

RTV-5

User Guide



LIVEVIEWGPS

Introduction

Thank you for purchasing the RTV-5 hardwired live vehicle tracking system.

As of this writing, the RTV5 remains one of the most technologically advanced hard-wired GPS tracking device on the market, providing 10 second updates when speed exceeds 2 mph.



Figure 1.0 Window

It is no wonder the system that powers the RTV5 is used and trusted by Law Enforcement and emergency response agencies across the United States.

The RTV5 is also equipped with inputs/outputs. This means you can do such things as unlock your vehicles doors, disable the starter, remote start and even honk your vehicle's horn.

At LiveViewGPS, Inc., we go to extremes to deliver a world-class product, and are tirelessly dedicated to delivering a world-class customer service experience. For this reason, LIVE support is embedded directly into our tracking system.

To login go to the URL provided in the email with your username and password.

A screen similar to the one shown in Figure 1.0 (above) should appear on your screen.

In the Authorization Tab on the left side of the screen, (see larger view in figure 1.1), enter your login ID (provided to you by the LiveViewGPS activation staff) and below it your password, then click the LOGIN button.

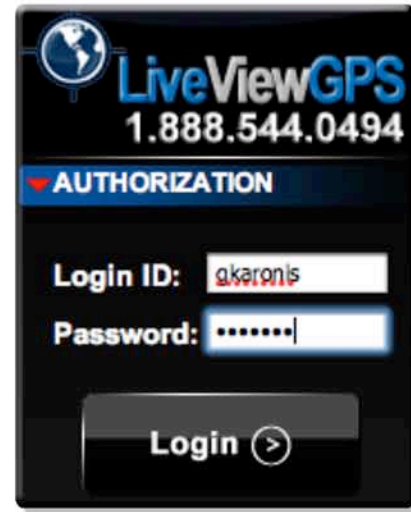


Figure 1.1

Once clicked, the LOGIN button will change to LOGOUT.

Once login is complete, the map will immediately jump to your area and the location of your vehicle(s). You may move your mouse over the vehicle to show specific information about the vehicle such as latitude, longitude, and the speed at which the vehicle is traveling. The location(s) of your vehicle(s) on the map are updated every 10 seconds.

You may move the map within the browser by clicking on the map, holding the mouse button down, and dragging the map. Double-click on an area to zoom in on it, or roll the wheel on the back of your mouse to zoom in and out on the center of the map.

Clicking on a vehicle marker (not the flag, but the vehicle marker itself) will open a window (see figure 2.0, next page) which gives you the ability to change the vehicle marker, change the name on the flag, change the color of the flag or flag text color, retrieve the address of the vehicle's current location, or auto-center (follow) the vehicle.

Web Interface

To change the vehicle marker, click on the vehicle marker image below the save button. A window will appear giving a selection of different vehicle icons you may use.

To change the text which appears on the flag, simply change the text in the field labeled FLAG TEXT. You may change the color of the flag or text by clicking the COLOR button to the right of each field, respectively.

When you've finished making your changes to the flag color, text color, flag text or vehicle marker, simply click the SAVE button.

The phone driver feature is available with paid access to the SKYPE network, allowing you to phone the driver through your PC. Other options listed are applicable to the RTV-5, such as locking and unlocking doors, enabling and disabling the starter, honking the horn, and remote starting the vehicle. This makes your RTV-5 a highly practical and efficient tool.



Figure 2.0 Vehicle Control Window

Control Panel

On the left side of the map screen you will find a Control Panel, providing tabs for Authorization, Map Control, Vehicles, Reports, Alert System, Search, Directions and Routing, Address Markers, Live Support, and Historical Playback. Clicking on any of these tabs will provide access to each group of functions. This control panel is the key to all functions and features of the web-based tracking system.

Through it the system provides access to reports, alerts, live support, 90-day historical playback and an unending array of other features – with more new features constantly being added!

Map Control Tab

You may select the "Map Control" tab from the control panel to the left, and the map control panel will open, providing controls to zoom, pan, and set map rendering options.



