

Innovative
FLEET MANAGEMENT TOOLS



Telematics for the Working Fleet

- Track driving every second
- Compare drivers and vehicles
- Retrieve vehicle info wirelessly

DAVIS ®
ISO 9001 CERTIFIED QUALITY MANAGEMENT SYSTEM

DAVIS INSTRUMENTS 2009 CATALOG

What's Inside?

CARCHIP FLEET PRO

Our plug-and-go OBDII data logger.

Page 4

DRIVERIGHT 600E

On-board console gives instant feedback to drivers.

Page 5

FLEET MANAGEMENT SOFTWARE

Lets you track and compare drivers and vehicles.

Page 6

GPS CAPABLE

See how and where your vehicles are being driven.

Page 10

WIRELESS DOWNLOAD SYSTEM

Automatically downloads data to your office.

Page 12

FEATURE COMPARISONS

For CarChip Fleet Pro and DriveRight 600E.

Page 15

How to Reach Us

As always, please contact one of our customer service representatives if you have any questions. We're always glad to help.

(510) 732-9229

Main telephone line

(510) 732-7814

For answers to technical questions or help with trouble-shooting

(510) 670-0589

Fax to Customer Service or Tech Support

www.davisnet.com

Visit our web site

sales@davisnet.com

E-mail to Customer Service

support@davisnet.com

E-mail to Technical Support

info@davisnet.com

General e-mail



Actual size

Why choose CarChip or DriveRight?

We know that managing a fleet is a complex job. You need to improve safety, keep costs down, and worry about driver acceptance—all at the same time. We can help. Field-proven in fleets around the world, our fleet management systems give you the tools—and the information—you need.

Actively oversee driver safety.

- Set safety limits for speed, acceleration, and deceleration.
- Improve driver performance with both short- and long-term feedback.
- Reduce accidents, encourage seatbelt and headlight use.

Reduce wear and tear on the vehicle.

- Discourage jackrabbit starts, speeding, and hard braking.
- Log engine performance and troubleshoot engine repairs.
- Track unauthorized out-of-area or night or weekend driving.

Keep costs down.

- Low initial capital outlay, no ongoing fees.
- Add to your system as your fleet grows.
- Our tech support staff has first-hand product knowledge, so you get the support you need.

Three simple steps

1

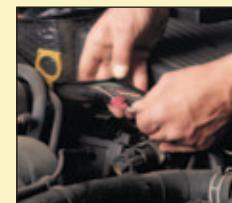
Select one or more installation methods

DriveRight 600E with interactive console



OBDII

Quickest installation. Plugs into the on-board diagnostics port found on cars, vans, and pickup trucks, model-years 1996 and later. [Page 5](#)

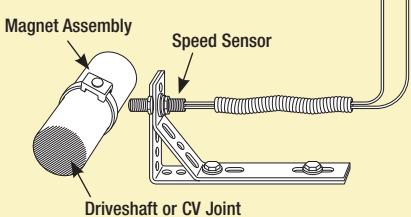


VSS

Taps into the vehicle's speed sensor signal. For passenger cars 1992 and later, and some earlier model-years with cruise control. [Page 5](#)

Driveshaft or CV Joint

For vehicles in which OBD or VSS installation is not possible. Mounts next to driveshaft or CV joint. Choose general duty for passenger cars or light duty trucks, heavy duty for tractors, big rigs, or buses. [Page 5](#)



CarChip



CarChip Fleet Pro

Plugs quickly and unobtrusively into the on-board diagnostics port found on cars, vans, and pickup trucks, model-years 1996 and later. [Page 4](#)



to building your own fleet management system

2

Choose one or more download methods

DriveRight 600E

SmartCard

Issue a credit card-sized SmartCard to each driver, then use to both identify and authorize the driver and download his driving data. *Page 13*



Serial Port

In the office, download directly from console to PC via serial port. Serial-port cable is included with Fleet Management Software at no extra charge. *Page 9*



Modem

Download data from the console in a remote location to your central office via modem using our Remote Download Kit. *Page 12*



USB

For CarChip, download directly to PC via the USB cable included with Fleet Management Software. For DriveRight, add our optional USB-to-serial cable. *Page 9*



Wireless

Transmit wirelessly from parking lot to base station in a 600' (183 m) vicinity. *Page 12*



CarChip or DriveRight

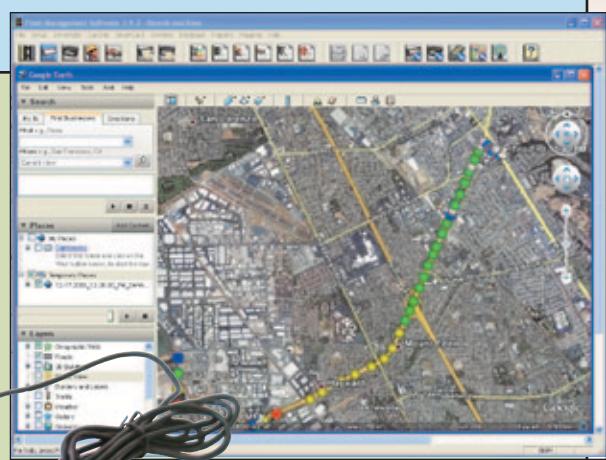
3

Get the info you need!

CarChip or DriveRight

GPS

Continuously collect data on the vehicle's location, then use with Google Earth™ or other third-party mapping software to view the driver's route, and each start and stop. *Page 10*



CarChip or DriveRight

Fleet Management Software

Use Fleet Management Software to quickly and easily analyze the data, view trends, and give feedback to both drivers and top management. *Page 6*





Plugs instantly and unobtrusively into the OBDII port in your car or truck.

Simple installation, loads of information.



With CarChip Fleet Pro, installation is as simple as "plug and go." Just plug the tiny data logger into the OBDII on-board diagnostics port and begin recording trip details immediately. Stores all the same driver-performance data as the DriveRight 600E on-board console. Plus, you'll get these CarChip-only features:

- Engine performance monitoring to keep your vehicles in top running condition.
- Diagnostic trouble codes, freeze-frame sensor readings, and the ability to clear the vehicle's check engine light.
- Emissions readiness reports to check the status of the vehicle's smog-control systems.

To monitor engine performance, use a CarChip Fleet Pro in each vehicle. To monitor driver performance, issue each driver his own CarChip with a unique ID number. Drivers can quickly and easily take their CarChip with them from one vehicle to the next. Stores up to 1200 hours of driving data depending on the logging interval and number of parameters selected. Download at any time and clear the memory, or simply let the newest data overwrite the oldest. Requires Fleet Management Software, sold separately.

8246 CarChip Fleet Pro \$169

Engine Performance Monitoring

Monitor any 4 out of 23 possible parameters including:

- RPM
- Throttle position
- Engine load
- Fuel pressure
- Fuel system status
- Short-term fuel trim (2 ea)
- Long-term fuel trim (2 ea)
- Battery voltage
- Timing advance
- Coolant temperature
- Air flow rate
- Intake air temperature
- Intake manifold pressure
- O2 sensor output voltage (8 ea)

Mix and Match DriveRight® 600E & CarChip® Fleet Pro

Fleet Management Software uses data from both the DriveRight 600E on-board console and the CarChip Fleet Pro data logger—so you can mix and match to create the driver safety or vehicle monitoring system you need.

- Choose **CarChip Fleet Pro** for quickest installation and engine performance monitoring.
- Choose **DriveRight 600E** for enhanced security and for use in vehicles without OBDII ports.
- **Mix and match to suit your needs.** Put CarChip Fleet Pro in some vehicles, DriveRight 600E in others.

		DriveRight 600E			
Installation Method	CarChip Fleet Pro 8246	OBDII 81260BD	VSS 8126VSS	General Duty 8126GD	Heavy Duty 8126HD
Quickest installation.	Plugs into the on-board diagnostics port found on cars, vans, and pickup trucks, 1996 and later.*	•	•		
Uses the vehicle's speed sensor signal.	For vehicles 1992 and later, and some earlier model-years with cruise control.		•		
Mounts next to driveshaft or CV joint.	For tractors, big rigs, and buses, and for older-model cars, vans, and pickup trucks.			•	•
On-Board Feedback	Interactive console gives instant feedback to drivers during and after each trip.		•	•	•
	On-board alarms alert the driver to excessive speed, acceleration, or deceleration.	•	•	•	•
Download to Software	Download directly to PC via USB or serial port.	•	•	•	•
	Transmit wirelessly from parking lot to office with optional wireless download system.	•	•	•	•
	Add other download options: SmartCard or via modem using Remote Download Kit.		•	•	•
Other Features	Monitor engine performance, view diagnostic trouble codes, and reset check engine light.	•			
	Monitor seatbelt and headlight usage with optional digital inputs.		•	•	•
	Enhanced security options include driver ID and optional Starter Interrupter Kit.		•	•	•

DriveRight® 600E

Interactive on-board console gives instant feedback to drivers.

