

An Introduction to the **CopTrax™** Smart Video System

CopTrax™ is an innovative High Tech/ Low Cost alternative to the standard video box DVR based systems offered by several of the most common providers of police video. The CopTrax™ makes use of the Laptop computer often used in police car applications. By eliminating the need for a DVR box, we are able to dramatically reduce the cost of the system to the department while offering many high tech features that the more expensive systems do not offer.

CopTrax™

Smart Video Solution Features

- CopTrax™ Cost Much Less than Similar Police Systems
- 3G/4G Cellular Live View Video Streaming to Your PC
- GPS Vehicle Speed, On Screen Mapping, Geo-Fencing
- Live GPS Tracking for added officer safety & oversight
- CopTrax™ Cost Much Less than Similar Police Systems
- No DVR to purchase, System runs on Laptop PC
- RFXP® (Request for Extra Patrol) Verification & E-mails
- D1/HD1/CIF Selectable resolution image quality
- Customer on-Site Host Server Network or Cloud Option
- Cloud Video Storage & Archival available Microsoft Azure
- Redundant Data File Storage Integrity via Cloud Storage
- Live Audio from Car & Wireless mic or Droid Smartphone
- Report Incident Classification Selection
- Searchable database by suspect name, case number
- Booking, interview room video integration with URL.
- Crime Data Point Mapping by Incident Type
- Video File Comments per Individual Video File

- Search, sort and Review incidents by event classification
- Transmit & Record A&V in Real Time from Your Smartphone
- Upgradable for Long Service & Future Technology

Why does CopTrax™ cost so much less than other police video systems?

CopTrax™ makes use of existing technologies and hardware by running on the laptop already in many Law Enforcement vehicles. In this way the most expensive portion of the hardware (DVR) can be eliminated, meaning less hardware in the vehicle, less components to fail, less hardware to install, less to maintain, and "0" chance of DVR obsolescence as the conventional DVR has been completely eliminated.

Real Time Live View Police Car Video to your PC

Law Enforcement mobile video is now offered in Real Time with the CopTrax™ intelligent mobile video solution. Look through the cameras on your patrol cars video system to help insure your officer's safety and security. This system offers D1 resolution for exceptional clarity for evidence documentation.

Real-Time GPS Location

View the real-time GPS location of any law enforcement officer in your department instantly on an easy to read map. This provides critical support to dispatchers and fleet managers. The refresh rate can be adjusted between every 10 seconds or every 3 minutes. Never wonder where an officer is again.

Report Feature Help Track Cases Through Prosecution

The CopTrax™ is more than just a state of the art mobile video solution, it offers another data management tool in the area of evidence "tagging", where the officer has the ability to define the type of incident and "tag" the event or incident for future search, review or report generation. This is essential in reduction of time spent in documenting and reviewing the events for future prosecution, as well as building a geo database of incidents that can then be extrapolated to benefit the law enforcement agencies in an effort to highlight hot spotted for particular criminal violations, that may require additional law enforcement presence or visibility, over areas not affected by higher rates of these incidents.

Report Types Help Define Crime Mapping

In order to permit expeditious and intuitive use of the system at the officer entry level, the developers added simple pull down menus with common classifications of incident types. By addition of this simple menu, a mechanism was set in place that now permits higher-level management the ability to search and review by those incident types. Traffic, Larceny, All Other, Death Inv., Sexual Assault, Robbery, Assault, Burglary, Felony Theft, Traffic Citation.

Video File Comments

Why waste hours watching 15 different video files to determine which one had the incident you wanted on it, when you could simply take 2 minutes and read the comments to learn what each video incident had on it? Another added value of using an intelligent solution provided from our friends “across the pond” is the ability to attach comments to a video file. Officer comments can be added to the Incident Report, that in the future may be important additional information in a future prosecution, or may expedite a search for a particular case file years ago after many of the other details have changed but the officer remembers a defining detail he logged in the comments.

Crime Mapping via Data Points

An added benefit of having CopTrax™, the interactive Real Time Law Enforcement Mobile Video solution is the fact that all events/incidents are Geo “tagged” by their data points. In other words, all incidents are not only documented by video, their location is logged and embedded into the video file as another means of data sorting or management. It is possible to chart all incidents “Data Points” on a map and provide a visual representation of where recent crimes are most frequent. Incident Type data are color coded, this can quickly provide a visual representation on a map of the area of concern and show all incidents that have occurred in those areas over the selected dates, as well as provide a color coded indication of what type of incident this may have been.

Video Loss in Accidents

A conventional hard drive in a video system can survive about 3 "G"s, which explains why so many of them crash the hard drive when the bus hits a large bump, big pothole, storm curb or other object even at slow speeds.

