

Dominator I

GSM Interceptor

A 5.1



Dominate the world

Dominator I - GSM Interception System



- Real time interception of GSM traffic
- Supports both A5.1 and A5.2 deciphering
- Total transparent and undetectable by the operator and the subscriber
- Supports for all frequency bands
- User-friendly operation

The ***Dominator I*** is designed for off-air interception for cellular communication in GSM networks. It provides the interception of up to 4 simultaneously users that are operating close to the system. The system intercepts and records all outgoing and incoming calls, voice and SMS, to and from the target.

The ***Dominator I*** is using an active system that captures the IMSI and IMEI of the targets but as it is an active system it is proved fully non detectable modes of operation.

The ***Dominator I*** operates in Random mode as well as in Target mode. It can filter and record only target operation.

Advantages:

- ✓ Totally undetectable by the operator and by the user
- ✓ Intercepts and records all outgoing and incoming calls, voice and SMS
- ✓ All target calls are registered in the Mobile Operator billing systems
- ✓ Pass the caller ID to and from the target mobile phone.
- ✓ All traffic (voice and data) is fully encrypted in the air.
- ✓ Easy change of Mobile Operator by changing a parameter only
- ✓ Correlation tools to detect targets

- ✓ **Optional** long distance system up to 2Km.
- ✓ **Optional** interception of 3G cell phones
- ✓ **Optional** Dominator DF subsystem -direction finder- to detect target location



Dominator I Overview

The Dominator I Purpose

- Detecting GSM-standard mobile stations, located within the zone controlled by the System,
- Registering traffic (incoming and outgoing communications) from these mobile stations,
- Manipulating the state of mobile stations, which have been registered by the system.

The System operates in stealth mode in GSM networks, which use various encoding types (A5.2, A5.1)

The Dominator I system supports

- Defining mobile station key parameters - IMSI, IMEI, Kc, etc, which are required for System operation;
- Full control over mobile station incoming and outgoing traffic within the System's reach zone;
- Manipulating the state of mobile stations, including the possibility of identifying the location of a mobile station (target) by activating its transmitter.

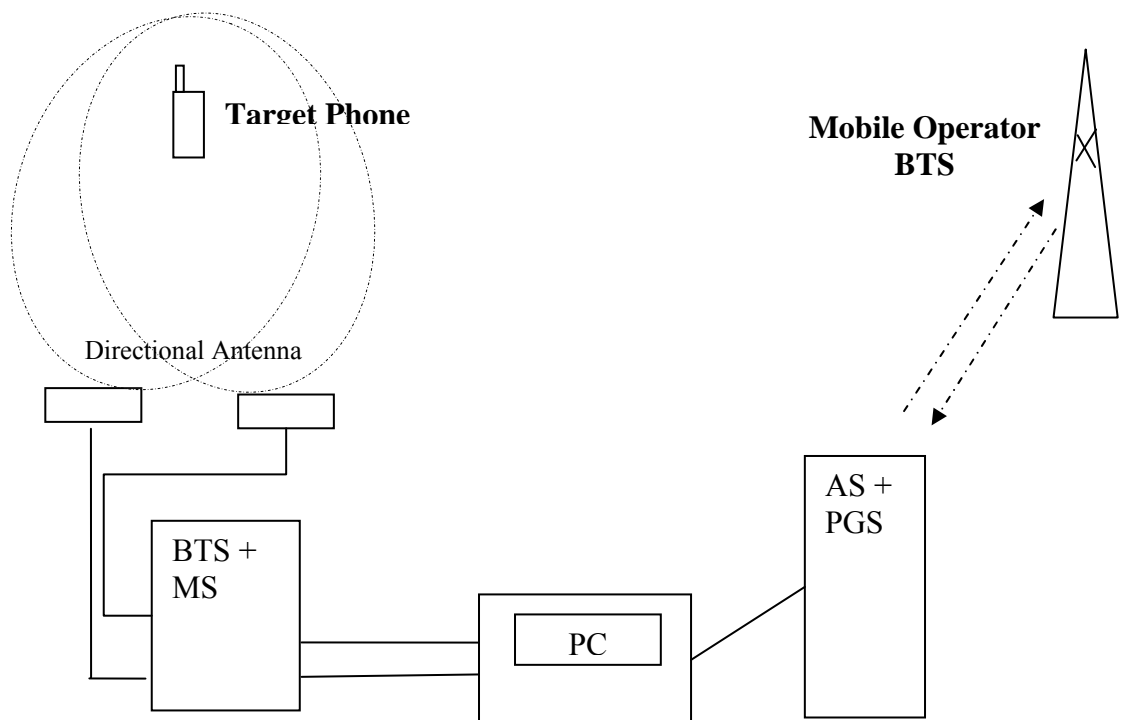
The Dominator I operating modes

- IMSI and IMEI catching. (Secretly obtaining mobile station main identification parameters (IMSI, IMEI, TMSI, Kc etc).
- Random mode Interception - Capture and record all incoming and outgoing traffic within the System's coverage zone;
- Tracking mode Interception – Targets
- “Local network” - Restoring the radio coverage zone in critical situations (natural or technical disasters), Hostage situations - search, detection and possible contact with the GSM mobile station owners in disaster areas, accidents
- Detection of the location of a given mobile station, located within the System's coverage zone.
- The “Target correlation” mode. - searching for subscriber identification information (IMSI, IMEI and their combinations).