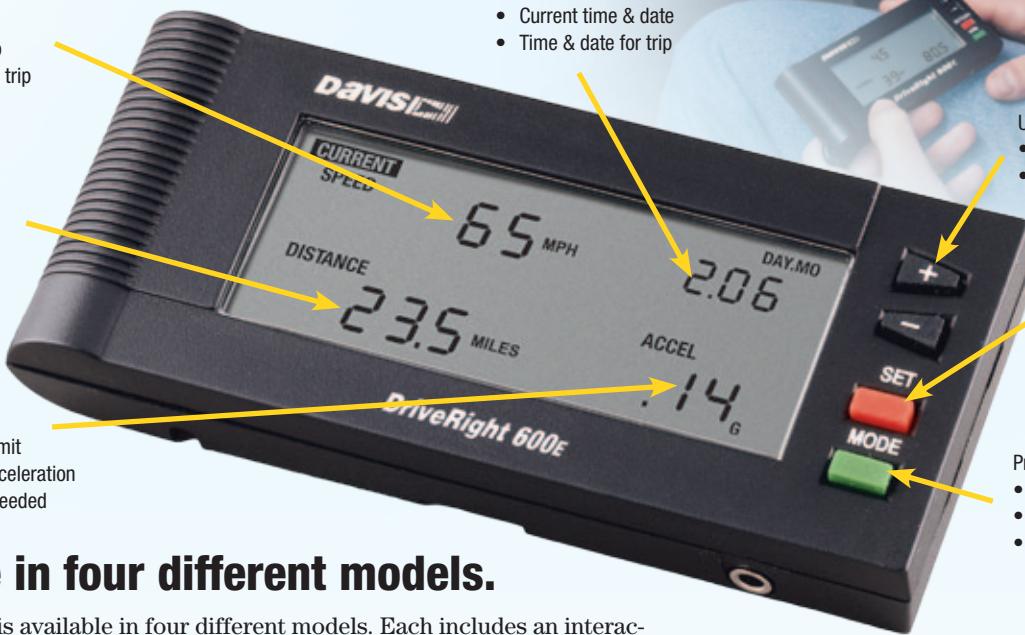
Like an on-board coach, DriveRight 600E gives instant feedback to drivers, improving their performance with every mile. Set the audible alarms, and the driver will know instantly whenever he has exceeded company safety limits for speed, acceleration, and hard braking. After the trip, query the console for details on time, speed, distance, and more. Download to Fleet Management Software to compare driver performance and track improvement over time. Easily mounts on dashboard or sun visor.

- Current speed
- Starting time for trip
- Maximum speed for trip

- Distance traveled
- Ending time for trip
- Number of times deceleration safety limit was exceeded

- Current acceleration or deceleration rate
- Amount of time over speed safety limit
- Number of times acceleration safety limit was exceeded

- Current time & date
- Time & date for trip



- Use PLUS and MINUS buttons to:
- Enter driver ID at beginning of trip
 - Specify trip type: business, personal, commute, or other

- Press SET to change format for:
- Speed (mph or km/h)
 - Time (12- or 24-hour)
 - Date (month/day or day/month)

- Press MODE to cycle through:
- Current readings
 - Details for each trip
 - Driver safety limits

Available in four different models.

DriveRight 600E is available in four different models. Each includes an interactive on-board console and vehicle installation hardware. Hardware varies to meet the needs of specific vehicle types and model-years.

8126OBD DriveRight 600E with OBDII Installation Kit \$395

Includes OBDII connector with 6' (1.8 m) cable. For cars, vans, and pickup trucks, model-years 1996 and later. If outside the USA and Canada, see our note for international customers on page 15.

8126VSS DriveRight 600E with VSS Installation Kit \$375

Includes wires and splice connectors to tap into the vehicle's speed sensor. For cars, vans, and pickup trucks, 1992 and later, and some earlier model-years with cruise control.

8126GD DriveRight 600E with General Duty Installation Kit \$375

Includes reed switch sensor, magnet, and nylon mounting strap. For older-model cars, vans, and pickup trucks, and for other vehicles in which OBDII or VSS installation is not possible.

8126HD DriveRight 600E with Heavy Duty Installation Kit \$395

Includes reed switch sensor, magnet, heavy-duty stainless steel mounting strap, and extra-long cables. For tractors, big rigs or other large trucks, or buses.

Installation Options

FOR DRIVERRIGHT 600E

Extra Installation Kits

To use a single console in multiple vehicles, save money by purchasing an extra installation kit for each vehicle instead of a complete system.

8160OBD OBDII Kit \$120

8160VSS VSS Kit \$100

8160GD General Duty Kit \$100

8160HD Heavy Duty Kit \$120

Extra Display Consoles

Give each driver his own on-board display console, and then use the 4-digit "driver ID code" to track project or address codes instead of driver IDs. Compatible with all our DriveRight 600E models.

8179 Extra Console \$295

Tension Tools

For installing the DriveRight 600E heavy-duty model. Tightens the stainless steel strap onto the driveshaft or CV joint. Choose the economical standard screwdriver-style tool for single installations. Choose the deluxe ratcheting tool for easiest, most efficient installation in multiple vehicles.

8196 Standard Tension Tool \$20

8195 Deluxe Tension Tool \$250

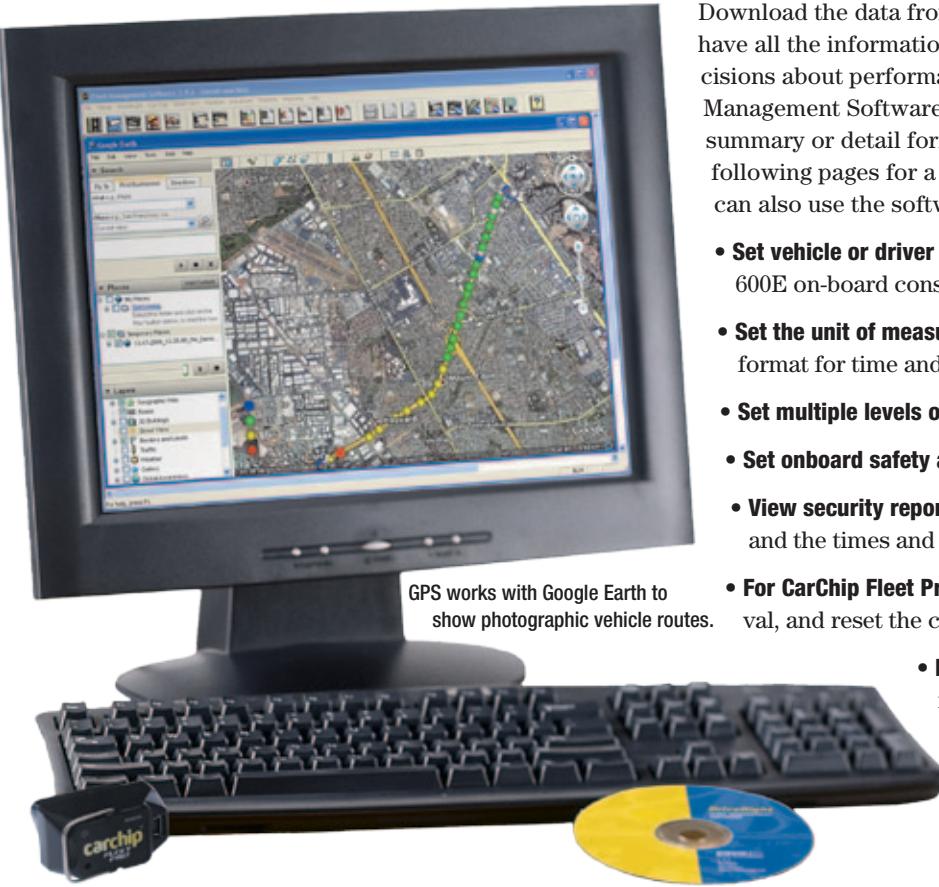
Standard



Fleet Management Software

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

The info you need to manage your fleet — where you need it, when you need it.



Download the data from CarChip Fleet Pro and DriveRight 600E, and you'll have all the information you need to give feedback to your drivers, make decisions about performance, and report back to top management. Our Fleet Management Software lets you track and compare drivers and vehicles in summary or detail form, for your entire fleet or just selected groups. See the following pages for a detailed look at just some of the available reports. You can also use the software to:

- **Set vehicle or driver IDs** for CarChip Fleet Pro data loggers and DriveRight 600E on-board consoles.
- **Set the unit of measure** for speed and distance (miles or kilometers) and the format for time and date (U.S. or international).
- **Set multiple levels of corporate structure** for reporting purposes.
- **Set onboard safety alarms** for speed, acceleration, and hard braking.
- **View security reports** showing unsuccessful login or security code attempts and the times and dates the units were disconnected.
- **For CarChip Fleet Pro**, select engine monitoring parameters and logging interval, and reset the check engine light.
- **For DriveRight 600E**, require SmartCard use or set alarms to remind drivers to login manually before each trip.
- **With optional GPS system**, see the routes your drivers took, the speeds they drove, and the location of any accidents or near-accidents.

