- Simple to use, intuitive, graphical user interface
- User selectable study type, and report options including time & date range
- User selectable reports for vehicle volume, classification, speed and PVR depending on available data
- Ability to re-run data to produce new studies
- Advanced algorithms provide excellent data accuracy for typical road types and traffic conditions
- Graphics output capability
- Export data to other software using any of more than 10 formats including PDF, XLS, CSV, Oriux PRN
- GPS data, when loaded into Pulsar by the optional Street-Link, enables access to Google Maps to verify study location
- Import image into reports for customized headings
- Monitor operation of road tubes in real-time using PC connected to Pulsar
- May be used to choose and extract a subset of stored data to create a unique study file
- FHWA Scheme F vehicle classification or user selectable class scheme Pulsar Reporter software is provided with Pulsar purchase

(Street-Link optional accessory)

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