The System structure

The following units are included with the System:

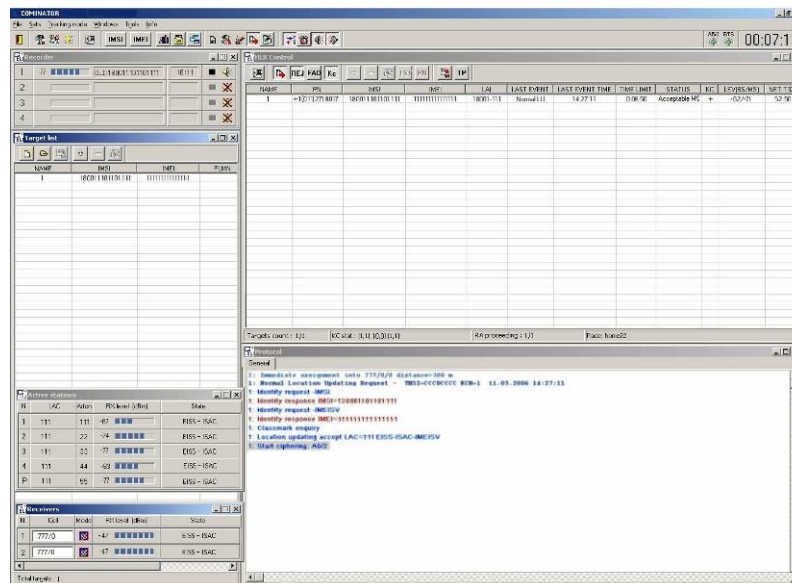
- System controller box no 1 includes:
 - A base station (BTS), tuned to one of the GSM-900 or GSM-1800 frequency bands (with preliminary agreement);
 - A base station transmitting channel amplifier (AMP)
 - Two channels of mobile stations (MS) for Kc calculation.
- System controller box no 2 includes:
 - A complete set of 4 active stations (AS).
 - A paging channel station (PGS) 1 unit;
- A notebook with the corresponding software (PC);
- A set of power supply units (PS1-PS3) (3 units);
- A directional antenna (A1) for the GSM frequency band;
- A directional antenna (A2) for the GSM frequency band;
- A set of connection cables.



The System GUI

The *Dominator I* Graphic User Interface (GUI) is composed of main window and some sub programs that enables the process of the information that was captured during the interception process:

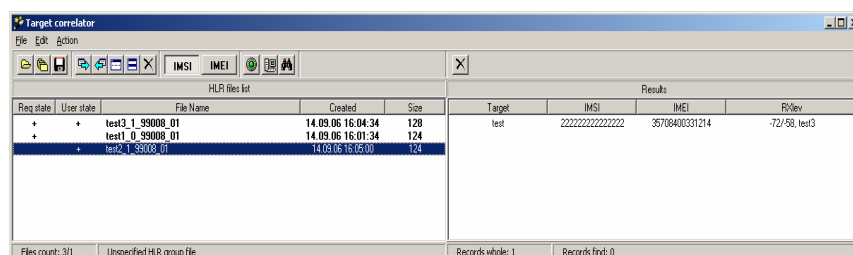
The main windows enable the full and easy control of the field interception mission. It provides an easy setup of the system parameters and a full automatic capture and presentation of the communication protocols of the subscribers.



The *Dominator I* main windows

The main window presents the status of the 4 channels receivers and voice recorders. Via the main windows the system operator manages the target list parameters and controls the modes of operations.

The target correlation window enables to isolate the target IMSI/IMEI parameters by correlating of subscribers lists with or without the target presence. The targets correlation window enables also to detect the replacing of SIM cards in mobile handsets by correlating the IMSI and IMEI data.





Dominator I - DF option

The ***Dominator DF*** adds both a direction finding and a tracking vehicle GPS location capability to existing ***Dominator I*** basic GSM phone interception systems. The whole system fits into a single case and can be deployed on any vehicle in less than ten minutes.

Extremes of performance of mobile tracking have always required sophisticated equipment and highly skilled operators. The ***Dominator DF*** offers simplicity of deployment and use whilst maintaining the range and sensitivity of more complex and expensive equipment. The ***Dominator DF*** has been designed to offer the simplest dual band GSM cellular phone location solution available on the market today.

