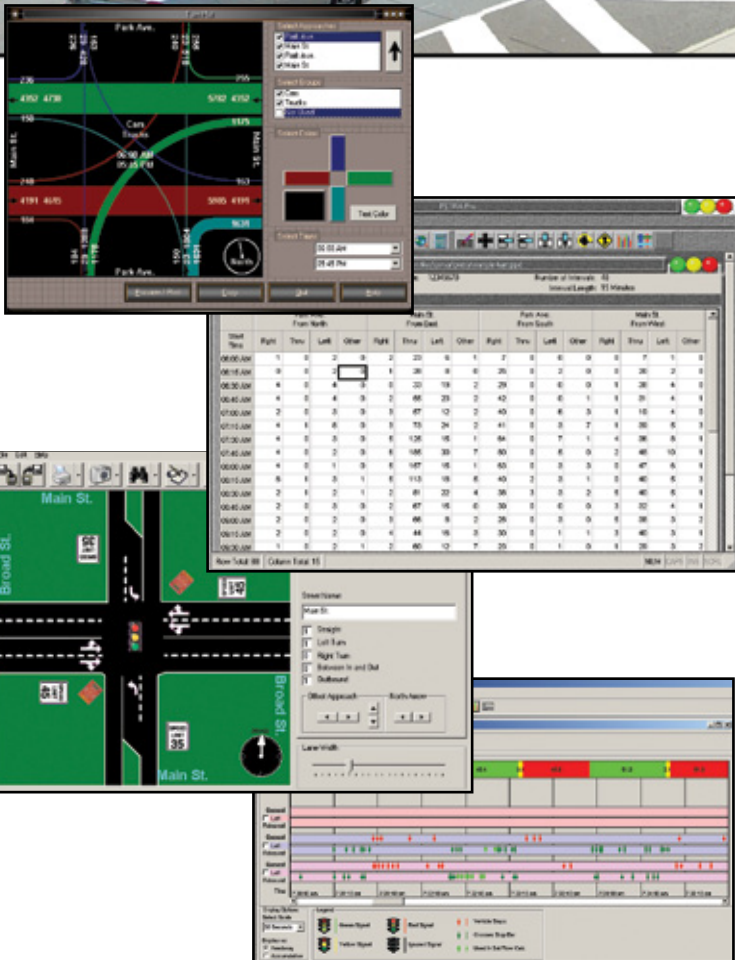


PETRAPro



Traffic Data Analysis Software

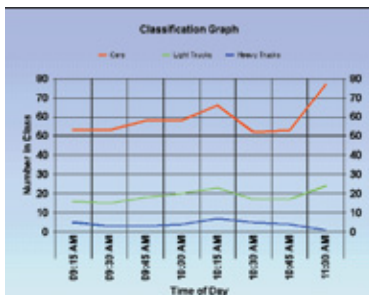
- Downloads Data from the TDC Ultra
- Produces Comprehensive Reports
- Data Analysis for:
 - Turning Movements
 - Roundabout Movements
 - Saturation Flow Rate
 - Stop Sign Delays
 - Vehicle Classifications
 - Multi-direction Gap
 - Speeds with Class
 - Signalized Delays

Additional Traffic Data Analysis

In addition to Turning Movement studies, PETRAPro allows you to process and analyze a number of other types of traffic data that can be collected with the TDC Ultra. With all of these studies, the program's user-friendliness and powerful capabilities makes downloading and reporting an easy task.

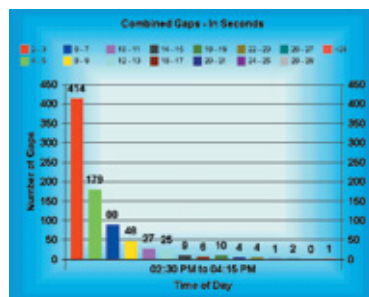
• Vehicle Classification

Classification reports, which determine the types of vehicles using a road, can be generated using either the FHWA scheme F or with a classification scheme created by the user. Multiple sets of schemes can be saved in the program for quick access.