Figure 3.0 Map Control Tab

The LiveViewGPS RTV5 system relies on Microsoft Virtual Earth Maps to provide mapping of the coverage area. In larger metro areas, high-resolution aerial images (also known as Bird's Eye images) are available; in more rural areas, even Hybrid view may not provide the same level of detail as larger metro areas.

If you live in a rural area, you may find it more useful to select "Map View" in lieu of Hybrid or Bird's Eye view.

When fully zoomed, the maps provide detailed street-level information, enabling you to see the precise location from which your RTV-5 GPS tracking device is transmitting. When zoomed out completely, you have a complete view of the world.

"Optimize" will zoom as closely as possible while still keeping the device or group of devices on the viewable map at once.

"Traffic" will show traffic flow and congestion levels over major interstates and highways. Measured areas will be highlighted in green for normal traffic flow.

"Fences" will show all active geo-fences on the system.

If you have only one device, the "Center Map" checkbox will automatically center the map on that unit. If you have multiple devices, "Center Map" will position the center of the group of devices at the center of the browser. If you select a single vehicle (under the vehicles tab), the "Center Map" checkbox will tell the system to center on the selected vehicle.

Areas experiencing moderate slow-downs in traffic flow will be highlighted in yellow, and areas with major traffic snarls will be highlighted in red. Areas highlighted in black indicate complete blockages and traffic at an absolute standstill.

By default, your login will show ALL the devices associated with your account – up to a maximum of 512 units on screen at once.

In viewing all vehicles, you manually control the area of the map you wish to view by using the zoom and pan features to move the map within the view port.

Clicking the Map View button will show a simple view of the map. Satellite will show satellite imagery. Hybrid combines the most useful features of both Map and Satellite views, superimposing street lines and names over the top of the Satellite imagery.

The oblique setting (N, S, E or W) allows you to select between four different angles to view Birds' Eye imagery for a better indication of surrounding terrain.

In order to select an individual vehicle, you may select the "Vehicles" tab from the control panel, and select a specific vehicle from the drop down list.

Tracking Options

Selecting a single vehicle from the drop down list on the VEHICLES tab enables you to turn all other markers off, enabling quick isolation of the target from among a large fleet of vehicles.

This feature is often used in conjunction with the "center map" checkbox on the map control to "follow" a vehicle wherever it goes. Individual vehicle selection is also used to specify which specific vehicle to replay under the historical playback control.

Specifying a single vehicle to track has implications under a number of different controls. Check each section of the manual for the impact of individual vehicle selection on each function.

Reports

As this manual is being written, 20 different report options currently exist. More reports are being added regularly.

There are two types of reports – online reports which appear onscreen, and offline (Excel) reports which are emailed to the address you specify. Some reports - such as the vehicle mileage by state report or vehicle operating report – are available only via email largely due to the time required to generate the report.

Another major difference between online reports and offline reports is the fact that an online report is typically run for a single vehicle for a single day. Offline reports can be run for ALL your vehicles for a period of several months.

Note: When you request an offline report for multiple vehicles, bear in mind the ramifications of your request. An Excel spreadsheet only supports a maximum of 65,535 rows. If you have more data over a period of several months than 65,535 rows, the report will be truncated at row 65,535.

When a report is selected from the Reports control, a semi-transparent overlay appears on the map.

Note that the device markers continue to move, always reflecting their locations on the map beneath. On this reports overlay, you may select the specific parameters used for the selected report.

When reading a report, you will typically see a series of dates/timestamps, along with the physical address (or lat/lon, if the vehicle is continuing on a more-or-less straight course), as well as vehicle speed and heading. Headings are expressed in the range of 0 – 359, indicating the direction in which the vehicle is pointing. Zero is north; the value increments clockwise. Reports may be highlighted and copied/pasted into Excel spreadsheets or printed.



Figure 3.0 Map Control Tab

Alert System

Imagine, for a moment, that you're a homebuilder, HVAC installation contractor, electrical or plumbing contractor. You want to know what time your guys are arriving on the job site each morning... and what time they leave in the afternoon. With the Zone Alert feature of the LiveViewGPS Tracking system, you can easily define an unlimited number of "Alert Zones" (also known as "geo-fences") and the system will automatically notify you – by e-mail or SMS text message (or both) – any time one of your vehicles enters or exits the zones you define.

