

SMARTY video recorder with GPS



Questions and answers:

How does SMARTY create a video event?

There are 3 access accelerometers in the device, front-back, side-side and up-down. Each sensor independently measures how fast the vehicle decelerates or accelerates. If the vehicle accelerates or decelerates at a faster rate than your sensitivity set point, it starts a video event. The camera is constantly recording video, however when the time period passes and there is no trigger –that video is erased. If you have your video duration set at 20 seconds before and 10 seconds after and a video event is triggered, the device captures 20 seconds before and continues on for another 10 seconds and the video event is saved in chronological order.

1. Is the device recording video all the time?

No. It records up to 20 seconds before and up to 15 seconds after an event begins and the duration is settable in software set up. You set the range in seconds when you set up the device parameters. Video ONLY recorded after a gforce triggered event or when manual button is pushed on the device.

2. What happens when a video event is triggered?

The device beeps and the blue LED flashes throughout the rest of the recording of the event. In software you can choose to NOT have the device beep and warn the driver it is being recorded.

3. Is the sensitivity for the 3 gforce accelerometers settable?

Yes, it is set up in software. There are 3 accelerometers in the device. 1) front –back and most commonly used in activating video events, 2) right left or side-side, caused by quick hairpin turns, 3) up-down caused by speed bumps or pot holes. Each is default set at 5 for common automobiles. If you find the unit is too sensitive---meaning it goes off too easily to create video events, then you can turn it down to 3 or 4, if it is NOT recording events from significant breaking or bumps then it is not sensitive enough and you will set it higher for more sensitivity. Generally large truck with a lot of mass will have higher (more sensitive) setting numbers and lighter sub compact cars are lower—less sensitive setpoints.

4. How do I retrieve video events?

Remove the memory card from the device and insert it in the card reader, attached to your PC. All video events are then uploaded to the SMARTY software in your PC in chronological order. You then click on an individual event to view the video.

5. Can I save individual video events?

Yes. Individual events can be uploaded and saved to your PC hard drive for later viewing or as a permanent record of an accident or near miss.

6. What are the recording modes?

This recording parameter by EVENT or NORMAL (with GPS logging) is set in software and saved to the card. The card is reloaded to the device and all new settings are saved.

Event: Only the gforce or manually actuated video event is recorded with GPS of the event route

Normal: GPS routes are recorded, if there is a video event it is shown as a camera icon on the route for viewing.

7. Can I set the quality of the video that is recorded?

Yes, There are 2 ways to set up quality of the video.

1. Resolution (quality related to the number of pixels 640X480 or 320X240)
2. Frames per second: Settable from 1 to 30 per second.(Higher number of frames is better quality of the picture).

If you set the lowest pixels rating and the lowest frames per second, you can get more recording. For instance, with the 2GB card supplied if it is set at 1 frame per second, you can get 2019 minutes of recording. If it is 15 frames per second, you can only get 37 minutes of video.

8. How can I increase recording time?

SMARTY comes with 2GB memory card. You can buy 4, 8 or 16 GB memory cards or you can also increase recording time by reducing the resolution quality of the picture and reducing frames/second.

9. If I buy a 16GB memory card how much data can I store?

A 16GB card at lowest resolution and lowest frames per second will store 167 hours of driving.

A 16GB card at highest resolution and highest frames per second will store 7 hours of driving.

Remember there are many mid range settings in between that average somewhere in between. If you buy a larger GB card, you will need to initialize it (program it) using the tool menu on the software already in your PC from the original card.

10. Do I need to buy any software?

No you don't, SMARTY'S software is preloaded on it's 2GB memory card. The memory card is removed from the device and inserted into memory card reader in PC and uploaded into the PC. Once software is uploaded, video events and GPS logs are uploaded to the software and viewed on the PC.

11. What about wireless costs?

The SMARTY is not a wireless device. There is never any monthly wireless cost which typically runs \$25--\$30 per month per vehicle. . Video events and GPS route logs are saved to the memory card.

12. How are routes (trips) recorded?

SMARTY PLUS with GPS must be set to the normal mode which will record GPS routes. Routes are recorded and called log events, that are viewed individually. They don't have video---unless there is a video event triggered, when you get to that point on the route, the video is seen. Each route can be viewed on Google map, Earth or Hybrid (combination).

13. What is Google map, Earth or Hybrid ?

Google map is a conventional map view showing street names, Earth is a birdseye view of the route from above showing buildings, vegetation and landmarks, Hybrid is an Earth birdseye view with street names added. Earth views are very handy when viewing an exact location and route before an accident. There is NO disputing routes, times, or speeds of the vehicle as an accident unfolds. This is invaluable in protecting your drivers from misplaced fault in an accident.