Multiple download options offer ultimate flexibility.

We know that different fleets have different needs. Whether you manage a fleet of a dozen vehicles in a single location or hundreds of vehicles across the globe, our data-download options give you the flexibility you need to download data quickly and easily. See the following pages for more details on each.

Download Option		CarChip Fleet Pro	DriveRight 600E
Serial Port	In the office, download directly from console to PC via serial port. Page 9		•
USB	For CarChip, download directly to PC via the USB cable. For DriveRight, add our optional USB-to-Serial cable. Page 9	•	•
Modem	Download the console from remote locations to your central office via modem using our Remote Download Kit. Page 12		•
SmartCard	Issue a credit-card sized SmartCard to each driver, then use to both authorize the driver and download driving data. Page 13		•
Wireless	Transmit wirelessly from parking lot to office up to 600' (183 m). Page 12	•	•

Driver Safety Score

Ranks driver safety performance using a single concise score. You choose the factors you want to include in the safety score and how much to weigh each.

For CarChip Fleet Pro and DriveRight 600E

- Choose detailed or summary report.
- Select starting and ending dates.
- Sort by current score, cumulative score, or driver name.

Excessive Speed Report

Location Name: Oilfield Top Speed Threshold: >= 75 MPH

Driver ID	Driver Name	Trip Starting Date	Trip Starting Time	Trip Top Speed (MPH)	Vehicle ID	License Plate	Time Over Speed	DriveRight Speed Limit (MPH)
5703	Bob Bouchet	10/08/2008	11:31 AM	78	6	1LMR499	00:00:11	73
5703	Bob Bouchet	11/12/2008	05:49 AM	75	6	1LMR499	00:00:02	73
5703	Bob Bouchet	12/04/2008	11:13 AM	77	6	1LMR499	00:00:07	73
5703	Bob Bouchet	12/08/2008	11:31 AM	78	6	1LMR499	00:00:11	73
5703	Bob Bouchet	02/12/2008	05:49 AM	75	6	1LMR499	00:00:02	73
5703	Bob Bouchet	03/04/2008	11:13 AM	77	6	1LMR499	00:00:07	73
5703	Bob Bouchet	03/08/2008	11:31 AM	75	6	1LMR499	00:00:11	73
5703	Bob Bouchet	04/12/2008	05:49 AM	78	6	1LMR499	00:00:11	73
5703	Bob Bouchet	06/12/2008	05:49 AM	75	6	1LMR499	00:00:02	73
5703	Bob Bouchet	07/04/2008	11:13 AM	75	6	1LMR499	00:00:02	73
5703	Bob Bouchet	07/08/2008	11:31 AM	77	6	1LMR499	00:00:07	73
5703	Bob Bouchet	09/12/2008	05:49 AM	78	6	1LMR499	00:00:11	73
5703	Bob Bouchet	10/04/2008	11:13 AM	75	6	1LMR499	00:00:02	73
5703	Bob Bouchet	10/08/2008	11:31 AM	77	6	1LMR499	00:00:07	73
5703	Bob Bouchet	11/12/2008	05:49 AM	78	6	1LMR499	00:00:11	73
5703	Bob Bouchet	12/04/2008	11:13 AM	75	6	1LMR499	00:00:02	73
5703	Bob Bouchet	12/08/2008	11:31 AM	77	6	1LMR499	00:00:07	73

Compare the driver's top speed with your company's established speed safety limit.

View only those drivers who exceeded your selected criteria.

Determine the appropriate action by reviewing how much time was spent over the limit.

Compare current and cumulative safety scores to see how drivers are doing over time.

Weigh each factor appropriately by changing the safety score formula as needed.

Drivers	Current Score	Cumulative Score	Max. Download Days	Total Distance Driven (Miles)	Accel Counts per 100 Miles	Decel Counts per 100 Miles	Maximum Speed (MPH)	Vehicle Speed Limit (MPH)	% of Driving Time over Threshold	Driver Score Components		
										Accel	Decel	Download
Light Vehicle Drivers												
10 Roger Larson	96	98	11	3437.5	0	0.1	72	70	0	100	99	100
11 Alberto Velasquez	95	88	21	1653.9	0	0	72	70	0	100	100	100
12 Joe Judah	94	90	5	2017.4	0	4.1	70	70	0	100	75	100
13 Deborah Billings	93	96	56	1706.8	0.1	0.2	73	70	0	100	99	100
14 Jim Perkins	90	92	9	2269.1	0	0	74	70	0	100	100	100
15 Ronnie Jacobson	90	94	35	2050.3	0.1	0.2	74	70	0	100	99	70
16 Michael Jax	89	89	4	2050.7	0.1	0.3	78	70	0.2	99	96	100
17 Bernie Woodward	89	89	33	2281.3	0.1	0.2	79	70	0	100	95	70
18 Mike Iltis	88	88	55	768.2	0.1	0.2	79	70	0	100	100	70
19 Pet Villament	84	86	50	1937.7	1.9	0.5	78	70	0	89	97	70
20 Edward Michaels	84	81	50	1776.5	0.1	0.5	78	70	0.1	99	97	20
21 Joey Dubonnet	83	83	72	1707.9	0.1	0.4	60	70	0	100	95	100
22 Ed Buckhalter	81	76	56	2596.4	0.1	0.3	80	70	0	99	90	40
23 Ray Rogers	79	79	4	2050.7	0.1	0.3	78	70	0	95	96	70
24 Clay Cullen	78	78	33	2281.3	0.1	0.2	79	70	0	99	98	100
25 Jeff Buechler	78	78	55	768.2	0.1	0.2	79	70	0	100	99	40
26 Michael Vick	78	74	37	1660.6	0.2	0.3	79	70	0	99	98	70
27 Ashton Williams	78	69	55	768.2	0.1	0.2	79	70	0	99	99	20
28 Bob Kirby	77	79	36	1937.7	1.9	0.5	78	70	0	89	97	70
29 Elmo Dickerson	77	74	50	1776.5	0.1	0.5	78	70	0.1	99	97	20
30 Don Duttlinger	76	70	41	4587.8	0.1	0.4	60	70	0	100	98	70
31 Huie Humphries	65	68	56	2596.4	0.1	0.3	80	70	0	99	90	40
32 WTMH Colin Benge	64	64	7	1853.6	0	0.1	82	70	0	100	100	34
33 Ward Chad Far	63	63	54	4094.7	0	0.1	81	70	0	100	99	20

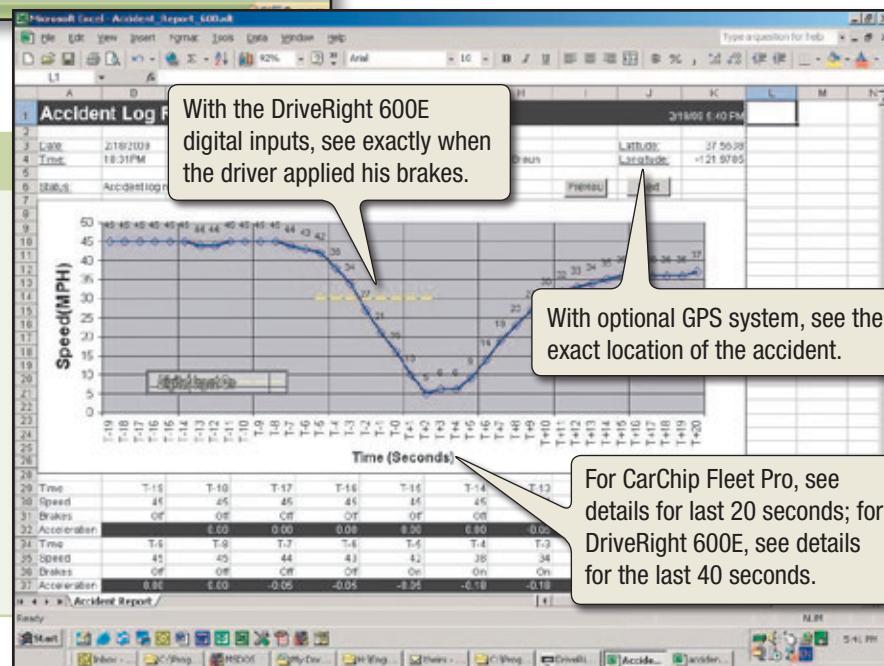
Actual screens may vary.

Exception Reports

Make it easy to pay attention to what matters most. No need to sort through reams of data for each driver—simply enter your selected criteria, and let the software do the work.

