

CopTrax™

**Providing Real Time Data
Enabling Real Time Decisions**

Real Time AVL (Automatic Vehicle Locator)

Stream “Live” Video from Vehicle to Command & Control

Satisfy Evidentiary Requirements

Instant Incidents Analysis

“CopTrax is the very best camera system I’ve witnessed or utilized in my last 31 years in Law Enforcement. This system is so far advanced that we will never have to purchase another system ever again.”



Eddie Ingram
Chief of Police
Summerdale, Al.

“I immediately realized the potential the software had for first responders. We tested CopTrax during a couple of exercises working with the Office of Naval Research and later as a stand-alone test agency.

The software gives us the ability to stream live video from squad cars to my desktop, view real time or recall information collected on vehicle tracking, as well as real time AVL.

The program allows population of our on-line crime status maps with a single button stroke. From an officer safety stand point, we have the ability to locate officers through the AVL should they require help without opportunity to call in their location.

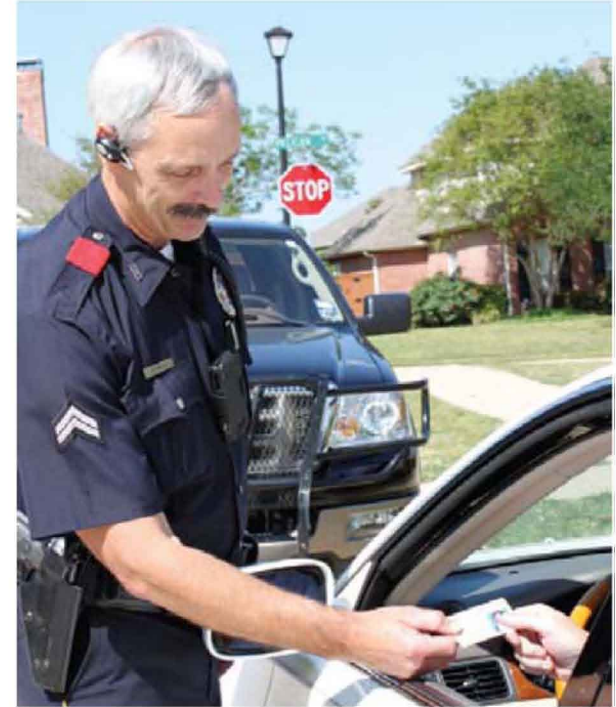
The potential for this new technology is limited only by the agency’s imagination.”



Allen Smith
Chief of Police
Atlantic Beach, N.C.

Real-time Leading Edge Solution

- Instant access to **real-time GPS locations** of officers or vehicles
- **Easy to read map** provides critical support to dispatchers
- **Real-time “law enforcement” mobile video**
- Administrators can **remotely view live situation** through the camera on officer or vehicle video system
- **HD (High Definition)** system provides exceptional video quality and clarity
- **Instant retrieval and analysis** of information



Officer streaming video to Headquarters via his Smartphone

Wireless & Data Storage Options



- **Public Safety**

- Live Streaming over 3G/4G Cellular Broadband
- Video Uploaded over Public/Private WiFi Hotspots through “persistent” encrypted Tunnel
- Data Stored and application processed on “Cloud” for cost-effective solution

