

# COVERT OPERATIONS IN THE ELECTROMAGNETIC SPECTRUM. CAN YOU SPOT THE RADIO DIRECTION FINDING SYSTEM?

**DESCRIPTION:** Watch Cap is a completely covert, helmet mounted, Radio Direction Finding (RDF) system designed with the concept of distributed operations in mind. The system is fully integrated into the helmet cover meaning no modifications are required to the helmet itself. Command and Control (C2) of the system is provided to the operator via an Android application and can be displayed on an Android phone or tablet. System C2 can be passed to a larger distributed network by direct connection to a tactical network device via USB or TCP/IP.

**VALUE TO WARFIGHTER:** Watch Cap represents the first and only completely covert Electronic Warfare Support (ES) device capable providing signal detection and directional Lines of Bearing at the lowest possible echelon.

## KEY SYSTEM FEATURES:

**Proven technology:** Watch Cap's RDF technology is based on RRT's THiEF system. THiEF is a TRL-8 technology that has been procured by multiple services.

**Heads-Up Display (HUD):** Watch Cap is available with an optional HUD using VUZIX Blade® smart glasses. The HUD capability allows warfighters to maintain situational awareness within the formation while simultaneously receiving ES data.

**Covert:** Watch Cap is the first tactically viable, body-worn RDF system that is completely covert allowing users to increase survivability by lowering their visual profile and mask unit capabilities by blending in with other members of the team.

RADIO  
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TECHNOLOGIES, INC



# WATCHCAP



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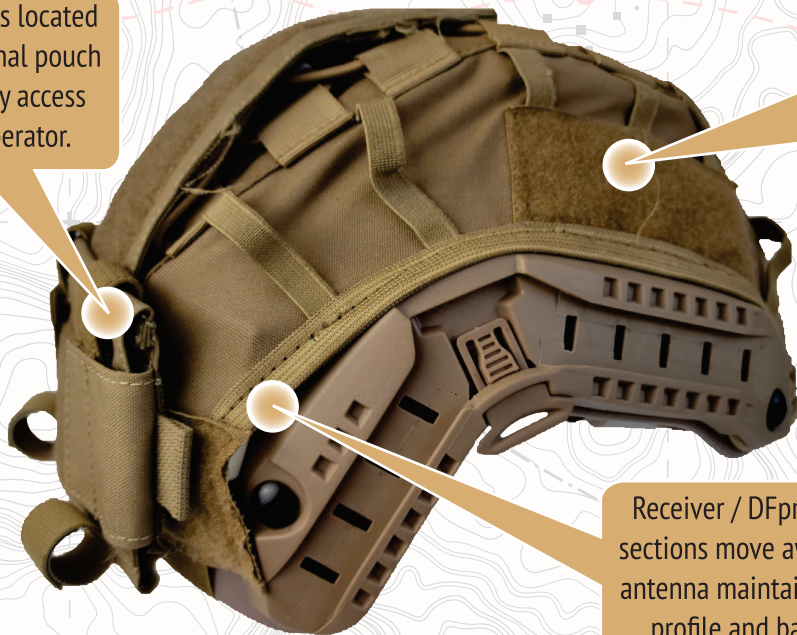
Antenna section located on top of helmet. Separated from other components to maintain low profile.

Communication antenna hidden along side of helmet for better propagation and receiver isolation.



Batteries located in external pouch for easy access by operator.

All components housed in the helmet cover ensuring no changes to helmet's ballistic/bump protection.



Receiver / DFprocessor sections move away from antenna maintaining low profile and balance.

## SPECIFICATIONS

Size: helmet cover

Weight: 8oz

Power: 600mA @ 3.3VDC

Frequency Range:

- DF: 20 MHz – 1.8 GHz

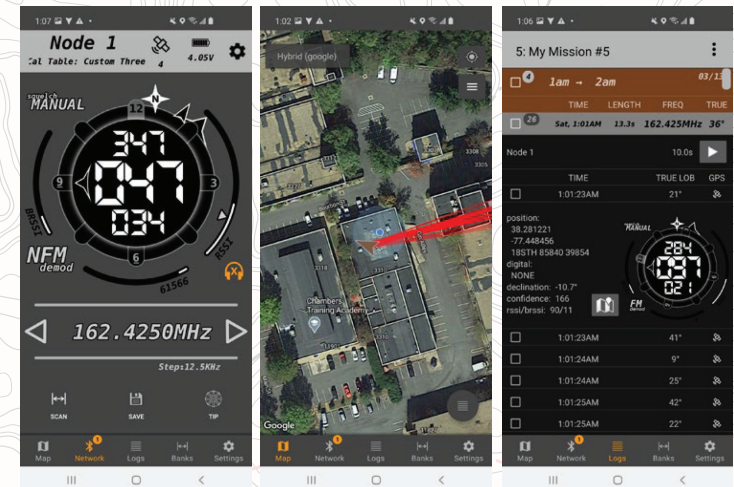
- Receive: 20 MHz – 3 GHz

Command and Control:

- Direct: RRT Application or GOTS (ATAK Dev Required)

- Distributed: RRT SignalTrap or GOTS software (Dev Required)

Simulated screen images for mobile devices.



## RADIO RECONNAISSANCE TECHNOLOGIES, INC

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RRT Inc. is ISO 9001:2015 certified

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