For CarChip Fleet Pro and DriveRight 600E

- Excessive speed and amount of time over speed.
- Number of hard braking events.
- Driving at night or outside of authorized hours.



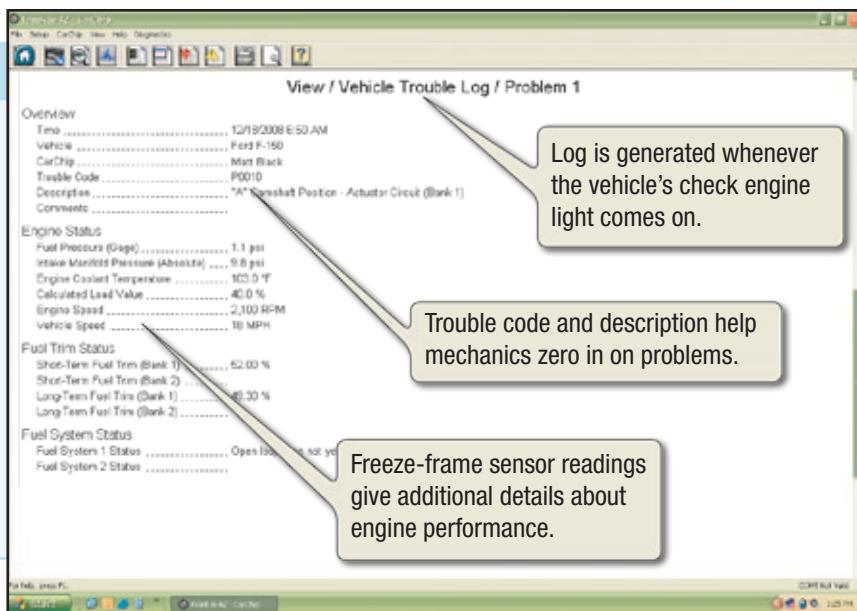
Accident Log

Whether the driver slammed on the brakes or hit an unmovable barrier, now you can get the detailed, moment-by-moment information needed to help reconstruct the accident.

For CarChip Fleet Pro and DriveRight 600E

- Select specific CarChip or DriveRight ID and date.
- Output to the included Excel template to view in graphic format.
- View using Google Earth or other third-party mapping software with optional GPS system.

With CarChip Fleet Pro, not just driver performance, but engine performance, too!



Diagnostic Trouble Codes

Helps take the guesswork out of diagnosing engine problems. Unlocks the information stored by a vehicle's engine control unit whenever there's an emissions problem or sensor failure.

For CarChip Fleet Pro

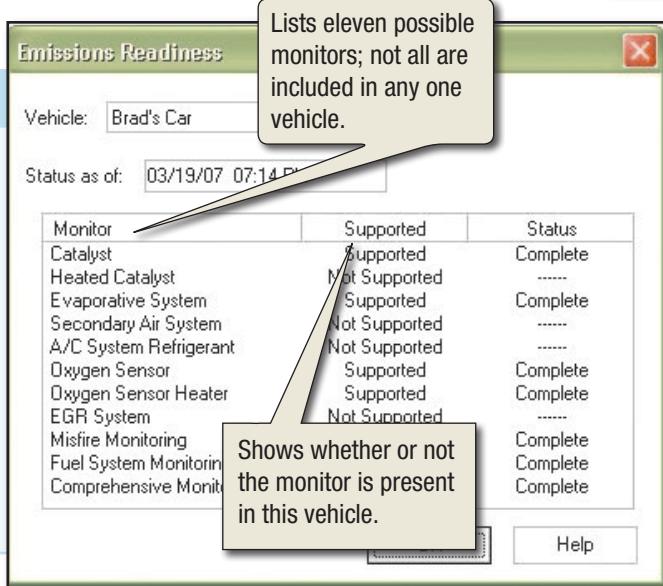
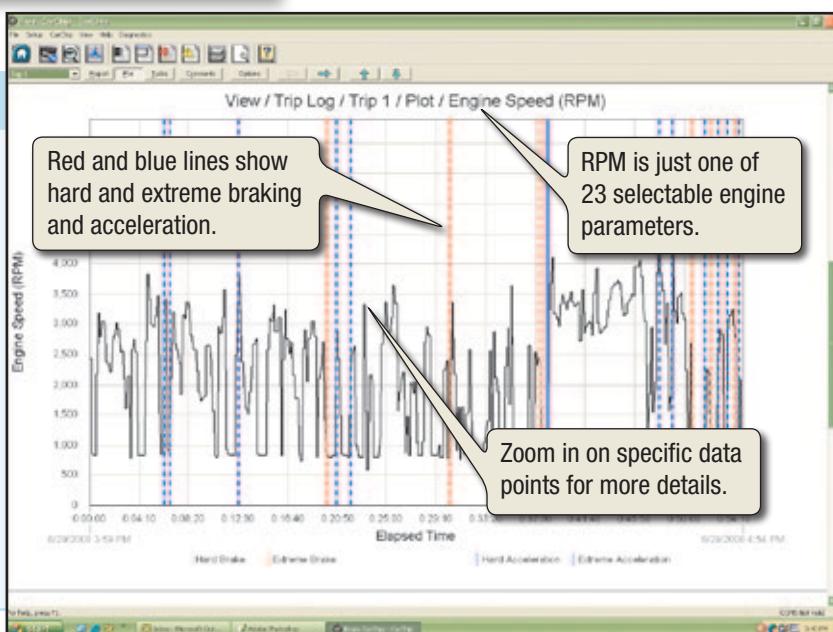
- Read the diagnostic trouble code and its description whenever the check engine (or malfunction indicator) light comes on.
- Get detailed "freeze-frame" sensor readings—a snapshot of what was happening at the time.
- Clear the check engine light yourself.

Engine Monitoring

Lets you see how your vehicles are performing under real-life driving conditions, not just when they're in the shop. Log any 4 out of 23 parameters at a time, at intervals from 5 to 60 seconds.

For CarChip Fleet Pro

- RPM
- Throttle position
- Engine load
- Fuel pressure
- Fuel system status
- Short-term fuel trim (2 ea)
- Long-term fuel trim (2 ea)
- Battery voltage
- Timing advance
- Coolant temperature
- Air flow rate
- Intake air temperature
- Intake manifold pressure
- Oxygen sensor output voltage (8 ea)



Emissions Readiness

Shows which emissions control systems have been tested by the vehicle's OBDII system. You'll know whether or not a vehicle will pass a smog test so you can take action to keep it in top running condition.

For CarChip Fleet Pro

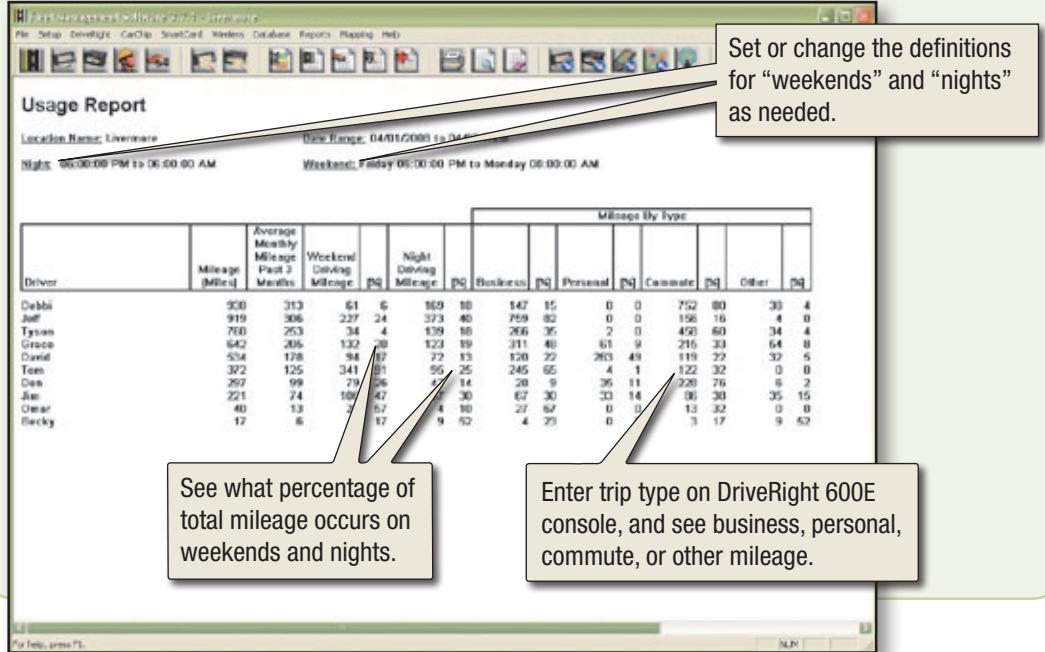
- Misfire, fuel trim, and comprehensive component monitors are found in all OBDII-compliant vehicles.
- Other system monitors vary depending on manufacturer, make, and model.
- Some systems are monitored continuously; others only when certain operating conditions are met.