- **DoD, DHS & Large Public Safety Agencies**

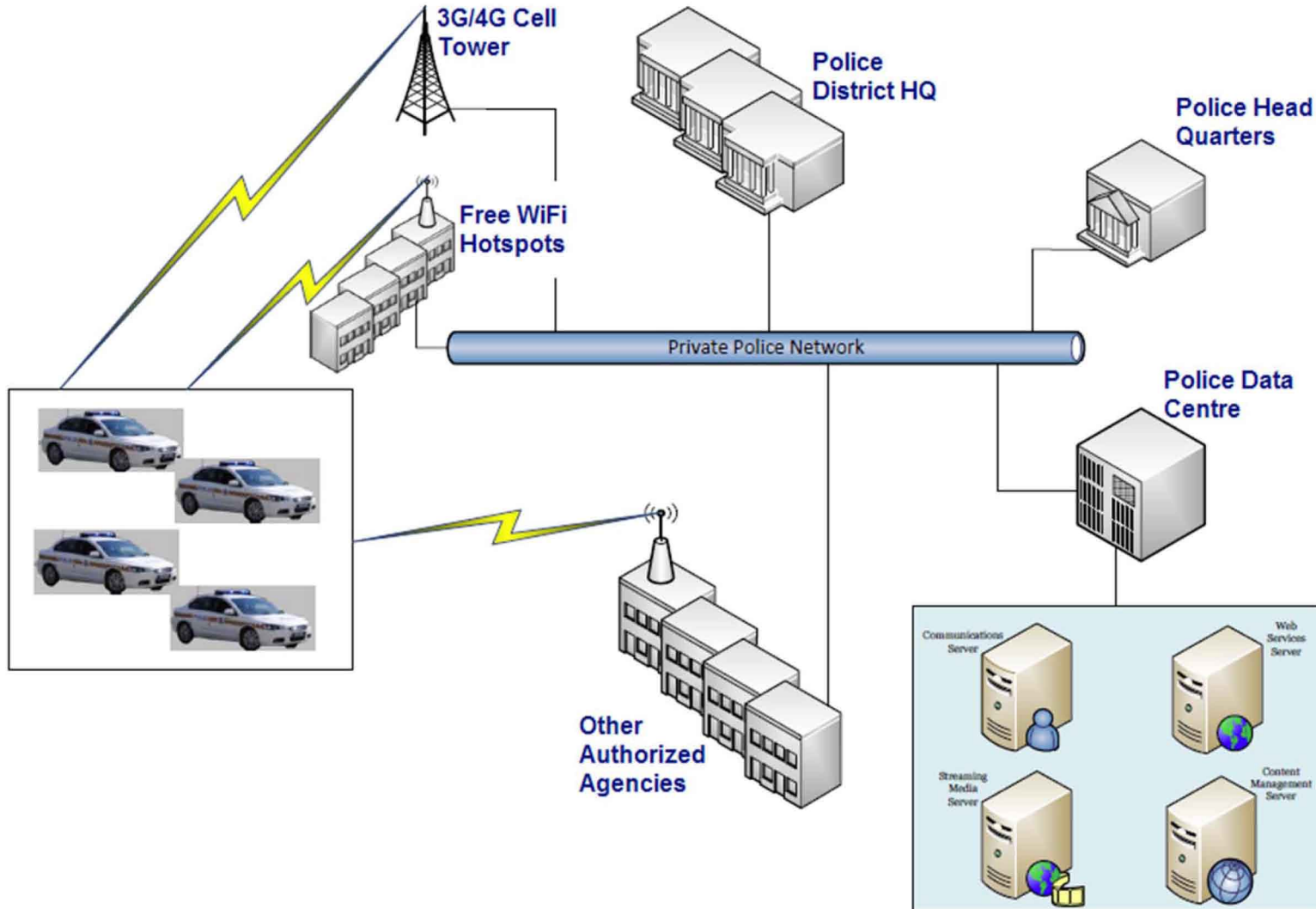
- Live Streaming and Video Uploads over Secure Wireless Mesh FIPS140-2 Network (no public networks utilized)
- Data Stored on Secure Private Data Server

- **Hybrid**

- To meet Customer’s specific Wireless Security and Data Storage requirements

Uses Cellular (3G/4G), WiMax, WiFi

Network Diagram --- In-Vehicle Video System



In-Vehicle Video

- **Multiple HD Cameras:** Front-facing and Rear Seat
- **Mobile personnel camera with mic unit:** Records up to 1,000 ft. from vehicle (line of sight)
- **Transmits Realtime Video:** Video can be viewed live locally and remotely
- **Archival and Retrieval:** Video can be recorded locally and remotely and easily retrieved for post analysis work
- **GPS Data (lat/long and vehicle speed):** Watermarked on every video frame to capture event locations



