

iRecord Bait Car (BC-200)

Bait and Covert Vehicle Surveillance and Tracking System



The Bait Car system (BC-200) is a state-of-the-art vehicle surveillance and tracking system. It is designed and developed specifically for the needs of law enforcement agencies, operating bait vehicle program. The BC-200 is a bait vehicle solution with integrated communication, vehicle status monitoring, audio/video streaming and recording and input/output controls. The BC-200 system can also be used for a variety of covert vehicle surveillance and monitoring applications.

The BC-200 box can be connected with up to 4 analog covert cameras, 2 line-level analog microphones, 5 input sensors and 6 output controls. Each bait vehicle is registered either with a Bait Car Server (BCS), Bait Car Mobile application (iCBaitcar) or WebApp. A state change in any of the input sensors will trigger an activation which gets reported to the associated monitoring and control application. The monitoring officer (dispatcher) can remotely operate output controls, for example enable/disable the ignition, lock/unlock the doors or honk the horn. The BC-200 system also has a Geofencing feature that provides notifications when a vehicle enters or leaves a specified geographical area.

Key Features:

- Integrated communication, recording and maps
- Supports 5 input sensors and 6 output controls
- Supports 4 video and 2 audio analog inputs
- Monitoring & control via web app or mobile app
- No need for monitoring agency
- Activation notification to multiple agents
- Call transfer between multiple agents
- Google and ESRI maps support
- Easy case management for prosecution
- One click playback of an activation (event)
- No other software needed

Live Streaming / Recording

Simultaneous remote monitoring (streaming) and local recording of the audio/video streams. Four analog cameras and two analog microphones are supported. You can view video in single, dual or quad mode. On Mobile App, you can switch among cameras.

Built-in Multi-standard Cellular Modem and GPS

Sierra Wireless Modem module MC-7354/7455 is used for cellular communication and GPS data retrieval. Compatible with all major carriers.

WiFi Connectivity

BC-200 has built-in WiFi for setting up and testing a bait car vehicle. It can be enabled and disabled on demand.

Multiple Quality Streaming / Recording

Video resolutions are chosen by a user. For wide band connection, high resolution MJPEG is recommended, for narrow band connection QVGA resolution should be streamed. Video on the local storage is always recorded in high resolution at full frame rate using H.264 standard.

General Purpose Inputs and Outputs

BC-200 has 5 optically isolated input sensors and 6 optically isolated output controls. Input sensor can be wired to door, trunk, hood, dome light, etc. The output controls can be wired to door, horn, ignition, etc.

Multiple Portable Storage Media Support

Event log, video, audio, graphical locations, street path and speed are recorded on the SD card or on a USB storage media.

Email/SMS and Alarm (Event notification)

Email and SMS alerts can be sent upon low battery and an activation. End Call results in sending a report with Box id, cause of activation and GPS tracking in text format.

Monitor & Control Via BC Server, Mobile and Web Applications

BC-200 has a built-in server which can be connected to a client through a web interface also known as Web App or through a Mobile App (iCBaitcar). Any activation is communicated both to Mobile and Web Apps. Mobile Application can handle 2 activations simultaneously. Mobile Applications can also communicate peer to peer, thereby creating a pseudo mesh network among handling agents.

