



PRODUCT CATALOG

**Covert Audio and GPS
Tracking Solutions for
Law Enforcement Globally**

A Trusted Partner Servicing
Law Enforcement for Over 25 Years

**Specializing in the development
of robust and innovative technologies
for covert technical surveillance.**

**We also offer Iridium tracking solutions
for both Covert and Blue Force Tracking
applications along with Audio/Video
recorder solutions.**

24/7 Technical Support at 1 888 672 8728

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NAUTICS GROUP

Covert Audio and GPS Tracking Solutions for Law Enforcement



At Nautics Group, we develop, engineer, manufacture and integrate technical surveillance products for law enforcement, government, military and intelligence communities. This catalog presents a range of technical surveillance products which have been developed to provide reliable, cutting-edge solutions to some of the challenges faced daily by law enforcement professionals. Beyond these products, Nautics Group also adapts products to suit your needs and offers engineering services which include hardware, firmware, software, mechanical and concealment solutions.

COVERT AUDIO

We provide robust, reliable, quality covert audio recorders and audio over cellular devices that produce crystal clear audio in challenging environments such as public places, moving vehicles, correctional facilities, etc. We use a technology called companding to accomplish this. We deliver the best audio in the industry in a variety of form factors - both packaged and unpackaged - to provide the user maximum flexibility in deployment.

COVERT GPS TRACKING

We provide dependable, rugged, cost effective covert GPS tracking solutions that withstand harsh and difficult environments. Our GPS trackers are designed for ease of use with small form factors to allow installation on a target vehicles to be done with ease and confidence. We have a variety of battery pack options to select from depending on mission length and use the latest technology in our devices along with a selection of software choices depending on the users' requirements.



Developer



Integrator



Manufacturer



Trusted Partner

T6 POSSUM

4G/LTE Real Time Covert GPS Tracking Solution

KEY FEATURES

- 16 Polygon boundaries
- SMS and email notifications on boundary entry and exit
- Selectable GPS power down time
- Supports up to 4 automatic downloads per day
- Supports low battery callouts via email and SMS
- Supports 2 inputs and 2 outputs (relays)
- Can make a boundary a dead zone shutting down the device or stop GPS logging
- Support the triggering of relays when entering or exiting a boundary
- SMS and email notifications on movement (start and stop)
- Internal cell and GPS antenna
- Internal short term back up battery in the event your primary pack batteries deplete
- Included 18650 rechargeable battery pack can also use CR123A batteries with toolless entry
- Optional "C" and "D" size battery packs available for longer mission life

RELIABLE AND ROBUST NEXT GENERATION 4G/LTE GPS TRACKING DEVICE

The T6 Possum is an innovative state of the art 4G LTE Cellular GPS tracking device designed with a modular approach allowing deployment flexibility for our users. The T6 is an all-in-one design for ease of use and installation including rechargeable batteries. The T6 core can be removed and used in a variety of Nautics battery packs as an all-in-one device depending on your mission life requirements.

The T6 has a small hardware core case option, which reduces the overall size and allows external power usage. The device is loaded with features to manage power consumption and uses our intuitive APS software platform for command and control. The T6 also works with third party software integrators.



PB1 CRICKET

RF-GPS Covert Real Time Tracking Solution



EXTREMELY SMALL & THIN GPS TRACKING DEVICE USING RF TECHNOLOGY

The PB1 Cricket technical surveillance kit is your complete end to end solution for package tracking and controlled deliveries.

The PB1 Cricket is the smallest, lightest, and most simple to use GPS tracking solution available and satisfies many operational requirements.

The device reports via RF the GPS information in real time to the small handheld receiver. The receiver pairs via Bluetooth to a user-friendly app on your iOS device, overlaid on Google Maps. The device can be setup in a variety of different power and tracking modes to suit your application and delivers alerts to your smart phone based on break wire and/or motion.

KEY FEATURES

- Call out on break wire violation
- Optional UHF RDF receiver available to DF on RF pulse in the event GPS is lost or blocked
- Multiple power modes available to select from (HD, ECO, and EXT)
- One receiver supports up to 5 PB1 Crickets that you can see on the map at once
- Full 2 way command and control via RF link
- Integrated GPS
- Can track up to 29 miles LoS, terrain dependent and RF antenna selection
- Broadcast feature allows live sharing of GPS data with other team members
- Easy to navigate SET mode to enable break wire or motion callout plus timer delay
- Live updates on GPS and RF status plus distance to target and speed



L4G KOALA

4G/LTE Live Audio with Real Time GPS Tracking

KEY FEATURES

- 4G/LTE live listen, stereo recording, IP uploading, and live tracking capabilities used together or as separate functions
- Stereo left and right filters in APS software or selectable in device at setup
- Audio stored on SD card with auto rollover option to continue recording
- Fast audio data uploads
- Event driven recording, VOX, tracking and alerts
- 16 Polygon boundaries
- Anti-sweep detection managed by activating the modem to OFF when not moving
- Can make a boundary a dead zone shutting down the device or stop GPS logging
- External cell and GPS antenna
- Input / Output relay trigger support from Lemo version of L4G is IP67 rated
- L4G available in Lemo or Harwin connector configuration



SUPERIOR LIVE LISTENING SOLUTION DELIVERED ON A 4G/LTE PLATFORM

The L4G Koala is the next generation of Nautics' renowned and reliable L2 live listening series. Built on all new technology platform using previously proven features, it delivers faster robust processing. The L4G offers a stereo live listening phone call or audio streaming.