Defining Alert Zones couldn't be easier! First, zoom in on the area in which you want to create a zone notification. From here, it's as simple as clicking the Alert System tab on the Control Panel and selecting the option to "Show Alert Editor". A window similar to that shown in Figure 5.0 (right) will appear at the bottom of your screen. Click the "Add Zone Alert" button.

In the first field, select a name for your zone, and then click and drag the pushpins at each corner of the highlighted zone on the screen.

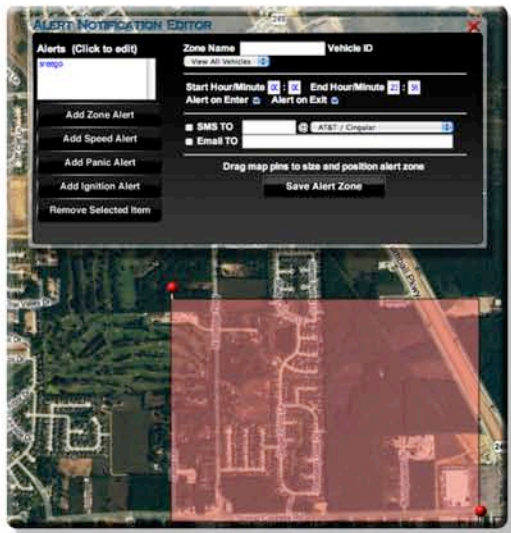


Figure 5.0 Creating An Alert Zone

You may roll the wheel on the back of the mouse to zoom in or out on the map, or click and drag to move the map while the Alert Notification Editor is open. An Alert Zone can be as small as a driveway, or as large as an entire continent.

Note: While an Alert Zone can be as small as a driveway, the functionality of an Alert Zone depends on the device making one transmission on one side of the box, and a second transmission on the opposite side (inside vs. outside).

Select the notification method you prefer. You can have LiveViewGPS send an SMS text message to your cell phone, or e-mail to any address you specify.

When you've finished specifying the e-mail address or SMS address, simply click the option to "Add Geo Fence Alert Zone", and the zone you've created will be added to the list at the left. It's that easy!

It's possible to draw a zone so small that the device is unlikely to make a transmission from within the defined area. When in doubt, to increase reliability of Alert Zone notifications, it is recommended that you make the box larger than the simple edges of a driveway. In fact, an area of 100 feet square is the recommended minimum size.

Note: SMS addresses are like email addresses. Some wireless carriers define their SMS addresses as 1 + areacode + cellnumber@[yourcarrier.com] (e.g. 143101234567@mycingular.net). Others do not recognize the address if there exists a 1 before the area code. If your SMS alerts are not arriving at your cell phone, try changing the SMS address without the 1 and saving the change to see if that makes a difference.

With a correctly defined zone, you receive notification anytime a vehicle enters or exits the area you've specified.

The Speed Alert is a close relative of the Zone Alert. Speed Alert enables you to define speeds at which you are notified. Speeds (like Alert Zones) can be defined for specific vehicles, or for every vehicle in your fleet. Any time one of the specified vehicles exceeds the defined speed; the LiveViewGPS system will notify you with an SMS text message to your cell phone, an e-mail, or both. From the same Alert Editor window, select the option to "Add Speed Alert". Specify a name for your alert (so that you can find it later in the list at the left), and select whether you want the alert to apply to all vehicles or a specific vehicle by selecting a vehicle from the drop down list. Fill in the speed in the next field, and you're almost finished.

Check the appropriate box and populate the fields for SMS text message or e-mail notifications (depending on the method you prefer), and select the option to "Save Speed Alert". You'll see your alert added to the list box at the left.

Alerts are easily removed by selecting the items in the Alerts list on the left side of the Alert Editor Window and clicking the "Remove" button. When you are finished creating or editing Alert Zones and Speed Alerts, click the [X] at the upper right corner of the Alert Editor Window to close it and resume normal operation.

Search

The "Search" feature enables the user to find locations of selected subjects within a certain area. For instance, if you were to type in "pizza" or "gas stations" in the "Find" window pushpins would populate on the map of the closest locations that matched your search criteria.