Usage Report

Lets you see how much your vehicles are being driven, and when. Use to reimburse employees for business driving, to charge back personal use of company vehicles, or to monitor driving outside of authorized hours.

For CarChip Fleet Pro and DriveRight 600E

- Display distance in miles or kilometers.
- Provide reports for selected vehicles by date range.
- Sort by driver name, total mileage, or weekend or nighttime mileage.



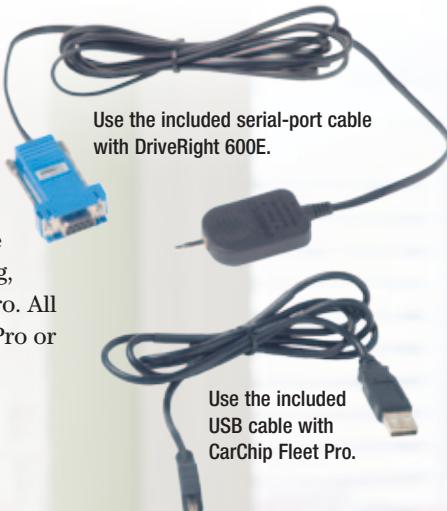
Fleet Management Software

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

Includes software on CD, serial-port cable for downloading from the DriveRight 600E on-board console, and a USB cable for downloading from CarChip Fleet Pro. (For easy, automatic downloading, add the wireless download system shown on page 12. Data from DriveRight 600E may also be downloaded using the optional USB-to-Serial Cable shown below, the Palm or Remote Download Kits shown on page 11, or the SmartCard System shown on page 13.) Reports for diagnostic trouble codes, engine monitoring, and emissions readiness require the use of CarChip Fleet Pro. All other reports are available whether you use CarChip Fleet Pro or any of our DriveRight 600E models.

8186 Fleet Management Software \$395

New! Now works
with Google Earth



Use the included serial-port cable with DriveRight 600E.

Use the included USB cable with CarChip Fleet Pro.

USB-to-Serial Cable

Optional cable. Use with DriveRight 600E to connect the included serial-port cable to the USB port on your PC.

8434 USB-to-Serial Cable \$20

Fleet Management Software System Requirements

- Windows 2000 and above.

Works with

- MS Excel. Use our included templates or create your own reports from tab-delimited text files.
- MS Outlook. Place the report in the body of the e-mail if HTML-enabled, or send as an Excel attachment.
- Google Earth or other third-party mapping software. Use with our GPS Module to see how and where your vehicles are being driven.
- FTP Client/Server. For secure transfer of large amounts of data from remote sites via the Internet.

Runs on Multiple Database Platforms

- For smaller fleets, includes Microsoft Access and MSDE databases; no additional software or licenses required.
- For larger fleets, use with MySQL, MS SQL Server, or Oracle.



GPS Module

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

See how and where your vehicles are being driven.

Add a GPS system to the DriveRight 600E or CarChip Fleet Pro in each vehicle, and you can see not only how your vehicles are being driven—but where. Download the data to our Fleet Management Software, then use Google Earth, Microsoft MapPoint or other third-party mapping programs to create detailed maps showing each driver's routes, the speeds driven, and the locations of any accidents or near-accidents.

GPS/WIRELESS

Interface Module

Connects the GPS Module to either your DriveRight 600E on-board console or the CarChip Fleet Pro data logger. You'll need one per vehicle. Easily mounts under dashboard using the included Velcro® strips or double-sided foam tape. Available in two models. A single Interface Module can be used to install both a GPS system and a wireless download system. See page 12 for details on our wireless download system.

8127 Interface Module for DriveRight 600E **\$65**

8251 Interface Module for CarChip Fleet Pro **\$65**



For CarChip Fleet Pro, includes a 2.5' (0.7 m) cable to connect to the CarChip.



For DriveRight 600E, includes a 2' (0.6 m) cable to connect to the console or SmartCard On-Board Reader, and a shorter, 14" (0.3 m) cable to connect to the optional digital input cable used to monitor seatbelt or headlight use.

GPS Module

Plugs quickly and easily into the DriveRight 600E on-board console or CarChip using the appropriate GPS/Wireless Interface Module. For maximum visibility to GPS satellites, position the module on the dashboard or windshield. Includes 6.5' (2 m) cable.

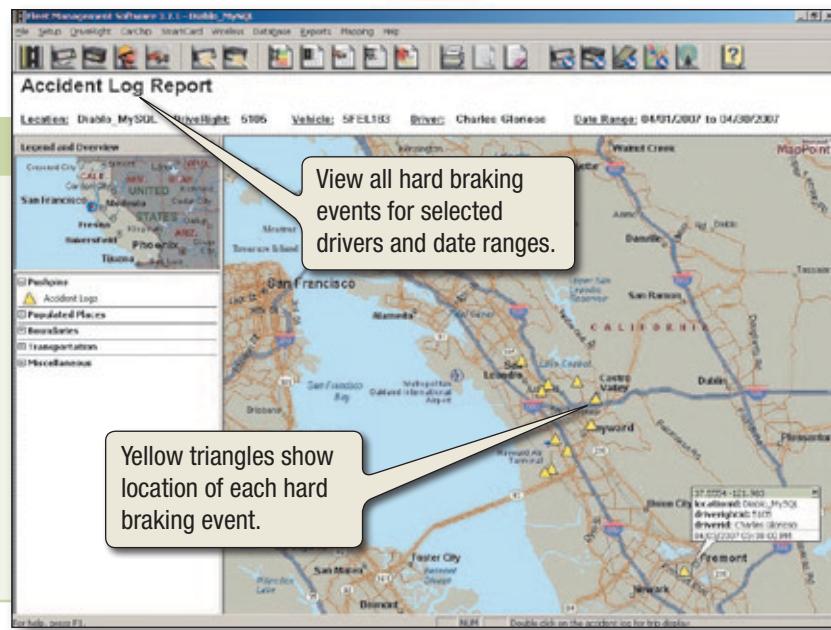
8128 GPS Module **\$100**

Accident Map

Too many hard decelerations means your driver is probably following too closely or driving too fast—and at an increased risk of having an accident.

For CarChip Fleet Pro and DriveRight 600E

- View the location of each hard braking event.
- Query each triangle for details on time and date.
- Zoom in to see exact location or to see details on the entire trip.



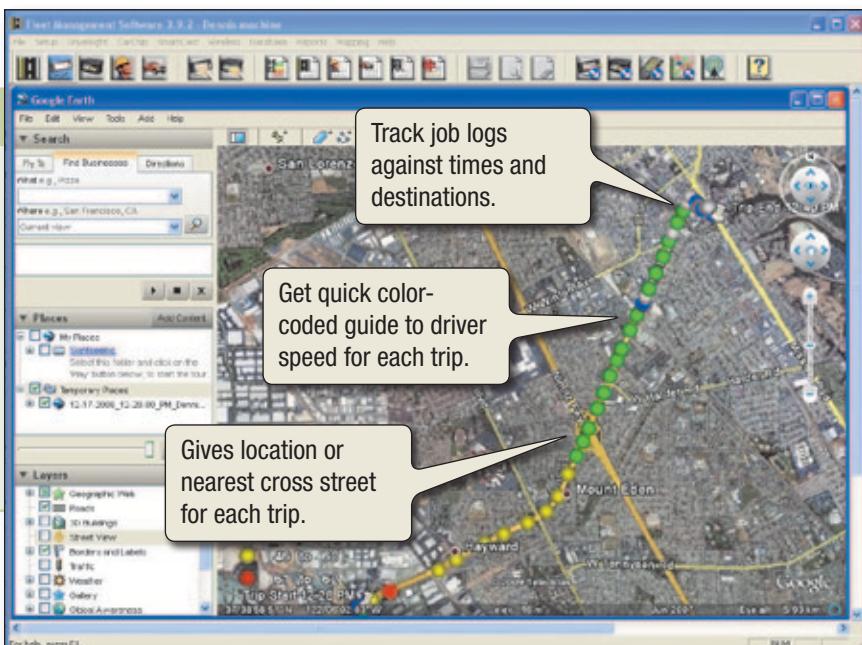
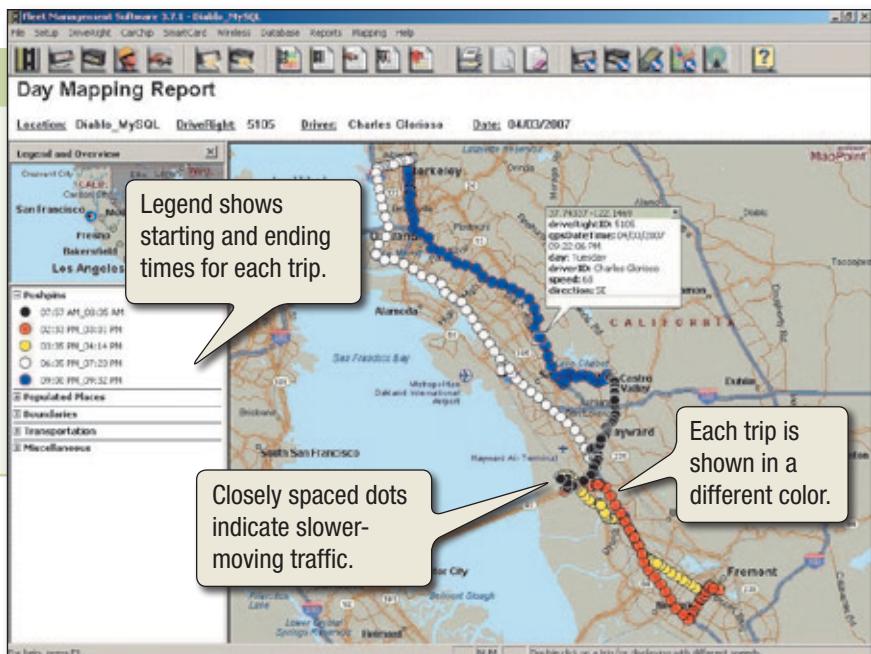
Screens created using Microsoft MapPoint. Actual screens will vary.