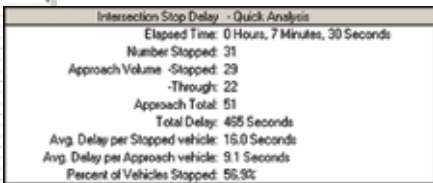
• Multi-Direction Gap

Gap studies are used to determine the amount of breaks in traffic on a particular road. Study can be recorded for multiple lanes and can also include combined gap information for times when there were gaps in both lanes of traffic simultaneously.



• Signalized Intersection Delay

End Time	Stopped at End of Stoppage	Stopped	Through	Total Volume
05:00:00 PM	0	0	0	0
05:01:00 PM	0	0	0	0
05:02:00 PM	0	0	0	0
05:03:00 PM	0	0	0	0
05:04:00 PM	0	0	0	0
05:05:00 PM	0	0	0	0
05:06:00 PM	0	0	0	0
05:07:00 PM	0	0	0	0
05:08:00 PM	0	0	0	0
05:09:00 PM	0	0	0	0
05:10:00 PM	0	0	0	0
05:11:00 PM	0	0	0	0
05:12:00 PM	0	0	0	0
05:13:00 PM	0	0	0	0
05:14:00 PM	0	0	0	0
05:15:00 PM	0	0	0	0
05:16:00 PM	0	0	0	0
05:17:00 PM	0	0	0	0
05:18:00 PM	0	0	0	0
05:19:00 PM	0	0	0	0
05:20:00 PM	0	0	0	0
05:21:00 PM	0	0	0	0
05:22:00 PM	0	0	0	0
05:23:00 PM	0	0	0	0
05:24:00 PM	0	0	0	0
05:25:00 PM	0	0	0	0
05:26:00 PM	0	0	0	0
05:27:00 PM	0	0	0	0
05:28:00 PM	0	0	0	0
05:29:00 PM	0	0	0	0
05:30:00 PM	0	0	0	0



Signalized Intersection Delay studies are based on standard methods used by traffic engineers and provide a statistical method for measuring delays. Reports provide total volume recorded during the study, broken down into vehicles that were delayed at the signal, and those that went through without delay.

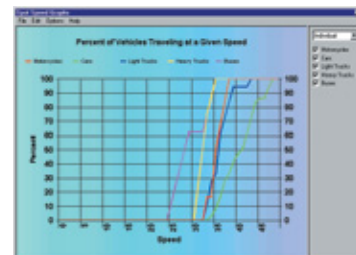
• Time-Stamp Data

Create your own traffic data study using the time-stamp download of PETRAPro. Using a TDC Ultra, you can record the time-stamp of every button you push. This data can then be downloaded into PETRAPro and exported into other applications, like Excel, to allow you to create your own data analysis.

Event Name	Time	Value
1	05:00:00	0.000
2	05:01:00	0.000
3	05:02:00	0.000
4	05:03:00	0.000
5	05:04:00	0.000
6	05:05:00	0.000
7	05:06:00	0.000
8	05:07:00	0.000
9	05:08:00	0.000
10	05:09:00	0.000
11	05:10:00	0.000
12	05:11:00	0.000
13	05:12:00	0.000
14	05:13:00	0.000
15	05:14:00	0.000
16	05:15:00	0.000
17	05:16:00	0.000
18	05:17:00	0.000
19	05:18:00	0.000
20	05:19:00	0.000
21	05:20:00	0.000
22	05:21:00	0.000
23	05:22:00	0.000
24	05:23:00	0.000
25	05:24:00	0.000
26	05:25:00	0.000
27	05:26:00	0.000
28	05:27:00	0.000
29	05:28:00	0.000
30	05:29:00	0.000
31	05:30:00	0.000

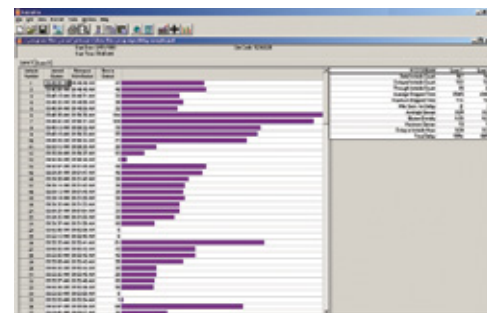
• Spot Speed with Classification

Spot Speed studies allow you to measure speeds at a specific location, often times at locations in which the use of an automatic traffic recorder (ATR) would not be possible. They can also be done for short term studies where the time to set up an ATR would not be justified. The speed data can be recorded in one group or broken down into various vehicle classifications.