Google and ESRI Maps Support

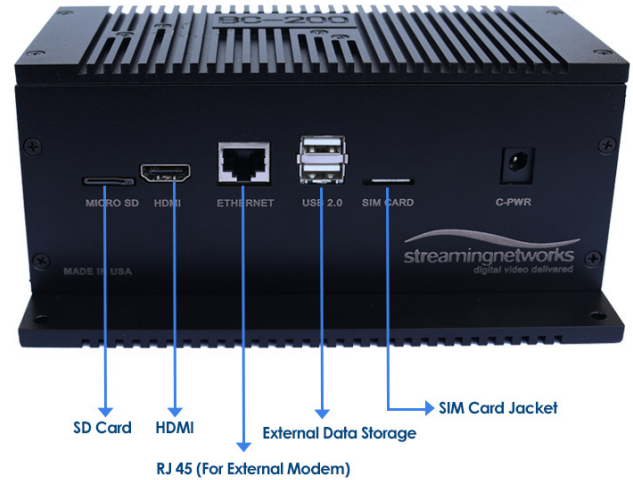
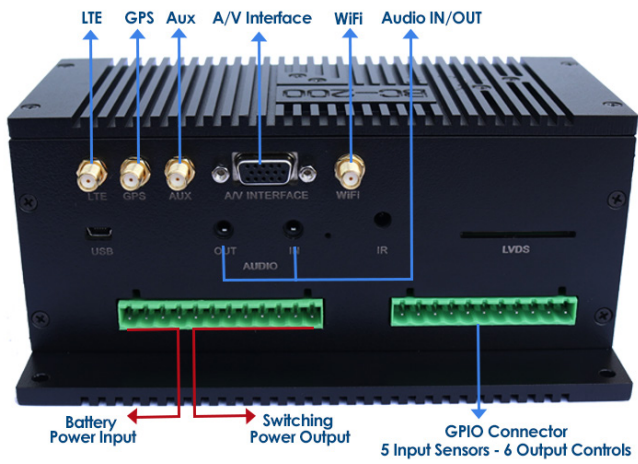
The BC-200 Server supports both Google & ESRI Maps in live and off line mode to display detailed street maps and trajectory of stolen bait vehicle.

Bait Car Server

Bait Car Server runs on a Windows platform in a virtual mode as a service. A dispatcher logs in to the server as a client. An activation is reported to all the clients connected. The client who accepts the call is owner of the call. A call can be transferred to other agents and retrieved back, if necessary. A version of the Server also comes with a Keylock.

Syslog Server

Syslog Sever records the heartbeat for all the bait vehicles regardless of their state. Every 5 minutes, a bait vehicle sends it Battery Voltage, Temperature, Status, Sensor's state changes & Output control changes.



DB15 A/V cable with 4 video inputs and 2 audio inputs

Input Sensors Mapping

Sensor	Pin	Description
Trunk Sensor	Pin 2	Senses trunk open/close state
Door Sensor	Pin 3	Senses door open/close state
User Input 2 Sensor	Pin 6	User defined (motion/pressure sensor)
User Input 1 Sensor	Pin 7	User defined (motion/pressure sensor)
Ignition Sensor	Pin 10	Senses ignition on/off state

Output Controls Mapping

Control	Pin	Description
Horn	Pin 1	To activate the horn
Door Unlock	Pin 4	Unlocks the door
Door Lock	Pin 5	Locks the door
User Output 2	Pin 9	User defined (audible alarm/flasher)
User Output 1	Pin 8	User defined (audible alarm/flasher)
Ignition Disable	Pin 11	Disables/Enables ignition

Bait Car (BC-200) Specifications

Category	Specification	
SOFTWARE	Video encoding	MJPEG, H.264 with frame rate up to 30 fps
	Resolution	Standard Definition (SD): 720x480; 350x240
	Audio encoding	MP3 stereo (32kbps, 8KHz); MP3 mono (16kbps, 8khz)
	Multiplexing	AVI container for video and audio data
	Circular / Linear mode recording	Circular non-stop recording (overwriting the oldest data first), or Linear where recording stops when storage media is full
	Streaming / Recording	Location-free monitoring (live view); Simultaneous streaming and recording
	File Playback / Download	A recorded file can be played back over the internet. The files can also be downloaded or deleted
	Smart search & play	Timestamp-based and event-based search and video playback
	Web server	For user account management
	Vehicle	For vehicle identification settings
HARDWARE	Sim card Jacket	For cellular connectivity
	Video input	Four video analog inputs (15 pin DB connector)
	Audio input	One stereo input (15 pin DB connector), Audio IN/OUT RCA Jack
	Network connectivity	One 100/1000 Base Ethernet port (RJ45); Supports built in WiFi
	Media Storage	SD Card, Two USB 2.0 host ports (Type A connector) for external USB storage devices
	Power input	8 to 14 V DC
	Max. power consumption	Approx. 14 watt excluding cameras

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