

Covert Surveillance System

Overview

- What is spread spectrum?
- What differentiates the ATS System?
- General characteristics
- Characteristics, capabilities, use and maintenance
 - Model 1250 Transmitter and ancillary equipment
 - Model 1245 Monitor System
 - Model 1225 Hand Held Transmitter
- Operational Scenarios
- General care, maintenance and storage
- Other devices and equipment
- Questions and answers

What is Spread Spectrum?

- Generally a wideband signal
- Bandwidth much wider than message
- Low Probability of Interception (LPI)
- Low Probability of Detection (LPD)

What Differentiates the ATS System?

- Bandwidth and chip rate is much greater
 - virtually non-detectable
- Nearly instantaneous synchronization
 - No lost words or syllables
- More robust performance in multi-path environment i.e buildings, city, etc.

- High quality audio
- Rated power output over life of battery
 - No sloping power output
 - No clipping

General Characteristics

- Voice privacy
 - Digital system
- High quality audio - 56 Kbps CVSD
- Flat audio response
- No special batteries
- Terminated inputs
- All equipment compatible
- Relatively inexpensive
- Versatile
 - Data is scrambled

Characteristics of the Model 1250 Transmitter

- Single transmitter - multiple carriers with integral antenna
- Standard batteries
- Internal microphone
- Capability to use externals
 - Microphone
 - On/Off switch
 - Antenna
 - Power converters
- Transmits a battery low bit
- Does not heat up

Model 1250 Installation Considerations

- Internal microphone is very sensitive
 - Careful of wind conditions
 - Careful of clothing
- External connectors should slide on easily
- Face antenna away from body

- Insure proper selection of code and channel
- Always use fresh batteries
 - Avoid cheap batteries
- Insert battery pack in proper direction
- Turn unit off while inserting/removing battery pack
- Model 1245 Monitor System
 - Self contained unit can be operated in any position with case closed
 - AC, DC, internal batteries
 - Unit will determine operating power
 - Supports simultaneous charging and operation
 - Internal batteries support in excess of 8 hours receiving and recording
 - Recorder operates from Model 1245 power
 - Manual or automatic control
 - Three head Marantz - common to LEA's
 - Built in antenna's - can use external for "better" reception
 - Internal speaker
 - Can be turned off
 - Headphone output
 - Line outputs for dubbing
 - Meters and indicators
 - Receives and displays battery low condition (internal and transmitter)
- Model 1245 Installation Considerations
 - Power On
 - Unit performs self test
 - Select channel and code
 - Select recorder control
 - Manual or Automatic
 - Select Antenna
 - Internal or External
- Model 1225 Hand Held Transmitter
 - PTT walkie talkie style
 - Microphone sensitive
 - Need not be close to mouth
 - Should be held away from face/body when transmitting
 - Earpiece - Mic operation
 - Common battery
 - No squelch
 - Power LED flashes when battery low
- Safety Considerations
 - When using the Model 1225
 - Keep antenna away from body when transmitting
 - Keep transmit durations short
- Operational Scenarios
 - Direct
 - Listening post only
 - Monitor
 - Monitor and communication
 - Repeater Operation
 - Channel C
- General Care, Maintenance and Storage
 - Care
 - No alignment procedures
 - Charge batteries
 - Maintenance
 - Recorder can be removed for servicing
 - Internal battery (Model 1245) can be removed and replaced

Storage

Sensitive equipment should be secured
Should not divulge frequency

FCC Identifiers

Model 1250 - OHA1250-044502PAT
Model 1245 - Part 15, Subpart B
Model 1225 - Certification not complete
Only to be used with provided antenna

Other Devices and Equipment

Model 1230 Concealment
Model 1240 Repeater/Transceiver
Model 1260 Key Loader
Key Loader Adapters

Power Converters

Questions or Help

For operational assistance, technical support, questions
call ATS directly at 1-888-327-0107
ask for Rick or Tony
email to ajc_ats@hotmail.com