Figure 6.0 Search

A “Search Results” box will open on the right side of your screen (See Figure 6.0) with addresses and phone numbers for the locations appearing on the screen.

In the simplest of terms, if it is in the phone book, the LiveViewGPS Fleet Tracking system will show it to you on the map.

Address Markers

The Address Markers tab exists to enable the placement of user-defined markers on the map. These markers can provide quick and easy location of warehouses, offices, and other landmarks relevant to your daily use of the LiveViewGPS vehicle tracking system.

To access this feature, select the “Address Markers” tab and click “Show Address Editor”. After typing the name you wish to appear on the marker label, type the address into the address field and click the “Find Lat:Lon” button. The system will find the closest match in the database and populate the latitude and longitude with that location.

Alternatively, if you know the latitude and longitude (based on the position of a vehicle), you can simply type the latitude and longitude and click the “Find Street Address” button.

To place the marker on the map, click the “Add Address” button at the lower right corner of the Address Editor window. A target icon will appear at the location specified. When your mouse is placed over this target icon on the map, a small window will appear providing complete address information.

To remove an address marker, simply select that item in the list on the left side of the Address Editor Window and click the “Remove” button. When you are finished creating or editing your address markers, click the [X] at the upper right corner of the Address Editor Window to close and resume normal operations.

Directions And Routing

The “Directions and Routing” feature enables the user to enter a start and stop address, along with up to 20 additional stops on a route. The system will plot the route with driving directions.

By default, “no optimization” is checked. This will show the route in the order in which the stops were entered.

Note: Popups must be enabled on your browser in order to receive driving directions. Most browsers (IE, FireFox, Safari, Chrome, etc.) allow you to enable popups from our site specifically while continuing to block popups from unwanted sites.

If the checkbox is turned on for “Fastest Time”, the route will be optimized and the stops reordered in such a manner as to allow the driver to complete all stops in the shortest amount of time.

If the checkbox is turned on for “Shortest Distance”, the route will be optimized and the stops reordered in such a manner to allow the driver to complete all stops with the lowest possible mileage.

Please note that the shortest mileage is not always the fastest time – for example, interstate travel might predicate slightly higher mileage, but also higher speed and thus shortest time.

In order to receive driving directions, the popup blocker on your browser may need to be disabled temporarily to enable the pop-up window with driving directions to appear.

Live Chat Support

With LIVE Chat Support embedded directly into our tracking system (See Figure 7.0), you can ask questions or be given direction on how to use specific parts of our system even while you continue to interact with the system.

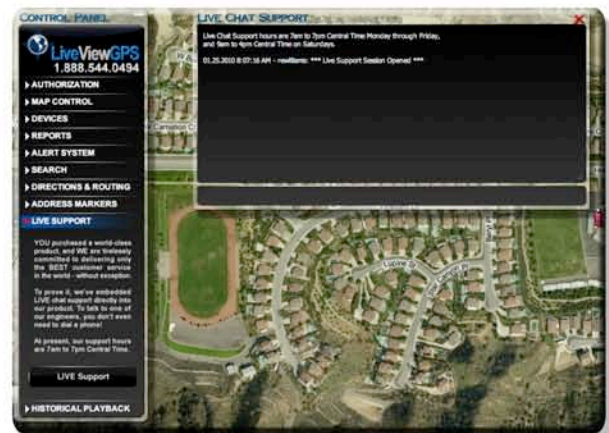


Figure 7.0 Live Support

There is no need to close the chat window or go try something and come back. In fact, you can leave the Live Support window open even while you manipulate the map – zoom in, zoom out, pan the map, select an individual vehicle or all vehicles, or even run reports or historical playback.

No other vehicle tracking product on the market provides such an advanced level of technical support and assistance to the user community – because no other vehicle tracking company cares as deeply about the satisfaction of its clients.

To talk with a LIVE support engineer, simply select the Live Support tab on the control panel, and click the button labeled “Live Support System”. A window will appear at the top of your screen similar to the one shown in figure 7.0

To send a message to Tech Support, simply type your question into the lower box, and hit “enter” when you are finished. The upper box will show the conversation between yourself and a LiveViewGPS support engineer.

Currently, we provide live online support between 7am and 7pm (Central Time) Monday through Friday and 9am through 4pm (Central Time) on Saturday.