Day Map

See where your drivers went each day, each place they stopped, and the routes they took.

For CarChip Fleet Pro and DriveRight 600E

- Select for specific DriveRight or CarChip IDs, drivers, dates, and speeds.
- Query each dot for details on time, speed, and direction.
- Zoom in for a closer view of the route or to see the details of each trip.



More About GPS

- Location accuracy to 30' (9 m).
- Logging interval from one second to 15 minutes for DriveRight and 30 minutes for CarChip Fleet Pro.
- DriveRight 600E stores 43 hours of GPS data at one-minute intervals and 650 hours at 15-minute intervals.

- CarChip Fleet Pro stores last 520 hours of all data when GPS is logged at one-minute intervals (assuming speed logged every 5 seconds, other engine parameters every 60 seconds); last 700 hours at 15-minute intervals.

- Works with Google Earth and allows you to see photographic image of drivers' routes and stops.
- Outside North America and Europe, export data into other third-party GPS mapping software.

Wireless Download System

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

Makes data download automatic — and effortless!

Our easiest, most foolproof download system yet. There are no buttons to push, nothing for your drivers to remember to do. They simply pull into the parking lot, and the data from their DriveRight 600E or CarChip Fleet Pro is transmitted wirelessly—and automatically—to your office. Components are sold separately so you can customize the installation for your fleet. You'll need at least one of each plus our Fleet Management Software. Transmission distance is 600' (183 m) line of sight.



WIRELESS Base Station

Receives data from the Wireless On-Board Module and passes it on to the Fleet Management Software. You'll need at least one Base Station per parking lot or office. Larger parking lots may require more than one Base Station; maximum five per Fleet Management Software package. Includes 8' (2.4 m) cable to connect to the USB port on your PC. For longer distances, add one of these third-party solutions (not sold by Davis Instruments):

- A standard USB extension cable. Maximum total cable length is 16.5' (5 m).
- A USB extender. Maximum distance is 150' (45 m).
- A USB device server connected to your company intranet, for virtually unlimited distances.

8130 Wireless Base Station \$200

GPS/WIRELESS Interface Module

Connects the Wireless On-Board Module to either your DriveRight 600E on-board console or the CarChip Fleet Pro data logger. You'll need one per vehicle. Easily mounts under dashboard using the included Velcro® strips or double-sided foam tape. Available in two models.

A single Interface Module can be used to install both a wireless download system and a GPS system. See page 10 for details on our GPS system.

8127 Interface Module for DriveRight 600E \$65

8251 Interface Module for CarChip Fleet Pro \$65

Configuration Cable

For Wireless On-Board Module

Connects the Wireless On-Board Module to the USB port on your PC for configuration before initial use. Includes 8' (2.4 m) cable. You'll need one per office or fleet location.



For DriveRight 600E, includes a 2' (0.6 m) cable to connect to the console or SmartCard On-Board Reader, and a shorter, 14" (0.3 m) cable to connect to the optional digital input cable used to monitor seatbelt or headlight use.



For CarChip Fleet Pro, includes a 2.5' (0.7 m) cable to connect to the CarChip data logger.



8131 Configuration Cable for Wireless On-Board Module \$65



WIRELESS On-Board Module

Transmits the data collected by a DriveRight 600E or CarChip Fleet Pro to a Wireless Base Station. You'll need one per vehicle. Before installation, complete a few simple steps using our Configuration Cable and Fleet Management Software. Then, plug the module into the DriveRight 600E on-board console or CarChip using the appropriate GPS/Wireless Interface Module. Mounts in window of vehicle using the included Velcro® strips or double-sided foam tape.

8129 Wireless On-Board Module \$120



Multi-Purpose Shelter

For outdoor installations, mount the Base Station in our weatherproof Multi-Purpose Shelter. Measures 3 3/4" x 9 1/2" x 12 1/2" (9.5 x 24 x 32 cm).

7728 Multi-Purpose Shelter \$85

DRIVERIGHT 600E Remote Download Kit

If your fleet is spread out over a large geographic area, use our Remote Download Kit to allow drivers to send the data from their DriveRight 600E on-board consoles to your central office via modem. Coordinate with your drivers to download at scheduled times, or run the software continuously to allow transfer at any time. Includes download cable, modem-interface cable, and adapters. Requires third-party external modem (not available from Davis Instruments).

**8188 Remote
Download Kit \$95**



SmartCard System

FOR DRIVERRIGHT 600E

Easy download, enhanced security — all in one smart package.

Add our SmartCard system to your DriveRight 600E, and you'll have an easy and economical way to set driver safety limits, ensure that your vehicles are being driven by authorized individuals only, and download driving data.

- **Use the Desktop Reader** and our Fleet Management Software to program an administrative SmartCard with driver IDs, authorized vehicles, and your company's driver safety limits for speed, acceleration, and deceleration.
- **Use the On-Board Readers** to quickly and easily transfer the information from the administrative SmartCard to the DriveRight 600E on-board consoles, right in the parking lot. No need to bring the consoles into the office!
- **Issue a personalized SmartCard** to each driver. Before his first trip, all the driver needs to do is insert his SmartCard into the on-board reader. The system will check to make sure that he's authorized and let him know that he's good to go. At the end of the day, he just presses a button to transfer his driving data to the SmartCard, ready to be turned into the office—that's all there is to it!

SMARTCARD On-Board Reader

Plugs simply and easily into the DriveRight 600E on-board console. Mounts to dashboard using the included Velcro® strips or double-sided foam tape. Includes one SmartCard to help you get started. Additional SmartCards are sold separately in packs of ten.

8105 On-Board Reader \$120



SMARTCARD Desktop Reader

For programming SmartCards with driver ID and safety limits, and for downloading driving data. Connects quickly and easily to the USB port on your PC. Includes 4.5' (1.3 m) cable. You'll need one per download location.

8108 Desktop Reader \$80



Convenient, credit-card sized SmartCard can be worn on a lanyard, clipped to a belt, or carried in a wallet.

SmartCard

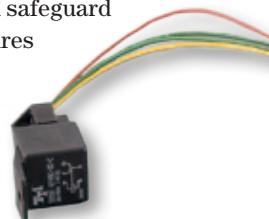
Available in packs of ten. You'll need at least one for each driver, plus an additional SmartCard for administrative purposes.

8112 SmartCard, Pack of 10 \$80

SMARTCARD Starter Interrupter Kit

With our optional Starter Interrupter Kit, the vehicle won't start until the driver has inserted his SmartCard and the system has verified his ID. A safeguard against driver forgetfulness—it ensures that all driving data is captured for every trip—and a way to prevent unauthorized drivers from using the vehicles.

8116 Starter Interrupter Kit \$20



Warranty

We warrant our products to be free of defects in material and workmanship for one year from the date of original purchase. While we make every effort to carefully manufacture our products to the highest standards of quality, occasionally parts may be found to be missing, defective, or damaged.

If you have a defective part, return the product to us, shipping charges prepaid. Include proof of purchase and a written explanation of the trouble. During the warranty period, we will, at our option, either repair or replace the product free of charge. This warranty does not cover damage due to improper installation or use, negligence, accident, or unauthorized service, or to incidental or consequential damages beyond the Davis products themselves. Implied warranties are limited in duration to the life of this limited warranty.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights. You may have other rights, which vary from state to state and country to country.

Licensed under one or more of the following U.S. patents: 6,629,029 & 6,832,141.

Davis Instruments Quality Management System is ISO 9001 certified.

