Tube Counts Made Easier

TRAX
PINNACLE

```
CH:1  AX: 5  #V: 007389
CLS: 09   35 MPH    B>A
GAP:15    9.7  4.7
          23.5  4.7
```

- **Portable Road Tube Data Collector**
- **Highly Accurate, Easy To Use**
- **4 Level Verification:**
  - **Onboard GPS for Site Verification**
  - **LiveView for Setup Verification**
  - **Built-in Diagnostic for Tube Verification**
  - **STARnext Software Data Verification**

- **Precision Axle Time Stamps**
- **Collect Automotive & Bicycle Data**
- **Weighs Less Than Three Pounds**
- **Watertight Pelican Case**
- **Real Time & Date Clock**
- **Full Keypad and LCD Display**
- **No Battery Maintenance**

JAMAR
Technologies, Inc.

Making Data Collection Easier

The PINNACLE...
...of TRAX Data Recorders

For more than 40 years, JAMAR has set the standard in pneumatic traffic recorders. Now we've reached the Pinnacle in the development of these data collectors. Introducing the all new TRAX Pinnacle... the most advanced, yet simplest to use TRAX ever. The TRAX Pinnacle allows you to easily and accurately collect comprehensive time-stamped traffic data at multiple locations. This data can then be processed with the powerful STARnext software to provide volume, speed, class, gap and more information all from one data file. The TRAX Pinnacle also comes with our 4 Level Verification process, which allows you to be sure the Pinnacle was configured correctly, the road tubes are in good working order, the unit was placed at the correct location and that the resulting data has not been modified.

Virtually everyone who uses JAMAR TRAX data recorders prefer them over what they have used in the past. Our quality and reliability are unequaled. **In short, you won't find a better solution to your traffic data collection needs.**

### • The Power and Flexibility of Axle Time Stamping

In storing its data, the Pinnacle time-stamps every axle recorded during the count. Once the data is downloaded to the STARnext software, this time-stamped data can be processed to get traffic volume, speed, classification and gap data – all from a single data set.

Now, imagine that you start looking at your data and realize that something is wrong, the data isn't what it's supposed to be. With most counters that use traditional data recording, you are left with no alternative but to do a costly recount and, what's worse, you might not even know what went wrong.

Time-stamped data is different.

With axle time-stamped data, you can fully investigate how every data point was recorded during a count and, what's more, time-stamped data actually lets you fix problems <u>after</u> the data has been collected.

For example, you can view the time-stamps of individual vehicles to determine if the road tubes were hooked up backward or at the wrong spacing (two very common mistakes) and fix either of these problems without having to do a costly recount.

**Graph & analyze time-stamps**

View Individual Time Stamps
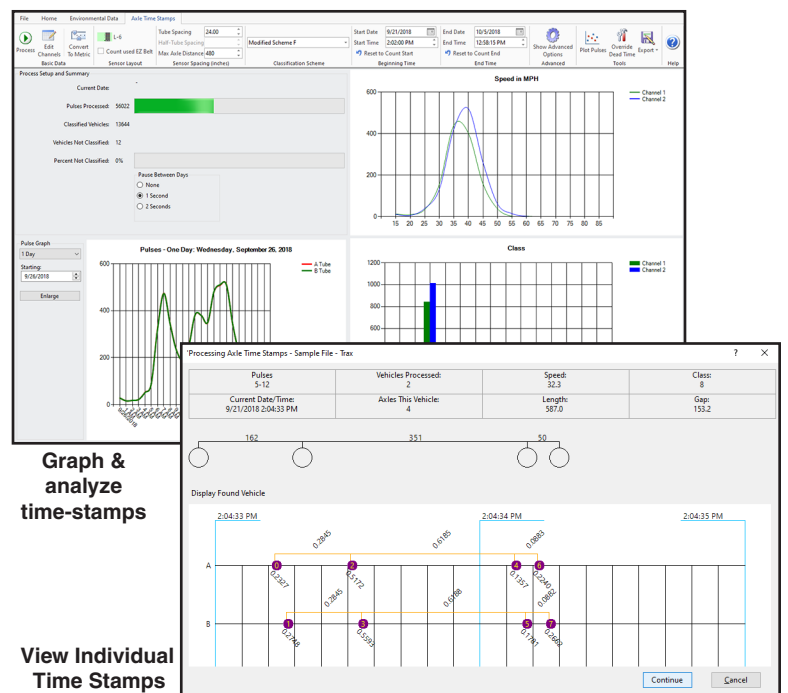
• 4 Level Verification – Location Confirmation

The TRAX Pinnacle contains a GPS receiver that will download the count location coordinates to memory when the data collection is started. It will then re-download the coordinates throughout the span of the count. The software analyzes the coordinates throughout the count, verifies whether the counter has been moved and provides a master latitude & longitude for the count.