Once this is complete, select the HISTORICAL PLAYBACK tab, and click the date on the calendar for which you’d like to see a playback. Finally, click the PLAY button on the top of the Historical Playback control. Once the PLAY button has been clicked, the vehicle marker will begin reanimating the precise path taken on the date selected.

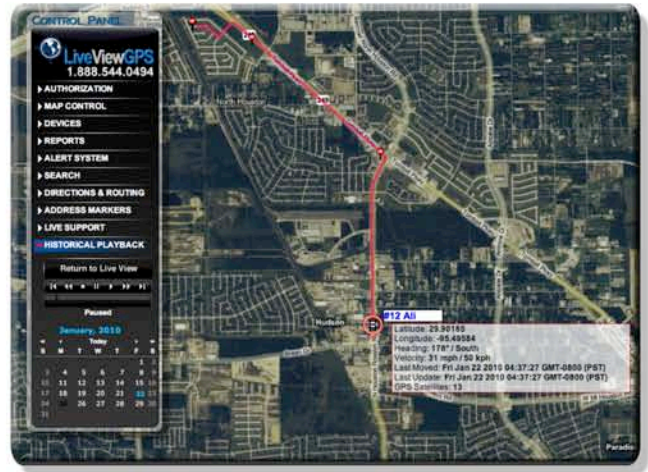


Figure 9.0 Screenshot Historical Playback

Historical playback

The Historical Playback feature enables you to geographically reanimate the path taken by a specific vehicle based on historical (report) data.

Before we can begin an historical playback, we must first select the specific device we intend to replay from the VEHICLES list on the Vehicles Tab. (See Figure 8.0 Below)

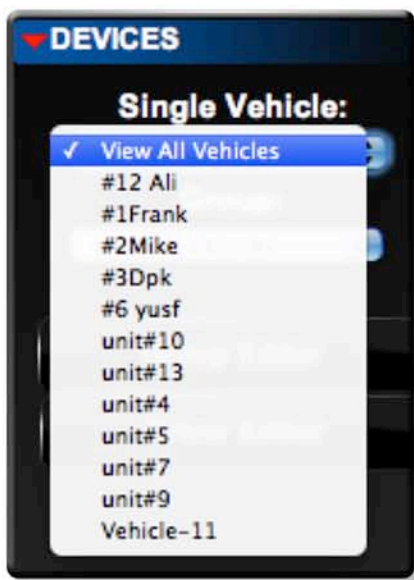


Figure 8.0 Historical Playback Vehicle Selection

The marker will leave a vapor trail over the route taken to enable you to easily view the route. At the lower left corner of the browser (on the browser status bar) you will see the date and timestamp corresponding to the vehicle’s marker placement. This value will increment as records are read from the historical database as the vehicle moves about the map.

As with the normal (live) playback, you may zoom or pan the map even as the playback continues to run. Likewise, you may mouse over the vehicle to see its speed at any point during the playback.

The playback will begin at midnight on the date selected and continue until the last record transmitted that day has been rendered. To terminate the playback and return to LIVE mode, simply click the button labeled “Return to Live View”.

While the playback is running, you may zoom in or out on the map – either by going to the MAP CONTROL tab, or by rolling the wheel on the back of your mouse. You may also PAUSE the playback by clicking the PAUSE button on the HISTORICAL PLAYBACK tab. You may play forward or reverse, jump to the end or the beginning.

To play high-speed forward or reverse, click quickly multiple times on the >> or << buttons on the playback control.

Activity Panel

The ACTIVITY PANEL (when clicked) slides open or closed from the bottom of the browser to show the flow of data transmitted from your device(s).

If you have only one device, you will see one row of data flow through the activity panel roughly once every 10 seconds any time the vehicle is moving. If the vehicle is not moving, no data will flow.

