

MULTI-STANDARD MULTI-CHANNELED PASSIVE RECEIVER AND TRIANGULATION FOR CELLULAR PHONES: TECHNICAL FEATURES

Analogical and digital bandwork:

- 850 MHz.
- 900 MHz.
- 1800 MHz.
- 1900 MHz.

Standards supported by the system:

- IS-553 (AMPS).
- IS-91 (AMPS AND N-AMPS).
- IS-54 (AMPS AND D-AMPS).
- IS-136 (AMPS AND TDMA or also commonly denominated as PCS).
- Skill to GSM.

Quantity of cells of simultaneous reception:

- A 4 cells (8 channels) Master System. (that system shall be gradually increased to a system with a higher surveillance power, for cellular surveillance functions or assignment of resources for enviromental surveillance or phone lines of fixed net)
- Two Slaves Systems of a cell (two channels) each one. (Each system can be increased in modular way if new adaptations of technology are needed, or increasing of enviroment surveillance functions or network telephone lines)
- The systems allow the increasing of the capacity for capture cellular targets, and the possibility of adding channels, to be used in cellular surveillance functions or allow the allocation of resources to apply them to electronic surveillance of enviroment microphony or network telephone lines.
- Each cell shall contain 2 receivers which pick up the TX and RX of the communications.

Specified parameters:

- Total registrations of mobiles (MIN) over analysing cell.
- Channels and Time-Slot assigned.
- Dialed numbers.
- Identification of incoming calls to the objective (Caller ID).
- Incoming and Outgoing messages (Short Message Service).
- Hand-Off
- Entirety of Control Channels with their own sign intensity.
- Sign intensity in real time of the voice channels.

Audio Handling:

- Direct reproduction in real time.
- Pre-recorded reproduction of registered communications
- Total historical register of phone calls by MIN, Time, Date, Dialing, etc.
- File saving in compressed format.
- Encrypted file saving.

Kind of Capture:

- Power on by user password
- At random
- By MIN
- By 4 last MIN numbers
- By dialed number
- By MIN list
- By list of dialed numbers
- By near carrier

Special tools:

- Conversion Table from MIN to dialable number (TDMA, AMPS, N-AMPS)
- Search, selection and register program of common voice analog/digital channels by areas.
- Search, selection and register program of analog/digital control channels by areas or assigned areas.
- Management, listening and recording of telephone and non-telephone hidden microphones, digital and analog.
- Individual Estimating System for directional locating of cellular transmissions
- Cell phones locating system by transmission triangulation with GPS support and cartography. (Basic Equipment: a 2 channels -at least- Master system and two slave systems consisting of 2 channels each. This slave equipments are related to the Master equipment through a RF link or a cell phone designed by the client)
- The acquired system has a portable or fixed site control centre, according to the client request.
- The system has the capacity of being controlled through computer nets or microwaves up to 10 Km approximately in line of view from a remote equipment getting in this way the information obtained without necessity of fixed operators in the operative environment.