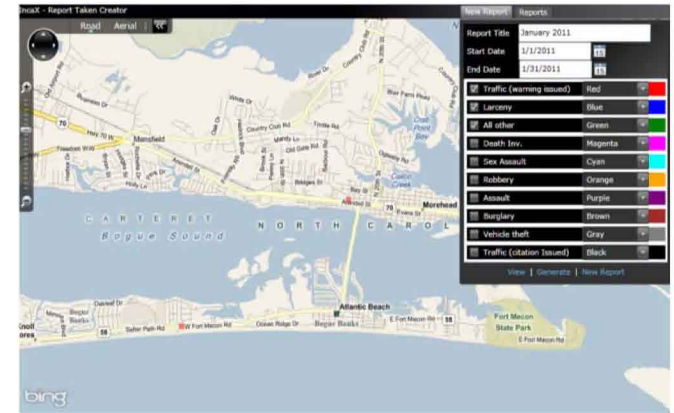
Front Facing Camera



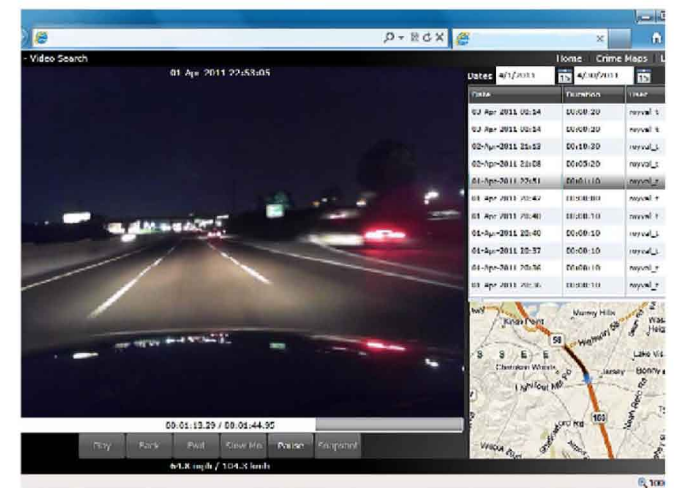
Rear Facing Camera

Use for Evidentiary and Analysis Needs

- Offers a data management tool to facilitate evidence “tagging”
- Allows for incidents to be specifically defined by type and “tagged” for future search, review, report or prosecution
- Provides for a geographical database to be built highlighting crime “hotspots”
- Once defined, police presence can be focused in selected “hotspots”, helping to reduce crime and increase community safety.



On-line Crime Mapping



Live Night Vision

The Equipment – Front Facing Camera

- **High Def 1080i:** 1080p HD sensor for enhanced sharpness and image quality
- **Auto Focus:** Stay in focus at any distance.
- **High Precision Optics:** Glass element wide angle lens
- **True Color Technology:** Automatically delivers bright and colorful video
- **Clear Frame Technology:** Provides smooth, detailed video.



Front Facing Camera

The Equipment – Rear Seat Camera

- Low light -Day/ Night camera with 12 bright IR LED's for clear pictures in total darkness.
- Built in high fidelity microphone to capture clear audio
- Wide Angle lens captures the entire back seat