It features external 4G/LTE and GPS antennas to allow for deeper installs. The audio settings, power management, GPS configuration, movement & voltage sensors, reporting rate, content & scheduling features are fully programmable over the air. The L4G can be used independently or managed using APS web audio/tracking server software using a PC or mobile phone. Third party software integrators are also supported.

A5 DINGO

Superior Quality Covert Mono/Stereo Digital Audio Recorders



HIGH PERFORMANCE MONO AUDIO RECORDER

Nautics' series of recorders delivers renowned and reliable recording in the most difficult circumstances using our companding technology. Companding pulls the voice forward upon playback producing a much clearer voice recording. Used in theatre, noisy and very quiet environments, worn as a concealment, or deployed in a static location; the recorders automatically capture the best quality voice audio possible.

Depending on the recorder model, mono Dingo or mono/stereo Bilby, the high quality recorders can be user configured using our Whisper2 software. Authenticate software is also shipped with the kit allowing graphical in court playback.

The recorders come in a variety of different variants including bare board or cased, or in one of our standard concealments. In all situations Nautics' recorders continue to perform providing superior audio on playback.

KEY FEATURES

- High performance mono audio recorder
- Timer or VOX enabled recording
- Smallest and most power frugal Nautics recorder
- Kit includes high speed USB download cable and playback software
- Excellent for size critical concealment applications



A2/A4 BILBY

Superior Quality Covert Mono/Stereo Digital Audio Recorders



KEY FEATURES

A2 BILBY

- Superior quality mono or stereo digital audio recorder
- Timer or VOX enabled recording
- Kit includes high speed USB download cable and playback software
- Optional battery caddy for all-in-one design and recorder deployment
- Optional larger memory sizes and metal housing

A4F BILBY

- Smaller format, superior quality mono/stereo recorder
- Flexible durable material casing
- Fast 1 hour onboard rechargeable battery
- Remote switch ON/OFF activation
- Kit includes high speed USB download cable and playback software

WHAT IS AUDIO COMPANDING?

In telecommunication and signal processing, companding is a method of reducing detrimental effects on a channel with limited dynamic range. The name is an interpretation of the words compressing and expanding. For audio signals, the amplitude of weak signals is raised and the amplitude of strong signals is decreased, thereby altering the dynamic range of the signals.

Nautics audio companding essentially equalizes the recorded sound to benefit the listener in challenging environments. This prevents over modulation of a signal and helps bring the human voice frequencies over the top of other loud interfering noises such as wind, machinery, gunfire, and even radio & TV. Nautics companding technology works to lower unwanted background noise while allowing you to more accurately record the subjects of interest.

CONCEALMENTS

Off-the-shelf and Custom Solutions
for Law Enforcement



USB
Car Charger

SUPPLYING CUSTOM HIDES TO LAW ENFORCEMENT

Nautics Group has developed and
supplied custom hides to
law enforcement for decades.

Contact Nautics Group to discuss any
special requirements.

A5 Dingo Recorder



Buck
Knife



Rechargeable
Power Bank

A5 Dingo Recorder control via RF Fob

C2 Wallaby Listening &
A5 Dingo Recorder
control via RF Fob



Bluetooth
Speaker



OBD

A5 Dingo Recorder
(Optional RF Fob)

C2 WALLABY

GSM Cellular Wire



KEY FEATURES

- C2 will operate on GSM networks worldwide
- Dual function quad-band modem
- Multiple live listening for outstanding Officer safety
- Full conference calling on GSM network (up to 5)
- One-touch fast start up - Simple to use - No software
- High quality Nautics Group audio
- C2d has internal rechargeable battery (3 hours operating time on one charge)
- PIN protected inbound calling
- Dingo recorder on board 16GB max (C2d, C2pd)
- Key fob remote commanding (C2d, C2pd) + Panic alarm
- Integrated battery (C2, C2d)
- Available in cased or concealment format

PEACE-OF-MIND FOR OFFICER AND UNDERCOVER SAFETY

The C2 Wallaby is available in an all-in-one enclosure or prepared as a concealment and body-worn deployment. The C2 provides live high quality audio for up to five parties simultaneously. Officer safety, simple concealment and Nautics Group quality over the air makes the C2 the clear choice for covert live listening.

C2d includes an integrated high quality Dingo recorder for storing the evidence and a 3 function key fob provides remote command over the power and recording functions and can initiate a call to a pre-set number for live audio or panic alarm.

JOEY GSM

Audio Intercept System



Nautics Group is proud to have TTI as a technology partner.



A C2 WALLABY AND JOEY INTEGRATED INTO ONE MODULAR PACKAGE

The Joey-GSM is two products in one, a Joey RF module and a C2 Wallaby that can back each other up. When the C2 Wallaby is out of cell range, the Joey RF module can be used, and when the Joey-GSM is in cellular range, the C2 Wallaby can be used.