Important Safety Notice

CarChip and DriveRight OBD have been carefully designed and tested to comply with the OBDII protocols used on vehicles sold in the USA, model-year 1996 or later. However, some vehicle models are not in full compliance with these protocols. In addition, the computer control systems on any given vehicle may be malfunctioning or out of spec, as may be the sensors used by these systems.

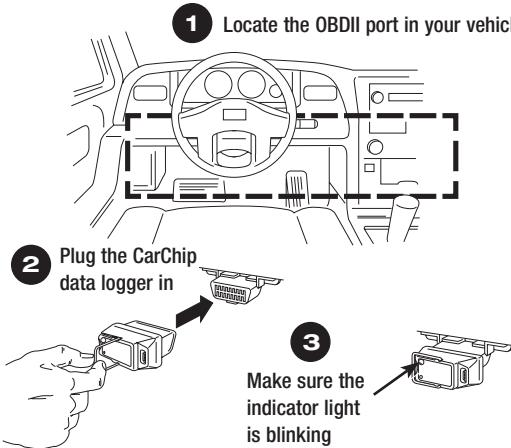
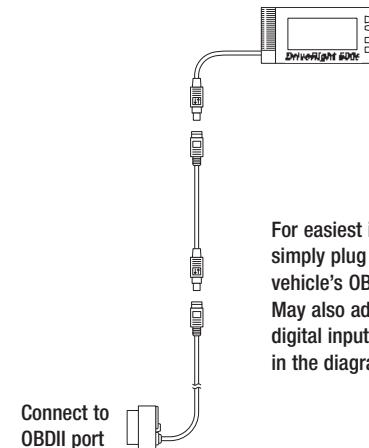
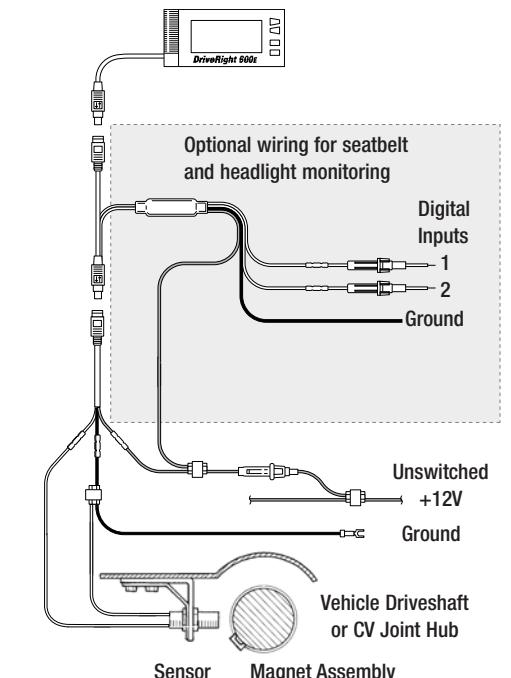
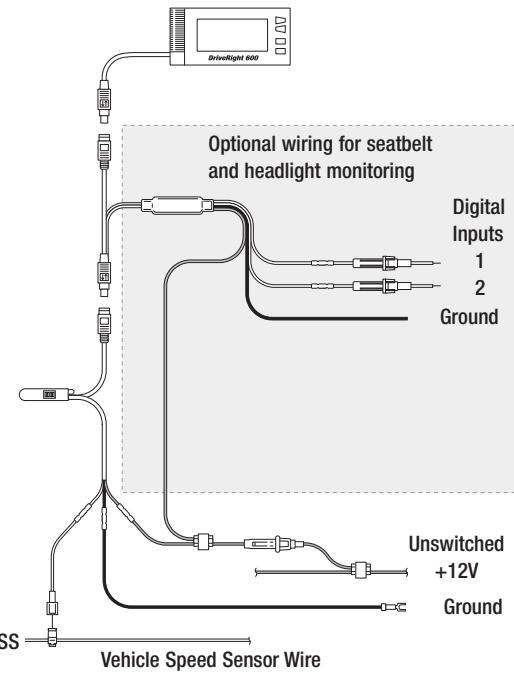
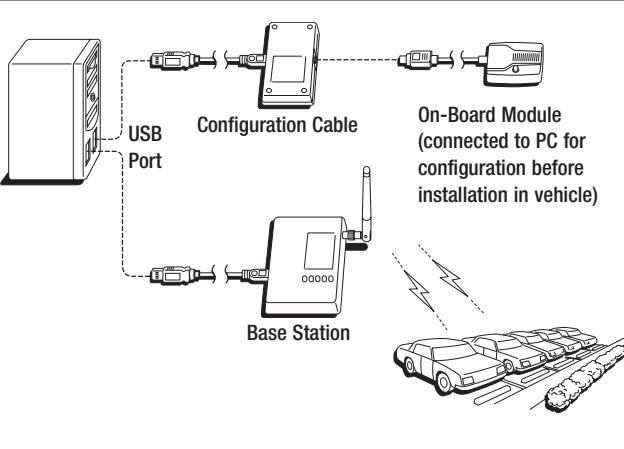
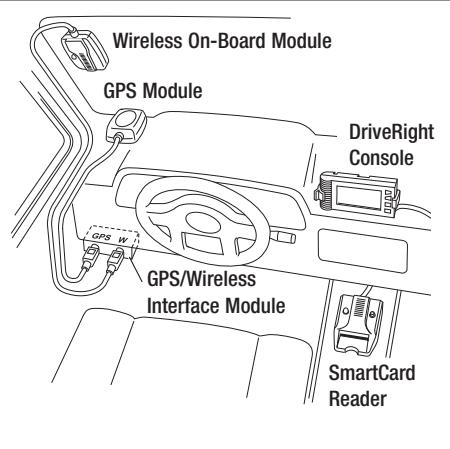
Before installing CarChip or DriveRight OBD, be sure to review the list of known exclusions on our website at www.carchip.com, where you'll also find the latest software and firmware downloads. For an in-depth discussion of OBDII anomalies, we recommend The Equipment and Tool Institute's website at www.etools.org.

While our testing and the experience of thousands of CarChip and DriveRight OBD users have shown the units to be safe and reliable, there is an inherent risk in adding any aftermarket product that may potentially affect the operation or drivability of your vehicle. Should you be concerned about the operation of your vehicle at any time while using any of our products, you should pull over, off the roadway, immediately or as soon as it is safe to do so. Remove the unit from the OBDII port, and consult a licensed mechanic or automobile service center.

Report any issues or concerns to our Technical Support Department at (510) 732-7814 or support@davinst.net. We are open Monday through Friday, 7:00 a.m. to 5:30 p.m. Pacific Time. We maintain an active database of the feedback we receive, and your comments can help us continuously improve the product.

Installation Diagrams

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

CarChip Fleet Pro	DriveRight 600E OBDII Installation
 <p>1 Locate the OBDII port in your vehicle 2 Plug the CarChip data logger in 3 Make sure the indicator light is blinking</p>	 <p>For easiest installation, simply plug into the vehicle's OBDII port. May also add optional digital inputs as shown in the diagrams below.</p> <p>Connect to OBDII port</p>
DriveRight 600E General Duty/Heavy Duty	DriveRight 600E VSS Installation
 <p>Optional wiring for seatbelt and headlight monitoring</p> <p>Digital Inputs 1 2 Ground</p> <p>Unswitched +12V Ground</p> <p>Vehicle Driveshaft or CV Joint Hub Sensor Magnet Assembly</p>	 <p>Optional wiring for seatbelt and headlight monitoring</p> <p>Digital Inputs 1 2 Ground</p> <p>Unswitched +12V Ground</p> <p>VSS Vehicle Speed Sensor Wire</p>
Wireless Download System	DriveRight 600E with Optional Components
 <p>USB Port</p> <p>Configuration Cable</p> <p>On-Board Module (connected to PC for configuration before installation in vehicle)</p> <p>Base Station</p>	 <p>Wireless On-Board Module</p> <p>GPS Module</p> <p>DriveRight Console</p> <p>GPS/Wireless Interface Module</p> <p>SmartCard Reader</p>