If you have more vehicles (devices) moving, you will see a much faster flow of data. The purpose of the activity panel is to provide an at-a-glance list of the vehicles which are moving, and how fast they're moving.



| Date/Time | VehicleID | Latitude | Longitude | Speed | Heading | Satellites | Ignition | Panic | Aux 1 | Aux 2 |
|----------------|-----------|----------|-----------|--------------|---------|------------|----------|-------|-------|-------|
| 3/25/2014 4:47 | #6 yuef | 29.89374 | -95.35932 | 72mph/115kph | 165 | 12 | On | Off | Off | Off |
| 3/25/2014 4:50 | #6 yuef | 29.88995 | -95.36783 | 88mph/141kph | 166 | 12 | On | Off | Off | Off |
| 3/25/2014 4:52 | #6 yuef | 29.87816 | -95.36993 | 72mph/115kph | 165 | 12 | On | Off | Off | Off |
| 3/25/2014 4:55 | #6 yuef | 29.861 | -95.36290 | 88mph/141kph | 166 | 12 | On | Off | Off | Off |
| 3/25/2014 4:57 | #6 yuef | 29.85817 | -95.36198 | 78mph/125kph | 165 | 11 | On | Off | Off | Off |
| 3/25/2014 4:59 | #6 yuef | 29.8553 | -95.36122 | 78mph/125kph | 165 | 11 | On | Off | Off | Off |
| 3/25/2014 5:01 | #12 Al | 29.81885 | -95.40586 | 5mph/8kph | 8 | 10 | On | Off | Off | Off |
| 3/25/2014 5:03 | #6 yuef | 29.88245 | -95.36951 | 72mph/115kph | 166 | 12 | On | Off | Off | Off |
| 3/25/2014 5:05 | #12 Al | 29.89291 | -95.37089 | 72mph/115kph | 169 | 12 | On | Off | Off | Off |
| 3/25/2014 5:07 | #12 Al | 29.81659 | -95.40021 | 4mph/6kph | 255 | 8 | On | Off | Off | Off |
| 3/25/2014 5:09 | #6 yuef | 29.84724 | -95.36993 | 72mph/115kph | 166 | 11 | On | Off | Off | Off |
| 3/25/2014 5:11 | #6 yuef | 29.84365 | -95.36836 | 72mph/115kph | 166 | 10 | On | Off | Off | Off |
| 3/25/2014 5:13 | #12 Al | 29.82962 | -95.40028 | 24mph/39kph | 173 | 12 | On | Off | Off | Off |
| 3/25/2014 5:15 | #6 yuef | 29.84987 | -95.36782 | 78mph/125kph | 169 | 9 | On | Off | Off | Off |
| 3/25/2014 5:17 | #12 Al | 29.81930 | -95.40212 | 22mph/35kph | 168 | 11 | On | Off | Off | Off |
| 3/25/2014 5:19 | #6 yuef | 29.83783 | -95.36888 | 75mph/121kph | 165 | 10 | On | Off | Off | Off |
| 3/25/2014 5:21 | #12 Al | 29.80912 | -95.40888 | 23mph/37kph | 244 | 10 | On | Off | Off | Off |

Figure 10.0 Activity Panel

Ghost Geo-Fencing

This feature allows you to create a report that lets you see if a vehicle or vehicles were ever at a particular location in the last 90 days.

You must first create a geo-fence of the area in question. Go to the Alert Editor and create the fence.

Next, go to the Reports Menu and select from the online report group "Zone Activity".



Figure 11.0 Zone Activity Report

Select one or all vehicles, select your zone that you created, select the date range.

Generate the report. You will now be able to see if/when your vehicles entered the zones you just created.

For Additional Information



For additional information, please visit us at www.liveviewgps.com for the latest information, tips, and upgrades available for your RTV5.

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U.S. Patent Number 5,963,956 and 6,647,269. U.S. Patents Pending.

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WARRANTY COVERAGE

LiveViewGPS, Inc. (LVGPSI)'s warranty obligations for this RTV5 series tracking unit are limited to the terms set forth below:

LVGPSI warrants the LVGPSI RTV5 series tracking unit against defects in materials and workmanship for a period of one (1) year from the date of original purchase ("Warranty Period").

Specifically, the date the equipment is shipped to the customer.

If a defect arises and a valid claim is received by LVGPSI within the Warranty Period, at its option, LVGPSI will (1) repair the product at no charge, using new or refurbished replacement parts, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product.

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This Limited Warranty does not apply to any non-LVGPSI hardware product or any software.

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