• 4 Level Verification – Setup Accuracy

The LiveView status screen that's available during a study allows you to confirm that everything has been set up correctly. As a vehicle crosses the tubes, the Pinnacle will display the vehicle's classification and speed, allowing you to verify that the vehicle you saw was what was recorded. Additional information such as the number of axles, axle spacings, and time gap from previous vehicle are also provided.
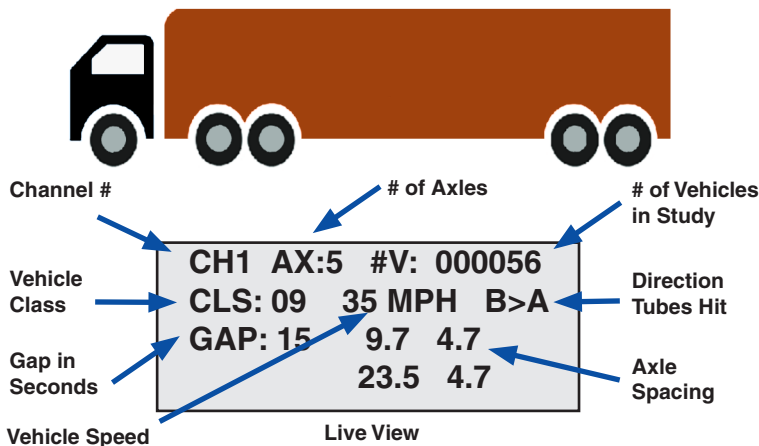
• No Battery Charging – Long Life Lithiums

One of the best things about the new TRAX Pinnacle is that it doesn't require routine battery maintenance. The recorder is powered by two internal high-capacity lithium batteries. These batteries will typically last years before needing to be replaced.

Use of these lithium batteries also means that you don't have to lug around a heavy lead gel cell battery, like with most other traffic recorders. In fact, the Pinnacle weighs less than 3 pounds.

• Watertight, Crushproof Case

The Pinnacle uses a watertight, crushproof polypropylene copolymer case that makes it extremely durable, greatly reducing the potential for costly water damage and downtime for repairs.

• 4 Level Verification – Data Integrity

Data Integrity Verification allows you to be sure that the data you are seeing is a true representation of the data that was collected and has not been substantially altered. The data verified lock is applied to any data that has been directly processed from axle time stamps or the per vehicle table. Data that has been manually modified will be shown as unlocked and unverified.

• 4 Level Verification – Road Tube Diagnostics

Few things are more frustrating than spending time & money to do a traffic study only to find out later the data is not usable because of road tube problems. The cost to recount can easily reach hundreds of dollars. The TRAX Pinnacle uses built-in diagnostics to analyze the strength of air pulses that are received from road tubes. This information is then displayed on the screen in an easy to understand format for your review. With this information you can diagnose situations where a tube may be good enough to record data for a few hours, but will fail long before the study is complete, enabling you to reduce the need for recounts.

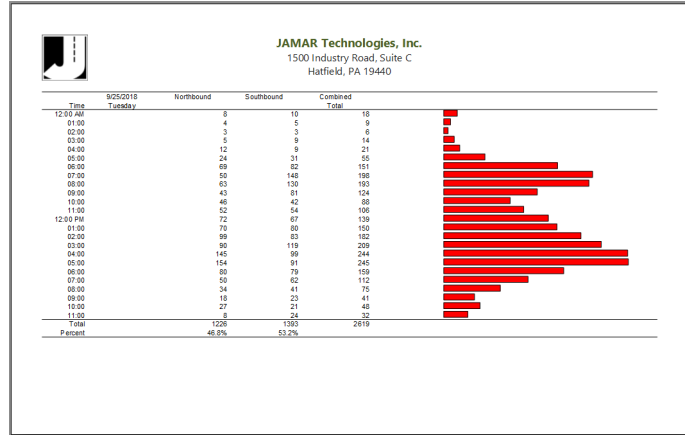## • Record both Automotive and\or Bicycle Traffic

The TRAX Pinnacle system incorporates a unique combination of hardware and software modifications to make it possible to accurately count bicycle and automotive traffic. Data can be accurately collected in a variety of scenarios, including bikes trails, dedicated bike lanes with automotive lanes or mixed use lanes.