14. Can I speed up viewing of GPS route on Google map/ earth?

Yes. You can significantly increase the speed up to 16 times normal speed of the map route and watch vehicle icon more quickly through its route. You can also “grab” the vertical bar and move it throughout the route to a specific location.

15. What else can I do with Google Earth?

Using this feature, you can see a “breadcrumb” view of the entire route by converting an event GPS log to a KML converter utilizing the Google Earth program.

16. Can I view over speed limit or gforce events?

When set to the normal mode, software allows you to filter out spots above what speed you have set or gforce events above a set point. These locations will show on the screen. Click on a location and it takes you to that spot where the speeding or gforce event happened.

17. What happens when the memory card is full?

In software you can set it to overwrite the oldest events. Or it can be set to stop recording, when memory card is full. If set to overwrite, the RED LED will flash as it overwrites the oldest data.

18. What data is shown when viewing a video event?

You view a driver’s eye view of the vehicle up to 20 seconds before and up to 10 seconds after and event is triggered. In addition to the video, the speed of the vehicle in each frame is shown. The location route of the vehicle in each frame is shown. The output from the 3 G-force sensor is shown, indicating the intensity of the triggered events. The viewer can watch the video in real time or slow down or speed up or stop the video at any point. It also shows the vehicle ID and exact date and time of the event to the second.

19. Can I save pictures of the event?

Yes. Individual frames of any video can be saved as JPEG picture image. Each image can have a file name and any comments for easy future reference: ie: Accident Kenworth #32 Joe Peters, Reading PA 3-1-10

20. Can I save video events or routes?

Yes. They also can be saved as files on your PC for future reference.

21. Can I print pictures or make a report of a video event or GPS route?

Yes. Individual frames of any video can be printed as JPEG picture image and a report produces showing up to 4 images per page and a page with g sensor graph and map . Each report can have a file name and any comments for easy future reference.

22. Can I get an insurance discount after installing a Smarty device?

Yes. Many insurance carriers (especially on commercial accounts) are currently offering premium discounts in commercial applications. Check with your provider and see.

23. What if a driver removes power or power is interrupted because of a crash?

SMARTY has a super capacitor inside that acts as a battery to provide the device with enough power to complete videoing and recording the complete event.

24. Is SMARTY easy to install?

Yes, yes, yes. It's so easy any layman (non-mechanic) and do it in minutes. The device has a cleverly designed mounting bracket with a flat brace where you put 3M double sided tape (supplied). You position the device on the windshield –usually behind the rear view mirror so that it does not interrupt drivers view. This bracket is stuck to the windshield and the SMARTY fitted into the round bracket. A plastic “nut secures the SMARTY device to the bracket and it can be rotated until the proper camera angle is found then securely tightened. It is supplied with a cigarette lighter cord that is plugged into the SMARTY and the cable routed around the windshield with cable wire adhesive connectors supplied with the unit. Once routed, you can plug into the cigarette lighter many commercial accounts may want to wire the cable directly to battery power to prevent disruption of power (either purposely or by accident)

25. What is the best justification for buying a SMARTY?

Accidents are a major expense for commercial fleets. Having SMARTY on board inherently makes an operator drives safer and more alertly. If you can reduce accidents by only 10% per year you could easily justify payment for each \$340 SMARTY in your fleet in a matter of months. Even without a reduction in accidents, you now have video PROOF of EVERY accident, whether it is your driver's fault or not. If he is not at fault and the SMARTY proves it, you could easily justify the expense for the fleet from one accident liability avoided.

Also, now that drivers are accountable for start times, finish times and routes, they become more productive and less likely to take side trips or “wild goose chases” because all the routes are recorded on the card. Because of this accountability mileage and fuel usage can drop and delivery times and performance improved. All at NO monthly costs and NO hidden fees.

26. What kind of vehicles do they fit to?

Trucks, cars, buses, taxies, construction equipment, forklifts, personal carriers, recreational vehicles, motorcycles, delivery and service vans, bucket trucks, aerial lifts, etc. Any vehicle you want to video potentially damaging events and no cost tracking of routes.

27. What about warranty?

Warranty is 1 year from purchase date through KEYTROLLER, LLC in Tampa Florida. Since the SMARTY has NO moving parts and nothing to wear out, warranty is negligible.

28. How do I buy a SMARTY?

KEYTROLLER, LLC from Tampa Florida stocks the devices for immediate delivery. List price for the device with GPS is only \$340 each and we do offer fleet discounts depending upon fleet size. Remember, there are NO hidden costs with a SMARTY. Once you buy it you are done---no software to buy and no monthly GPS wireless service bills. Isn't it time you give your operators better protection and accountability and protect your company and your drivers from liability for accidents that were not their fault? Check out or commercial demo offers available.

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