

# SMARTER

## DUAL video drive recorder with GPS

### Questions and answers;



SMARTER DUAL Camera Drive Recorder

#### 1. How does SMARTER record video?

The device has **TWO** recording modes---active at same time:

##### 1. Continuous

Front and interior views continuously recorded while power on. When the capacity of the SD card is reached, the oldest files are overwritten

##### 2. Event--triggered

Events are triggered by either a G-force exceeding the preset limit or emergency external record button

Time can be set: 1 min before, 1 min after, 2/2 or 3/3 Stored events on the SD card will NOT be erased unless user erases the event on the PC

#### 2. Is the device recording video all the time?

Yes. The DUAL camera constantly records video inside and outside of the vehicle. Amount of recording time depends on the SD GB size and video quality settings + number of already saved video events.

#### 3. How are video events triggered?

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 1 minute before and 1 minute after and a video event is triggered, the device captures and saves as an event and the event is saved in chronological order. This can be set in software for 1, 2 or 3 minutes before and after.

The kit also comes with an external "alarm record" button. When pressed a video event is saved as a manual recording and added to the chronological event order in the SD card.

#### 4. What is the advantage of DUAL cameras?

ACCOUNTABILITY!! Dual (inside and outside view) cameras record an upcoming accident/incident from the drivers view looking out, the inside camera records what happens to the driver before and after the accident/incident. This provides management with video proof of cell phone usage by the driver—THE major cause of accidents (and near misses) today. Both actual accidents and near misses (slammed on brakes) are recorded as events and on the continuous loop recording.

**5. What happens when the SD memory card is filled up?**

The continuous video will simply overwrite the oldest video. Triggered video will be saved as an event. Stored event recording data in SD card will not be erased unless files are erased by the person reviewing the SD card.

**6. 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 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, 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.

**7. 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 SMARTER software in your PC in chronological order. You then click on an individual event to view the video.

**8. Can I save individual video events?**

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

**9. What is the IR (infrared) module?**

The IR lighting module makes it possible to record the images inside the vehicle at night. (For brighter lighting, turn to No. 2 and for dimmer lighting, turn to No. 1 on the camera IR module)

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

Yes, if you set the lowest pixels rating and the lowest frames per second, you can get more recording time.

**11. 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.

**12. What is the maximum recording time of the SD memory card ?**

SD Card size	Maximum Recording time	Event recording time	Number of event recording According to previous recording Time set-up		
			1min.	2min.	3min.
2GB (standard w/ device)	90min.	64min.	25	20	16
4GB	180min.	120min.	50	40	30
8GB	370min.	280 min.	90	80	70

### **13. Do I need to buy any software?**

No you don't, SMARTYER'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.

### **14. What about wireless costs?**

The SMARTER 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.

### **15. How are routes (trips) recorded?**

SMARTER with GPS will record GPS routes that can be viewed with video. Each route can be viewed on Google map, Earth or Hybrid (combination).

### **16. 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.

### **17. 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.

### **18. 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.

### **19. What data is shown when viewing a video event?**

You view a driver's eye view of the outside and the interior view of the vehicle up to 3 minutes before and up to 3 minutes 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 2 synchronized videos 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.

### **20. Can I save pictures of the event?**

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

### **21. Can I save video events or routes?**

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

### **22. 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.

### **23. Can I get an insurance discount after installing a SMARTER device?**

Yes. Many insurance carriers (especially on commercial accounts) are currently offering premium discounts in commercial applications. Check with your provider and see. It is well known and well documented that cell phone usage (particularly texting) is THE major contributor to accidents.

### **24. Is texting while driving illegal?**

As of Jan 26, 2010 it is now illegal for truck and bus drivers who travel interstate roadways to use a handheld device to send text messages. According to U.S. Transportation Secretary Ray LaHood, the new law which is supported by the trucking and bus industry, charges violators up to \$2,750 in fines. Currently (as of 5/2010) 25 individual states have completely banned texting while driving while most states are seriously considering the same action.

### **25. Why is texting so dangerous while driving?**

- *Twenty-eight percent of traffic accidents occur when people talk on cell phones or send text messages while driving, according to a 2010 study by the **National Safety Council**.*
- *Drivers that use cell phones are four times as likely to get into crashes serious enough to injure themselves. (**NHTSA, Insurance Institute for Highway Safety**)*
- *Research from the **Federal Motor Carrier Safety Administration** found that drivers sending and receiving text messages take their eyes off the road for about 4.6 seconds out of 6 seconds while texting*
- *Driving while distracted is a factor in 25 percent of police reported crashes.*
- *Driving while using a cell phone reduces the amount of brain activity associated with driving by 37 percent (**Carnegie Mellon**)*
- ***Virginia Tech Transportation Institute** concluded that people who send text messages while driving are 23 times more likely to be in a crash (or what they call a near-crash event) than non distracted drivers.*
- *More than 500,000 people were injured and nearly 6,000 people were killed last year in motor-vehicle accidents involving a driver who was distracted while using a cell phone or texting device, according to the **U.S. Department of Transportation**.*

### **26. Is SMARTER easy to install?**

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. The camera bracket is stuck to the windshield and the SMARTER fitted into the bracket. The bracket allows camera angle adjustment 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 SMARTER and the cable routed around the windshield. 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). If you are also using it for night recording of the interior of the vehicle, you will need to plug the power cord to the IR illuminator module.

### **27. What is the best justification for buying a SMARTER?**

Accidents are a major expense for commercial fleets. Having SMARTER 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 SMARTER 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 SMARTER proves it, you could easily justify the expense for the fleet from one accident liability avoided.

**Accountability for “texting” has become a huge issue.** Now you have proof positive that your driver is texting ---even in near misses. In those cases where the driver looks up from texting and slams on the brakes---this triggers the recorder to save the event and outside and inside can be clearly seen on the video review by management. Corrective or disciplinary action can then be taken with proof positive video.

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.

### **28. What kind of vehicles do they fit to?**

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

### **29. What about warranty?**

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

### **30. How do I buy a SMARTER?**

KEYROLLER, LLC from Tampa Florida stocks the devices for immediate delivery. List price for the SMARTER with GPS is only \$500 each and we do offer fleet discounts depending upon fleet size. Remember, there are NO hidden costs with a SMARTER. 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 our commercial demo offers available.



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