The Pinnacle's hardware contains ultra sensitive air switch sensors and processing to accurately detect both standard automotive and bicycle traffic. The STARnext software is able to sort the axle time stamp that have been recorded to separate out automotive vehicles from bicycles.
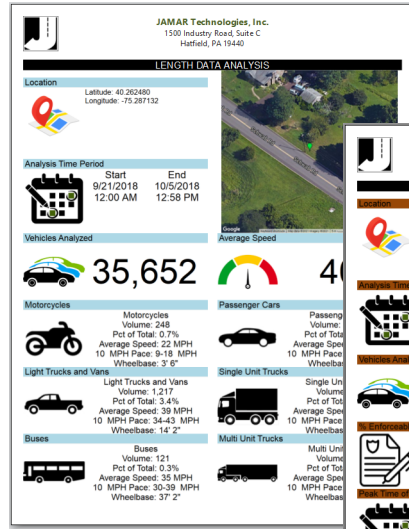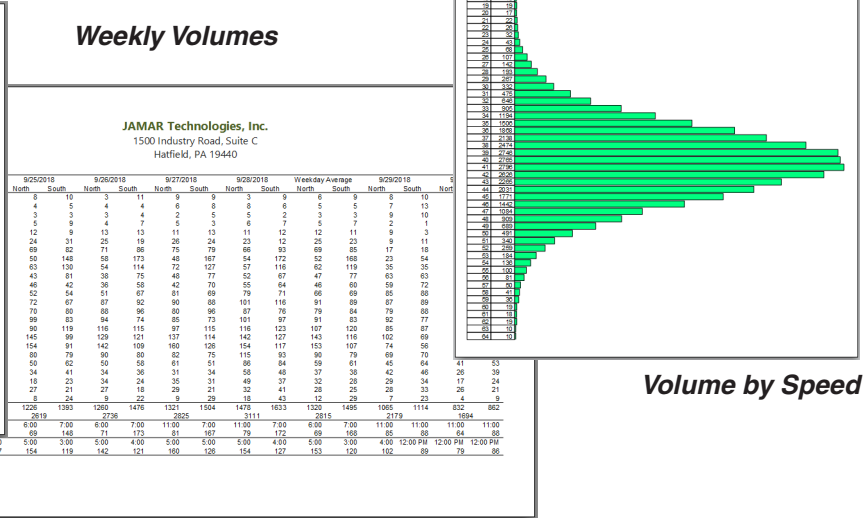
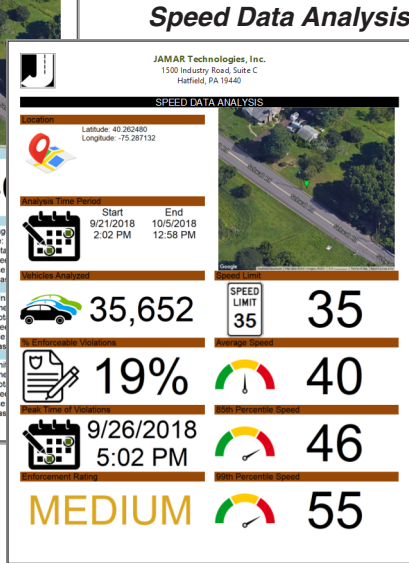## • Produce a Wide Variety of Reports with the STARnext Software

STARnext contains a wide range of default reports and graphs, for all types of data. Whether its volume, class, speed, gap or length, a full spectrum of statistical analysis is provided. Finished reports can also be electronically output to Adobe PDF or Rich Text format.

Daily Volumes

Weekly Volumes

Volume by Speed

Class Data Analysis

Speed Data Analysis

Specifications

Size: 8.25" x 6.5" x 3.5"

Weight: Approx. 2.5 pounds

Case: Watertight, crushproof Polypropylene Copolymer

Battery: Long life Lithium Batteries

Interface: USB 'B' Port & USB 'A' Port

Download Speed: Up to 115200 bps

Memory: 8 MB Internal Memory

Clock: Always active real-time clock

Display: Wide Temp, 4-line by 20-character LCD display

Output: Binary file read by JAMAR STARnext software

Diagnostics: Built-in tests for memory, display, and keys

Data Collection Formats: Volume, Time-stamp

Inputs: Four Road Tubes

Temperature Range: -40F (-40C) to 165F (74C)

Units: English (feet) or Metric (meters)

Date Format: USA (MM/DD/YY) or World (DD/MM/YY)

• Unmatched Technical Support and Service

Top-notch technical support and service are another great feature you get when buying a JAMAR product like the TRAX Pinnacle. All technical support is free. You do not need a maintenance or service agreement in order to get technical support for either the TRAX Pinnacle or STARnext software.

Support can be found in a number of areas, and is as close as your nearest phone or computer. Our toll free 800 number can be used for direct support inquiries and we also provide the most extensive on-line support resources in the industry at www.jamartech.com. JAMAR User's Manuals also contain detailed instructions and tutorials on how to use your product.

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