Rear Seat Camera

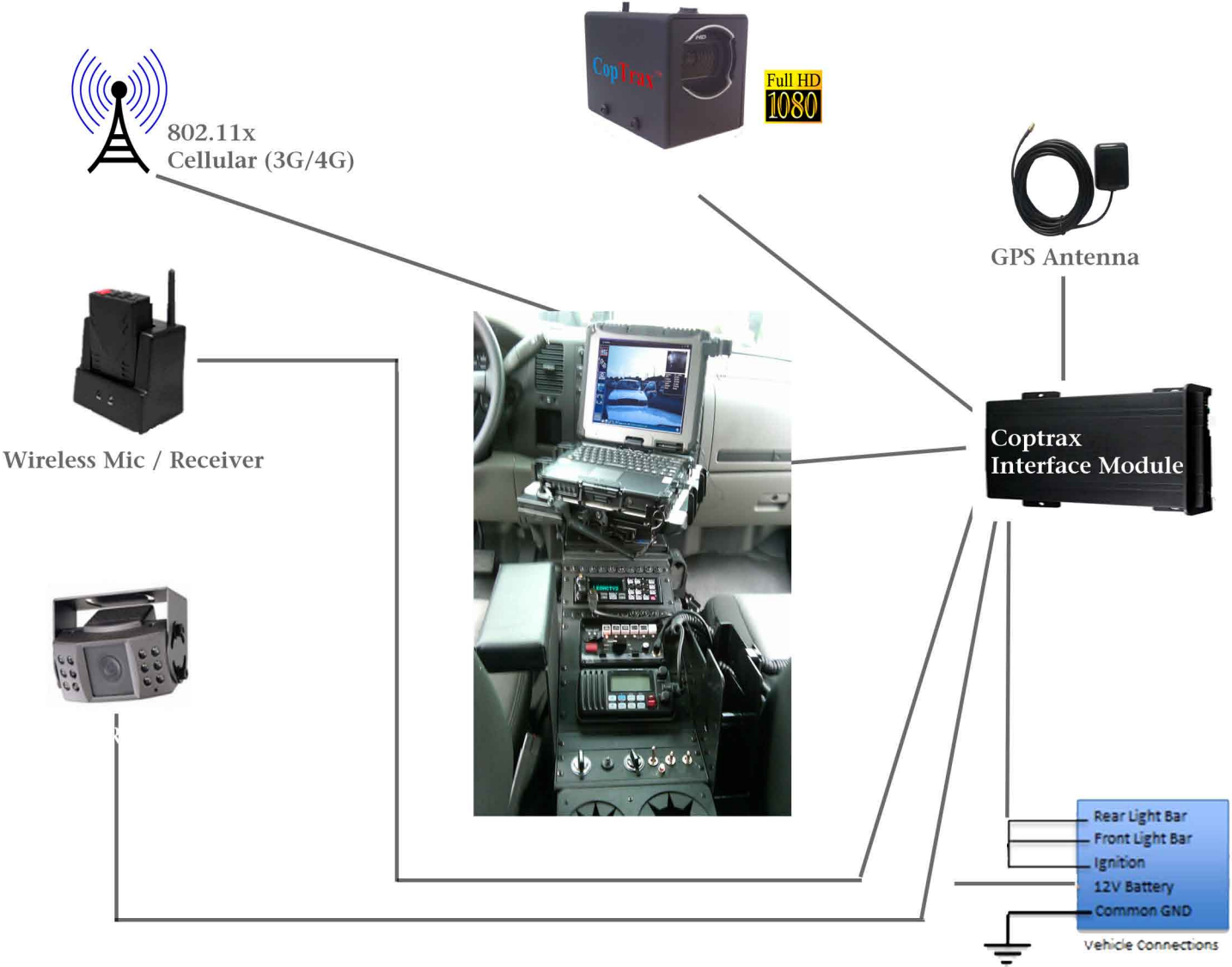
The Equipment - Audio

- Full duplex, DSS (Digital Spread Spectrum) transceivers allow microphone unit to automatically activate whenever system is recording
- Internal, high sensitivity microphone element built in away unit, 100% cordless operation
- Instant synchronization feature allows any microphone unit to work with any base, simultaneously prevents “cross-talk” between systems
- Unique two-way intercom system between base/charger and away unit



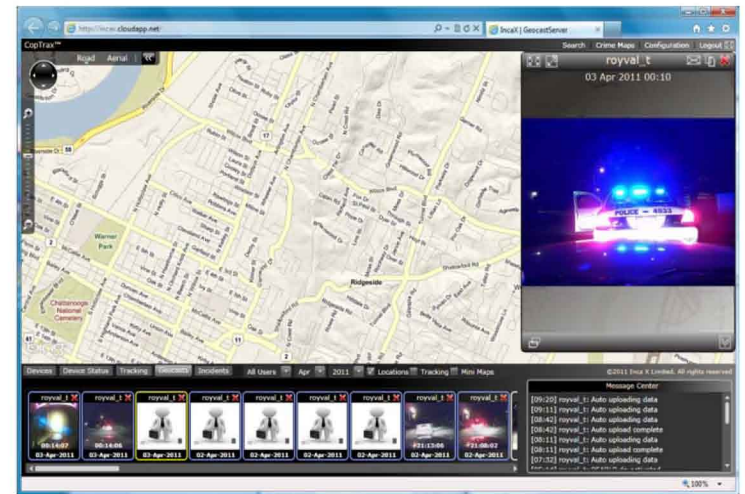
Wireless Audio

The Equipment – Components



Powerful Video Evidence

- Documents all audio and video incidents helping to eliminate false accusations, frivolous law suites and agency liability
- The audio/video evidence increases the likelihood of successful prosecution, reduces the court appearance time for officers and reduces the time spent on written reports
- Video evidence is also a great tool for enhanced training (post incident use of video), and to improve officer performance and professionalism.



Benefits

- Administrators can remotely view through the camera on the officer or vehicle video system to ensure officers' safety and security.
- Knowing where the officers are increases the operational power of the agency/department.
- Recorded video evidence can be immediately located through quick search. The HD resolution provides exceptional video quality and clarity.
- Basic crime statistics captured and patterns available for crime analysis.
- The technology reduces the time officers spend reporting and reviewing incidents allowing them more time in the field.
- Data management tools provide the means to make the best possible use of limited resources, enabling law enforcement agencies to focus their efforts in geographical locations where they are most in demand.
- Productivity is maximized and crime addressed effectively.



CopTrax™

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