Feature Comparisons

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

FEATURES & OPTIONS	List Price	8246 & 8186		8126 & 8186	
		CarChip Fleet Pro with Fleet Management Software		DriveRight 600E with Fleet Management Software	
Installation	Data logger or on-board display console	\$169	\$375–395		
	Software (requires just one software package per fleet)	\$395	\$395		
	Installs using	OBDII connector	OBDII, VSS, driveshaft, or CV joint		
	For model years	1996 and later	Any		
	For cars, vans, and pickup trucks	●	●		
	For tractors, big rigs or other large trucks, and buses		●		
Download to Computer	Professional installation recommended (for GD, HD, or VSS)		●		
	Estimated installation time	15 seconds	10 min (OBD) to 1–2 hrs (GD, HD, VSS)		
	Using included USB cable	●			
	Using the included serial-port cable or optional USB cable		●		
	Wireless using optional system (additional \$450)	●	●		
	Via modem using optional Remote Download Kit (additional \$95)		●		
Backup Battery	Via SmartCard using optional system (additional \$280)		●		
	Battery type	Internal	3-volt lithium		
	Expected battery life if unit not in vehicle	10–15 years	2–4 months		
DRIVER PERFORMANCE	Expected battery life under normal usage	10–15 years	3–5 years		
	Acceleration & Deceleration	Hard accelerations	●	●	
	Hard decelerations	●	●		
	On-board alarms for hard accelerations and decelerations	●	●		
	Accident Log	After hard deceleration, speed every second for the last 20 seconds before a complete stop.	●		
		Speed every second for 20 seconds before and 20 seconds after hard deceleration.		●	
	Distance	Distance traveled per trip	●	●	
	GPS	Optional GPS position logging (additional \$165)	●	●	
	Trip Time	Starting and ending time for each trip	●	●	
		Total elapsed time for each trip	●	●	
		Engine idle time	●		
		Weekend/night driving time	●	●	
	Trip Type	Specify trip type using on-board console		●	
	Speed	Top speed	●	●	
		Average speed	●	●	
		Time over safety limit for speed	●	●	
		Time within user-specified speed ranges	●		
		On-board alarm for high speed	●	●	
ENGINE	Seatbelt Use	If selected as one of two digital inputs		●	
	Diagnostic trouble code with "freeze-frame" sensor readings		●		
	Ability to reset "check engine" light		●		
SECURITY	Logging of user-selectable engine parameters (see list on page 4)		●		
	Security code to change settings on on-board console			●	
	Driver ID code and vehicle login restrictions			●	
	Tamper indicator shows on on-board console			●	
	Tamper log may be viewed in software		●	●	

Hours of data varies depending on the logging interval. GPS logging requires optional components.	LOGGING INTERVAL			HOURS OF DATA
	Speed	GPS Location	Engine Parameters	
CARCHIP FLEET PRO	1 second	1 second	5 seconds	23 hours
	5 seconds	60 seconds	60 seconds	520 hours
	5 seconds	Not logged	Not logged	1200 hours
DRIVERIGHT 600E *	1 second	1 second	n/a	1 hour
	30 seconds	30 seconds	n/a	30 hours
	15 minutes	15 minutes	n/a	650 hours

* For DriveRight 600E, the hours of speed data stored does not vary whether or not GPS location data is stored. DriveRight 600E also stores data for up to 600 trips in a separate trip log. Each trip log includes starting and ending time and date, distance, top speed, average speed, and more. Engine parameter logging is not available with DriveRight 600E; to log these, use CarChip Fleet Pro. Details, specifications, and prices are subject to change at any time without notice.

Here's what people are saying about CarChip and DriveRight:

When my drivers saw how they were breaking the law, it woke some of them up. CarChip has helped us to remind them that sometimes you forget how fast you are really driving.

Roadside Assistance, Arizona

In the first year of using DriveRight, our company achieved its goal. Over the two-year period, corporate officials reported zero accidents.

Fleet Operations Manager, Algeria

It's not an exaggeration to say that for this project, CarChip provided a more reliable and cost-effective means to obtain vehicle operating data than any other approaches that we know.

Air Pollution Researcher, California

Recently had a customer ring me about an incident involving one of their motor vehicles. Using information from their DriveRight 600, I was able to redirect their culpability of involvement. The cost of the DriveRight was repaid just on this occasion alone.

Driver Training, Australia

CarChip is a simple tool every fleet manager can use. Ever since we began using it and informing drivers that their vehicle "may" have a vehicle data recorder installed, citizen complaints have decreased.

University Fleet Manager, Nebraska

A note for our international customers.

OBDII on-board diagnostics became mandatory for all cars, pickups, and vans manufactured for sale in the U.S. and Canada beginning with model-year 1996. Many vehicles manufactured for sale elsewhere are also OBDII-compliant, and CarChip Fleet Pro and the OBD version of DriveRight 600E will work with these vehicles as well. However, there is no easy way to tell which are OBDII-compliant and which are not, even if the vehicle appears to have the proper connector. If you want to use CarChip Fleet Pro or the OBD version of DriveRight 600E, we suggest that you purchase a sample unit and test it in your fleet before committing to a larger purchase.

Three reasons why CarChip Fleet Pro is the best tool to manage your fleet:

1 Easy-to-Afford:

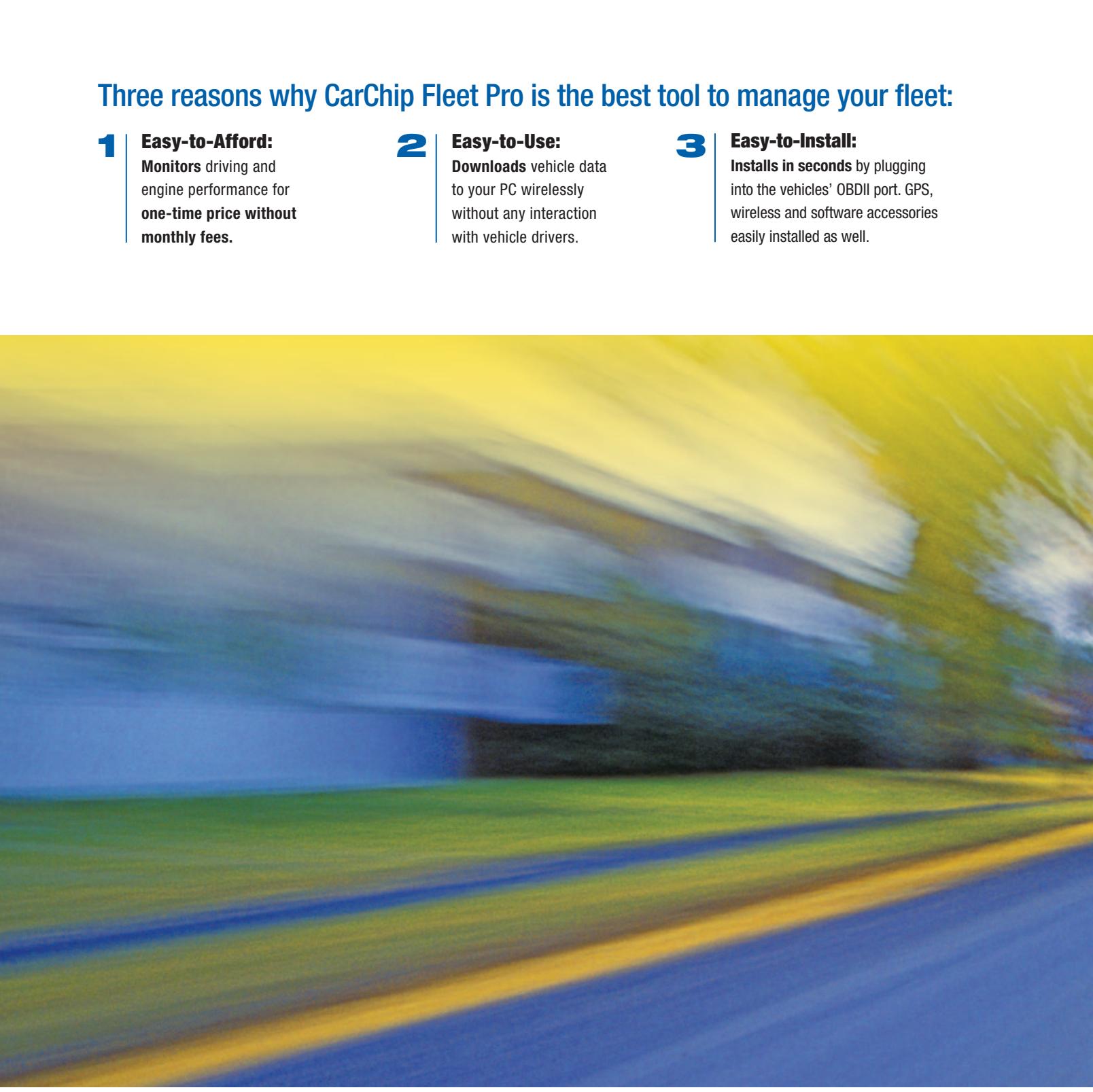
Monitors driving and engine performance for **one-time price without monthly fees.**

2 Easy-to-Use:

Downloads vehicle data to your PC wirelessly without any interaction with vehicle drivers.

3 Easy-to-Install:

Installs in seconds by plugging into the vehicles' OBDII port. GPS, wireless and software accessories easily installed as well.



DAVIS 
Davis Instruments

3465 Diablo Avenue, Hayward, CA 94545-2778

ISO 9001 CERTIFIED QUALITY MANAGEMENT SYSTEM

FORWARDING SERVICE REQUESTED