When you are purchasing a video system to protect your district /agency from liability and act as an expert witness in the worst case scenarios, it seems a wise idea to make sure the one you invest into, will not fail you when you need it most, such as in the case of a bad accident.

This is the type of decision that separates those of vision and career advancement from those who might look back in hindsight after losing the lawsuit due to a failed hard drive system that was damaged in the crash.

Law Enforcement officers are occasionally involved in severe vehicle crashes, much in excess of 10+ "G"s that will often leave the in vehicle recording system inoperative when the fragile hard drive crashes. What is often lost is the entire pursuit of a perpetrator, including possible additional traffic violations, enforcement obstruction such as evidence tossed out the windows, possible aggravated assault in the case of shots fiord at the officers....

The loss of this Priceless Video Evidence in a vehicle crash that may end the pursuit is not only unacceptable but also preventable.

With CopTrax™ the Priceless Video Evidence is constantly transmitted in Real Time to the Windows/Azure Cloud or to an on site server should the department wish to host the servers themselves.

Redundant Download Data Security

In the past several different makes and models of conventional hard drive based DVRs have been offered that incorporated the use of removable memory storage devices that required the user to remove the solid state SD card and use it for downloading the data into a customer PC.

Recent incidents have been brought to our attention by customers where the SD card was "damaged or missing" preventing the customer from the valuable video evidence they invested in, casting shadows on the process they incorporate for video file security and serious doubts on those involved in the process who may have a potential conflict of interest.

Cloud Redundant File Security

When customers choose to incorporate the Microsoft /Azure Cloud network storage, they receive a added level of data redundancy and evidence integrity with their built in process for insuring security.

On Site Server

Departments and agencies that choose to manage their data and storage on their site will also receive the additional data security of the video storage on their laptops.

Levels of Oversight Provided By "Active Mobile Video"

Active Mobile Video systems provide multiple levels of management oversight from simply reminding the driver they are doing something unsafe to alerting management and opening a Live View with 2-Way communication.

Active Geo-Fencing Border Violation Alerts

This is a built in feature of the CopTrax™ innovative design that adds value to those fleet applications where patrol areas or jurisdiction boundaries are relevant to the performance of their duties.

Active Hi-Speed Pursuit Alerts

This is a built in GPS feature of the CopTrax™ innovative design that adds value by letting dispatch or supervision know when a CopTrax™equipped vehicle enters a potentially dangerous hi-speed pursuit, by exceeding the speed threshold for routine safe operation.

Live View, E-mail / SMS Alerts to Dispatch or Network Operator

The next level of oversight provided would be alerts to the Network Operator, so they may now be aware of the incident the officer is involved in.

Droid Smartphone Accessory For Officer Mobile Live Video Optional

The CopTrax™ mobile application is a dynamic web-based software that instantly reports global position and turns every officer Motorola Droid™ Smartphone into a body-worn mobile digital video recorder. Start and stop recording with your Bluetooth earpiece plus transmit images back to the station in real time. This is not the primary vehicle high-resolution camera; this simple permits the officer to have a mobile real time Live View accessory to the system.

Powerful Video Evidence

CopTrax™ documents all audio and video incidents helping to eliminate false accusations, frivolous law suites and agency liability. CopTrax™ audio/video evidence increases the likelihood of successful prosecution, reduces the court appearance time for officers and reduces the time spent on written reports. CopTrax™ is a powerful public relations tool to improve the community and media perception of the law enforcement agency. Video evidence is a great way to enhance training (Post Incident use of Video), and improve officer performance and professionalism.

CopTrax™ Software

CopTrax™ uses a web-based application, allowing it to be accessed from any Internet device with a browser. Use CopTrax™ from your desktop computer, laptop, smart phone, or PDA. Video status updates and reports can additionally be sent via E-mail. Multiple access permission schemes are possible for security. An administrator to read-only or completely restricted can control user access.

Human Resource Allocation

When intelligent data management tools like CopTrax™ are employed by law enforcement agencies they are provided the means to make the best possible use of limited resources and apply them to those areas most in need of their services.

Drug Interdiction task forces are wasting their efforts if they target areas with little incidence of these drug related incidents. By directing their efforts in geo locations where this drug related trafficking is highest they can maximize their productivity and their opportunities to take the biggest bite out of those involved in three activities.

RFXP® (Request for Extra Patrol) Validation

Common requests from prominent corporate, commercial or residential concerns in your area are often made for increased Law Enforcement Request for Extra Patrol visits, Business Park patrols, Neighborhood patrols, Commercial Business security door or perimeter checks after hours, Commercial requests for on site visits after recent crime activities, or residents that simply feel less threatened when the police pass their homes.