The Joey-GSM VHF-TX module from TTI is a 1 channel, 1/2 watt VHF-FM synthesized voice transmitter specifically designed for law enforcement. When physically paired to the Nautics C2 Wallaby covert GSM unit, it creates one device that transmits long range over a GSM cellular network as well as locally via VHF surveillance frequencies for officer safety. The Joey GSM unit is also supplied with a full enclosed stand-alone case for VHF only operation.

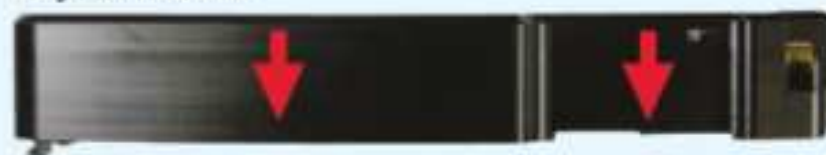
KEY FEATURES

- Now with cell phone & RF module redundancy
- Internal rechargeable battery now offering 3 hours of continuous monitoring & recording
- Fast start with easy on/off switch

FOR NORTH AMERICAN JOEY USERS

Ask your supplier about the JOEY-GSM Audio Intercept System. A C2 Wallaby and Joey integrated into one modular package providing cellular and a VHF transmitter for direct RF use.

Joey-GSM Module



Wallaby C2 Module

T5 WOMBAT

Miniature GPS Data Logger with Remote Download



KEY FEATURES

- Displays downloaded GPS points on Open Street Maps in Android phone
- 4 independent Timer Triggers using a start date and time along with a length of time the trigger should be active
- Voltage trigger activated by monitoring the T5 input voltage
- 4 geofence triggers
- Motion trigger
- Closed contact input trigger for waypoint marking
- Triggers can enable the following actions: logging, relay output, Bluetooth, battery charger
- Zero self-originating RF transmission when deployed
- Accurate and continuous low energy position logging
- Logs 170,000 plus time/date stamped points
- Wide voltage range
- Confirms the quality of position fix during installation
- KML play back of previously downloaded logs via Google Earth

AN EXTREMELY SMALL AND CONCEALABLE DATA LOGGER

The T5 Wombat is a low power GPS Logger suitable for long term monitoring of targets for tracking and generating movement reports. The device includes a Low Power Bluetooth link for command and control.

Operation of the T5 Wombat GPS Logger can be explained simply as a device that has triggers that perform actions. Each trigger can be programmed to perform single or multiple actions. Triggers include 4 timers, voltage, 4 geofences, motion, and a closed contact input.

Long- or short-term intelligence gathering of selected targets or assets both on a hostile or friendly asset with complete command and control via a smartphone app. The T5 gives outstanding low energy performance and is the ideal surveillance tool for collecting a pattern of life on a target and marking points of interest.

APS SOFTWARE

GPS Tracking and Audio Management Software



APS (Automated Processing System) is a central repository for the capture, storage and management of GPS track data and recorded audio evidence.

APS processes and manages the data into a single, easy to use solution, accessible from any web enabled device: PC, Tablet or Smart Phone.

APS offers a simple, reliable, and easy to learn tool to get started with GPS tracking. Permission levels let you control who sees what in your organization for security and protection purposes.

KEY FEATURES

SYSTEM

- Export data and video replay for court presentation
- Single click to view data for the past 24hr, 48hr, and 7 day periods
- Manages the notifications from the units (boundaries, motion, low battery, etc.) allowing more flexibility
- Data is stored on the server for as long as the client needs
- Add new users as needed for no additional cost
- Quickly identifies a devices' last location
- Comprehensive logging for audit management
- Common configuration interface for all devices

TRACKING

- Supports tracking multiple targets simultaneously
- Compare multiple historical tracks to identify patterns and meetings
- Replay and analyze historical tracks, easily select the time frame of interest
- Multiple mapping options included with global mapping coverage from OSM, Google and other providers

AUDIO

- Stream stored audio to authorized users
- Multiple users can listen and comment simultaneously
- Built in advanced playback options including volume control, left and right channel isolation for stereo recordings and audio equalizer to enhance or reduce frequencies

SURVEILLANCE SOFTWARE

WHISPER2

Audio Control Software

The Whisper2 software package is used to configure and download audio recordings from the **Bilby** and **Dingo** range of Nautics recorders and specialty recording devices such as the **Joey2**.

The program also offers file conversion, playback facilities and limited audio enhancement, includes the level settings for the new VOX feature and recording timers.

AUTHENTICATE

Get Tamper-proof and Reliable Evidence

The Authenticate software package is used to authenticate the information contained in downloaded *.IX2 audio files created from covert solid state surveillance recorders.

Unlike normal audio files which can be modified and resaved, these audio files have inherent features built in to guard against tampering. To provide maximum data integrity, the *.IX2 format includes a proprietary structure which intertwines core recording information into a packet format. This means that each of the packets "knows" what recording it is part of and which recorder made it.

AVAILABLE WITH

A4F Bilby



A2 Bilby



A5 Dingo





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