

## 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](mailto:ajc_ats@hotmail.com)