• Stop Sign Delay

Stop Sign Delay studies are used to determine the length of delays occurring at a specific approach to a stop sign. The data can be collected and reported for multiple lanes and is shown for each individual vehicle with a graphical representation of the delay.



The overall data is analyzed for Average Stopped Time, Maximum Stopped Time, Average Queue, and Queue Density, among other statistics. This type of study can also be done for an approach to a signalized intersection.

• Saturation Flow Rate



PETRAPro allows you to quickly and easily produce reports for saturation flow rates at intersections. These rates are based on actual real-time data, and not on predefined values that may or may not be accurate. Depending on how the data has been collected in the field, PETRAPro can process and analyze the data for not only Saturation Flow rate, but also vehicle headways, lost times, arrival types, signal timings & approach volumes.

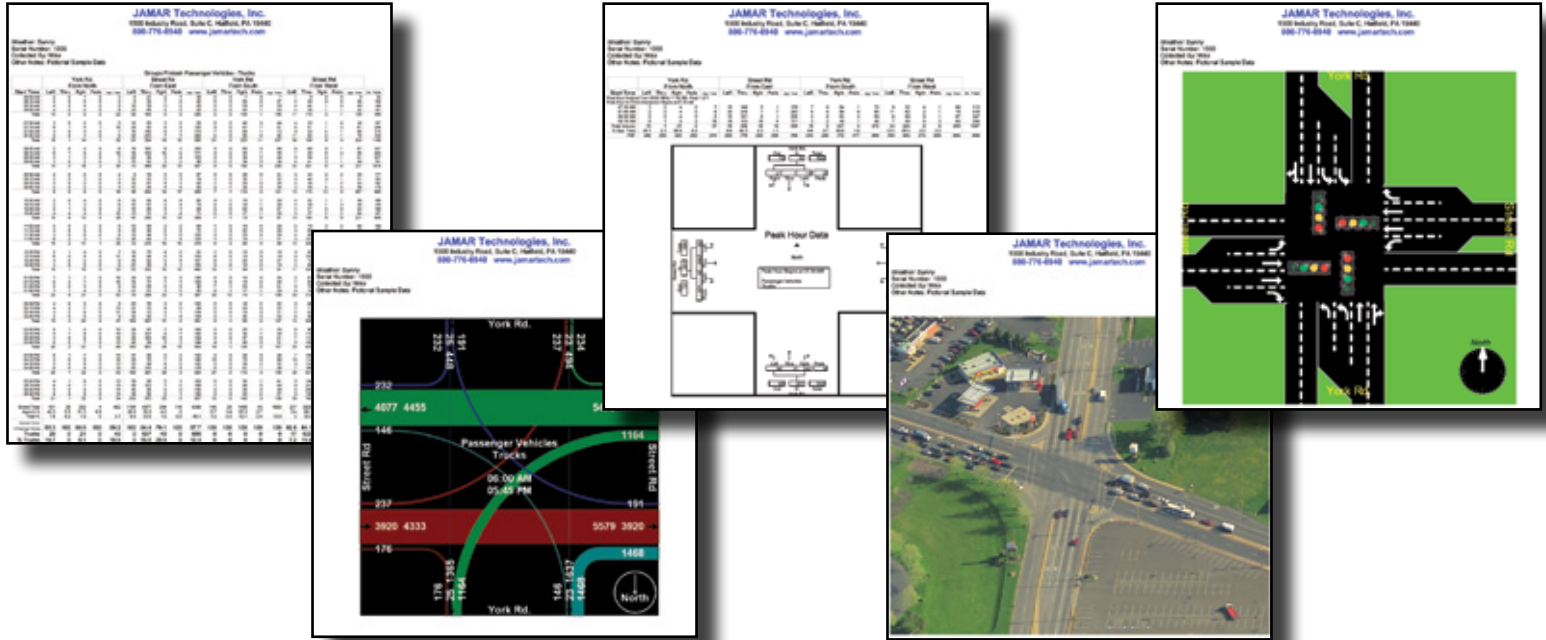
Specifications

- Downloads data from: TDC Ultra, TDC-12, TDC-8, DB-400, DB-100
- Windows XP, Vista or 7 Operating System
- USB Port for Download
- Data Analysis for: Turning Movements, Roundabout Movements, Vehicle Classification, Multi-direction Gap, Stop Sign Delay, Signalized Intersection Delay, Spot Speed, Saturation Flow Rate

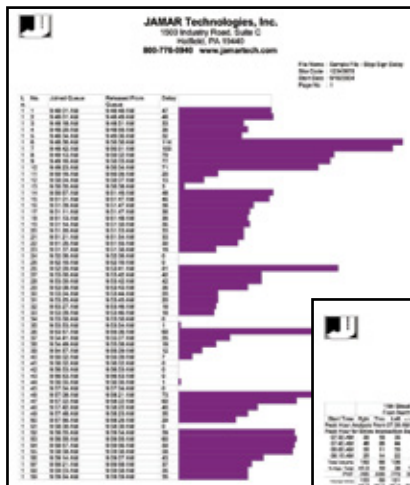
Extensive Report Options

PETRAPro provides you with a variety of ways to report your data in a professional and concise manner. Reports can be produced in color and sent directly to a printer, or saved in an electronic format (PDF or Rich Text) for e-mailing or posting on the Internet.

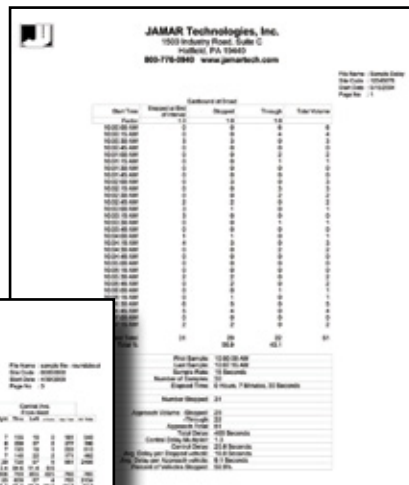
Turning Movements



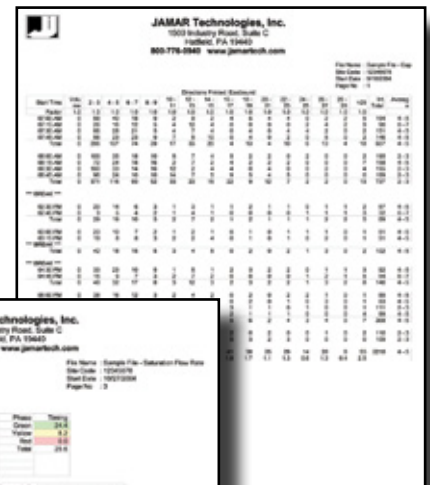
Stop Sign Delay



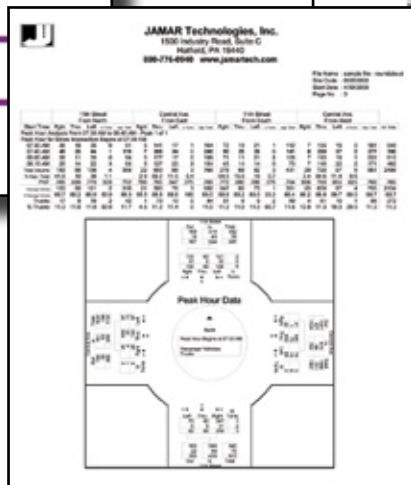
Signalized Intersection Delay



Multi-direction Gap



Roundabout Movements



Saturation Flow Rate