The visionary development team "across the pond" at CopTrax™, now provide a mechanism that can provide an E-mail to those requesting this additional level of support when requested. The benefit to Law Enforcement is twofold;

These E-mails generated by the CopTrax™ system, validate that the officer has acted in response to their request providing the requested additional level of Law Enforcement presence at their commercial facility, business, neighborhood or home.

This mechanism can be employed to continually provide a high level of corporate, business and public awareness of the high level of dedication and responsiveness that the current administration at their Law Enforcement department or agency provides. Whether Chiefs or Sheriffs are elected or appointed, is not as important as the degree to which those supporting, campaigning or voting for them believe they have found the person most responsive and concerned with their public safety needs.

It is in the best interest of every appointed or elected Law Enforcement Administrator to have this tool of corporate and public opinion validation to the high level of service your department or agency actually provides those served, who can show their appreciation at the polls or in other ways of support.

The International Association of Chiefs of Police

has published a document to assist others in the law enforcement community with regard to: In-Car Video Camera Systems Performance Specifications: Digital Video Systems Module

As “Section 3 - Officer/Occupant Safety” was the first issue to be addressed by the IACP's specification, it follows that officer /Occupant safety is paramount in any new technology-installed into a police vehicle.

As such it should be noted that there are several “Officer / Occupant Safety” related aspects of the new Mobile Video concerned with “Officer / Occupant Safety” when looking for a mobile video system for their police car fleet.

1. Would it enhance the safety of the Officer and or Occupant, if there were a automatic means to immediately notify the CMS operator or Dispatcher in case of severe vehicle impact or crash, even if the officer was unable to respond or unconscious?

2. Would it enhance the safety of the Officer and or Occupant, if there were an automatic means to immediately notify the CMS operator or Dispatcher when the blue lights are activated or an officer in pursuit exceeds the Hi-Speed pursuit speed threshold?

3. Would it enhance the safety of the Officer and or Occupant, if there were a built in means to immediately open a 2-way voice communication between the officer and the CMS operator or Dispatcher in case of emergency response required, when normal communication method is non operational?

4. Would it enhance the safety of the Officer and or Occupant, if there were a built in means to immediately transmit video data files during an emergency event so supervisors can immediately view the event and instruct the officer how to respond to the event in real time?

5. Would it enhance the safety of the Officer and or Occupant, if there were a built in means to immediately permit supervisors to receive visual status on officer physical condition during and after an event, in case signs of extreme stress, physical injury and or fatigue require relief or medical assistance to that officer?

6. Would it enhance the safety of the Officer and or Occupant, if there were a built in means to immediately alert CMS operator / dispatch when a patrol vehicle exceeds the Geo Boundaries, in cases when officers might be hostages in their own vehicles?

7. Would it enhance the safety of the Officer and or Occupant, if there were a built in means to immediately permit the CMS operator / Dispatch to speak directly to the person who is holding the officer hostage, so that the immediate knowledge of the video evidence of their face (transmitted via 3G live) and the fact help is on the way might permit the CMS operator or Dispatcher to talk the perpetrator down before the officers life is taken?

8. Would it enhance the safety of the Officer and or Occupant, if there were a built in means to immediately locate the officer's vehicle in cases where the officer fails to check in?

9. Would it enhance the safety of the Officer and or Occupant, if there were a means to immediately let CMS operator or dispatcher know in case of severe vehicle impact or crash by E-mail to their PDA or Blackberry device?

10. Would it enhance the safety of the Officer and or Occupant, if the CMS operator or dispatcher could visually monitor potentially dangerous stops made by patrol officer, so another set of eyes can watch the stop and immediately send assistance if needed?

11. Would it enhance the safety of the Officer and or Occupant, if the CMS operator or dispatcher could become an active participant in supporting a fellow officer who might need support by watching their back and warning them through the Droid optional system when passengers exit the vehicle out of their line of sight to try to get behind them?

In Summary it is clear all law enforcement could substantially and immediately enhance “Officer / Occupant Safety” by exploring some of the new 3G/4G technology mechanisms to greatly increase the safety of law enforcement officers with existing technology in CopTrax™ mobile video system products that can offer the benefits with a lower hardware cost than the most common systems now offered in the law enforcement marketplace.

There is no reason to send officers into a hostile world without equipment that can save their lives when they can have the immediate backup of 3G/4G Live View and live event alerts provided by the new CopTrax™ based systems from Falcon Direct.

With CopTrax™, your community will be better served, your officers will be safer, your administrators can function at maximum efficiency, and court time can be significantly reduced. That's what the CopTrax™ Smart Video System is all about!

For a demonstration without obligation, please contact us to set up a meeting at a time and place most convenient for you. We'll be there!

The Falcon Team
At your service!

Smart Video.doc 5/11/2011

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