



# ShadowTrak

## Passive Phone Locator



# Introduction

A discreet, compact device that leverages Machine Learning technology to silently and effectively track and pinpoint cell phones within a 2-kilometer radius.

It works on all phones, networks, and technologies, **including 5G SA!**

It is a versatile tool that can be deployed in various scenarios, whether in a vehicle, on a motorbike, or by a pedestrian. Its functionality extends to both indoor and outdoor environments, and it is designed for ease of use, even by individuals without specialized training.



# Passive interception Ahead of the Game

Setting itself apart from existing solutions in the market, this device boasts a distinctive operational capability: the ability to **passively and covertly locate a specific phone** without causing any disruptions to the targeted phones or the cellular network.

Its operations are carried out discreetly, rendering it virtually undetectable and untraceable.



# CONOPS

## Concept of Operation

- Deploy the main system in a vehicle
- Perform network scan
- Enter the phone number of the POI
- Start driving. The system will create a breadcrumbs heatmap while trying to predict and draw a vector toward the target
- Continue driving to narrow down the search and/or switch to the pouch system to pin-point the target



# Features

- Passive network scanning and monitoring (downlink)
- Passive phone scanning and monitoring (uplink)
- Works with phone number (MSISDN)
- Location
  - Create breadcrumbs heat-map
  - Create bearing estimation toward the target
- Tracking
  - The vehicle system locks and tracks the target using 4 antennas.
  - The pouch tracker syncs with the system, and then track the target using its built-in directional antenna



# Product Attributes 1/2

- ALL technologies – supporting all technologies, including 5G!
- Undetectable – fully passive (not transmitting)
- Autonomous – doesn't require the cooperation of service provider\ IMSI catcher
- Untraceable – doesn't connect to any cloud server
- Tracking phone numbers – according to phone number only, no IMSI required.
- User friendly – Can even be used by individuals without specialized training



# Product Attributes 2/2

- Simple deployment – can be installed in a car within 5 min
- Various deployments – Vehicle \Motorbike\Backpack \Pouch
- Various scenarios – Indoor\ Outdoor
- Covert – All antennas can be installed in the vehicle or on the roof basket
- SWaP – Small size, light, and low power consumption
- User friendly – Can even be used by individuals without specialized training



# Technologies & Bands Tailored per Region/Country

- ✓ 2G : GSM 900/1800
- ✓ 3G : WCDMA 900/2100
- ✓ 4G : LTE-FDD : B1/B3/B5/B8
- ✓ 4G : LTE-TDD : B34/B38/B39/B40/B41
- ✓ 5G-NSA : B40







# Specifications

- Input –MSISDN
- Range –2Km (LoS)
- Accuracy –~1m
- Team mode Interconnection – 433Mhz data-link
- Battery – Internal 3h





**Thank You**