



***Solving traffic timing problems faster than a speeding bullet!***

## ***Tools for Every Traffic Engineer***

- *Quality-Assured Traffic Signal Coordination*
- *Drafting Arterial Timings Diagrams*
- *Travel Time & Delay Studies (with GPS receiver)*

- Interactive traffic signal coordination
- Signalized networks
- Multiple signal timing plans
- Green bands from x-street left- & right-turn movements
- Right- or Left-hand drive rule
- Leading, lagging, & lead-lag protected turn phases
- Double green arrows
- Permitted/protected phases
- Harmonic cycling (2x, 1/2x, 2/3x, 3/2x, 1/3x, 3x, 1/4x, etc.)
- Time-Space, Platoon-Progression, or Time-Location diagrams
- Linkable offsets, timings, & bands
- Nine offset reference points
- Fixed or variable splits
- Varying speeds along artery
- Acceleration curve on bands from x-street
- Stop, start, continue, taper, or clip green bands
- Optimize cycle length, offsets, & phase sequences
- Fine-tune offsets
- Curved links in the Network View
- Timing plan-specific annotations on diagrams or Network View
- Track current position & speed with GPS receiver
- Trip Log trajectories on diagram
- Speed-Distance plots from Trip Logs
- Create Trip Log movies
- Improved Travel Time and Delay Reports with user-defined formulas
- Fuel consumption & emissions using second-by-second data
- Compatible with Google Earth and MS Bing Maps
- Easy collection of geographic points
- Import/Export GPX, KML or GIS shapefiles
- Remote control or Voice command control for GPS data collection
- Filter spurious readings from Trip Logs
- Integrates with TEAPAC
- Synchro compatible UTDF files, ver. 2006 or 2.1
- Shows splits or volumes directly on diagram
- Zoom on selected segments
- Agency logos in headers or footers of diagrams and movies
- Timing Reports as .pdf or .html files
- English or metric units
- Many styling options on diagrams
- New styling options for Trip Log Plots

- New!***
- Supports High-Fidelity, Modal Emissions Models! (e.g., CMEM for CO, HC, NO<sub>x</sub>, CO<sub>2</sub>, etc.)
  - Color-coded Network View shows Actual, Average Link Speed



# Order Form



**Quality-Assured  
Traffic Signal Coordination**

Quantity	Product	Description	Price	Total
	Tru-Traffic 9.0 (First License)	Software Tools for Every Traffic Engineer, One License	\$995	
	Tru-Traffic 9.0 (License #2 - #5)	Additional License #2, #3, #4, or #5 to Tru-Traffic 9.0. This price is for each additional license up to the fifth license.	\$550	
	Tru-Traffic 9.0 (License #6 - )	Additional License #6 or above to Tru-Traffic 9.0. This price is for each additional license after the fifth license.	\$350	
	Tru-Traffic 9.0 (Upgrade)	Upgrade to Tru-Traffic 9.0 from previous version. This price is for each increment in major version number (e.g., upgrade v7 to v9: 2 × \$195 = \$390)	\$195	
	Tru-Traffic 9.0 (Evaluation)	Limited-time Evaluation License to Tru-Traffic 9.0	N/C	
	USGlobalSat BU-353 USB GPS Receiver	GPS Receiver with waterproof casing & magnetic mount, model USGlobalSat BU-353-W	\$45	
	USGlobalSat DG-100 GPS+Data Logger	USB GPS Receiver+Data Logger, model USGlobalSat DG-100	\$60	
	USGlobalSat BT-335 GPS / Data Logger	Bluetooth GPS Receiver+Data Logger, model USGlobalSat BT-335	\$75	

**Delivery Option (check one)**

- Postal. Send me the CD & license and email the license. I'll pay any applicable sales tax in my state.  
 Electronic Only. Don't send the CD, just email the license & I'll download. I may owe no tax this way.

California customers who either opt for Postal delivery or order a GPS device add Sales Tax.	8.25%	
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**Shipping.** Separate shipping fees apply only to orders that include one or more GPS devices. \$10 for the first GPS device, plus \$4 for each additional GPS device.

Total	
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**Ship To:**

Name	
Company	
Address	
City	
State	Postal Code
Country	
Phone	
Fax	
E-mail Address	
Purchase Order Number	

**Bill To: (if different)**

Name	
Company	
Address	
City	
State	Postal Code
Country	
Phone	
Fax	
E-mail Address	
Credit Card number (if applicable)	<input type="radio"/> Visa <input type="radio"/> MC <input type="radio"/> Discover
	Exp. Date

**To place an order payable by check or credit card, please send, fax, or email either**

- a Purchase Order
- or –
- the completed Order Form

**To order online, please**

- visit the web site  
[www.tru-traffic.com](http://www.tru-traffic.com),
- click on *Ordering Information*,
- then *Tru-Traffic Software (online order form)*.

**For information, contact**

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# Comparison of some of the features of the various GPS devices available here.

More details available at <http://www.USGlobalSat.com>.

GPS Device	USGlobalSat BU-353-W USB GPS Receiver	USGlobalSat DG-100 GPS+Data Logger	USGlobalSat BT-335 GPS / Data Logger
<b>Mounting options</b>	Includes waterproof casing, roof magnetic mount, suction cup, & 5' USB cable for clear view of the sky	Includes a belt clip, but you'll probably want to get a suction cup or just set it on your dashboard	Sits on your dashboard
<b>Operates with Tru-Traffic as basic GPS receiver</b>	Yes	Yes, but you'll need to get a USB extension cable and read the manual to learn how to set this up.	Yes
<b>Logs GPS trips for later download</b>	No	Yes <sup>1, 2, 3</sup>	Yes <sup>1, 2, 3</sup>
<b>Logging capacity</b>	(none)	16 Mbit <sup>4</sup>	16 Mbit <sup>4</sup>
<b>Power options</b>	USB cable, plugged into laptop	AA NiMh batteries (included) rechargeable via USB cable	Internal Li-ion batteries rechargeable with 12VDC car or 110VAC wall chargers (both included)
<b>Battery life</b>	N/A	20 hours	25 hours
<b>Connection type</b>	USB	USB	Bluetooth

<sup>1</sup>I recommend that you use the DataLogger PC Utility software for this GPS data logger to configure it to record

- both the speed & heading along with the time & location, to avoid the problem described here, and
- a track point at the regular time interval of one second.

<sup>2</sup>For downloading previously recorded trip logs from this GPS data logger, I recommend that you

- use GPSBabel (<http://www.gpsbabel.org/>) or other open source software and not the DataLogger PC Utility software for this GPS data logger, which as of this writing (6/24/11) seems to have a number of problems, and
- download the trip logs to GPX files for importing into Tru-Traffic, since GPX files include the instantaneous speed.

<sup>3</sup>Following the above recommendations, recording both the speed & heading and downloading to GPX, puts the most complete and accurate information into Tru-Traffic, but the data importing alone (discounting the download) adds noticeably to the overall data collection time. On my 2.5 GHz Core Duo computer running 32 bit Vista, importing adds about 5 - 8%, so if I record a 4 hour run, then I can expect the importing to take an additional 15 - 20 minutes.

<sup>4</sup>Depending on how this GPS data logger is configured, this should store at least 5.5 hours of trip data.