Features

- Installed and ready to use in under ten minutes
- Single page controller display shows all tracking information
- Audible tone varies according to range for ease of use
- Digital signal processing removes need for operator fine tuning and improves sensitivity
- Data interface allows the GPS position of the tracking vehicle and the direction to the target to be displayed by Director mapping software.
- Suitable for mobile deployment & operation
- Audible tone changes to indicate GSM lock.

The ***Dominator DF*** add-on option comprises three major components:

- Antenna pod
- Receiver
- Hand held controller

The Antenna Pod

The antenna pod receives the incoming signal and is connected by two screened cables to the receiver. If the system is deployed on a car the pod is fixed to the roof by magnets and/or roof straps to each corner. The use of roof straps is recommended under all conditions.

The Receiver

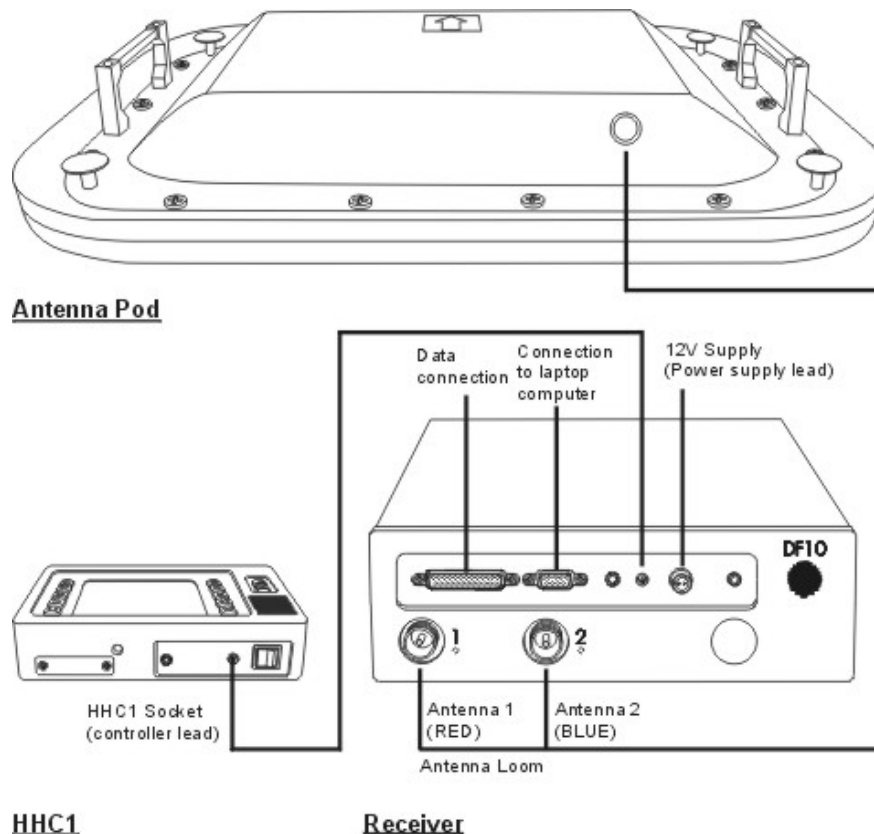
The receiver detects the cellphone signals, automatically synchronises to the GSM signal and calculates the bearing to the selected phone. Tracking data is displayed on the hand held display (HHC1) which is also used to select the optimum average period.

The Hand Held Controller

HHC1 displays the signal bearing on a polar display with a resolution of ± 1 degrees. The signal strength is displayed on a bar graph and the signal quality is indicated by the length of the direction pointer.

Operation

Once deployed the field operator needs only one display screen to see all the data required to locate and follow a target. The direction to target is displayed as a compass pointer and the relative signal strength is shown as a bar graph and numerically. The audio tone increases in frequency as DF10D gets closer to the target giving a clear warning of a close encounter.





Specifications

Number of channels	4 full duplex
Interception direction	Incoming and outgoing calls
Frequency bands	GSM bands
Operation modes	IMSI/IMEI catching Random/Target interception
Interception method	Fully transparent active
Tones interception	DTMF
Real time decipher	A5.1 and A5.2
Voice and data recording	80 Gbyte hard disk
Target filter	IMSI, TMSI, IMEI
Messages interception	SMS
Power	up to 10 Watts, Variable
Long Distance module (optional)	up to 2Km
Power supply	115/230V AC 47 Hz to 63 Hz or 12V DC
Power Consumption	AS - 72watts (14v -16v 3a) MS+BT -120watts (24-27v 3a) LPT - 72watts (14-16v 3a)
Unit 1 Dimensions (W x H x D)	290 x 260 x 80 mm
Unit 2 Dimensions (W x H x D)	290 x 280 x 95 mm
Total Weight (2 units)	5.6Kg