



## Audio Surveillance Monitoring

TSE 6403

TSE 4016

TSE 6401

TSE 4004

## GSM DATA AND AUDIO RECORDER

### TSE 6403

The TSE 6403 can be equipped with an internal solid state recorder for recording during periods when communications are lost or inadvisable. The TSE 6403 automatically records when audio is detected and the device is not communicating with the listening center. This recording can be downloaded later when conditions allow GSM communications to take place.

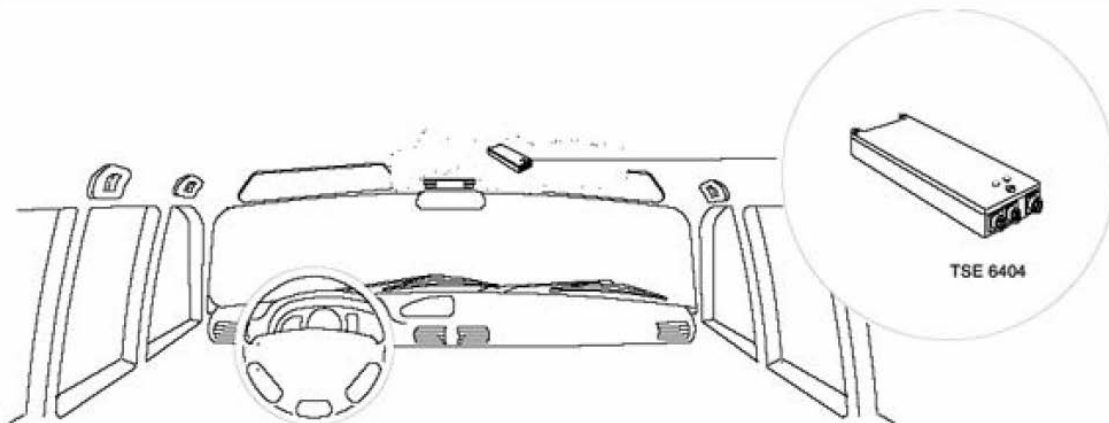


Other distinguishing characteristics are:

- small size and rugged construction
- exceptional audio quality
- reduced power consumption
- unattended operation, once installed no operator intervention is required

### MAIN FUNCTIONS

- Automatic calling to the listening center in case of motor sensor activation, a VOX event or when its digital input – connected to the vehicle electrical circuit -- receives any information from it
- Programmable with SMS and with DTMF tones
- Transmission of status information via SMS
- Security Code must be entered before audio monitoring or programming can be accomplished
- Light sensor for discovery detection sends an alarm via SMS



## GSM DATA AND AUDIO RECORDER

**TSE 6403**

### SPECIFICATIONS

Audio monitoring unit for covert audio surveillance using the GSM network, with internal solid state recorder

#### TSE 6403 Characteristics

Digital input (active high)	1
Digital output	1
Analog input	1
Microphones	2, selectable 7 levels 0÷36 dB
Light sensor	ON/OFF
VOX	Adjustable on 10 step
Motion sensor	Adjustable on 10 step
Remote Management	Via SMS or DTMF tones
Sending of SMS with cell information	
use of two SIM cards selectable by the user	
power supply	6÷36 V
Current drain	Receiving: approximately 20 mA @ 12 V Transmission: 80÷160 mA @ 12 V
Dimensions (mm)	90 x 39 x 11

#### Recorder Characteristics

Bandwidth	300÷3400 Hz (telephone system quality)
Compression algorithm	ADPCM 2:1 at 4 bit
Sample rate	8 KHz
Recording time	2h 20 m
Remote interrogation on recorded tracks	
information on available tracks	Start Duration
Listening through GSM voice channel	Track identification

## THE INFORMANT

TSE 4016

### OVERVIEW

Deployed in situations where a user's true mobile number needs to be withheld, The TSE 4016 is a convenient means of providing untraceable communications by both voice and SMS text messaging and is ideal for:

- Law Enforcement Informant and Operative Management
- Intelligence and Counter Intelligence work
- Hostage/Kidnap communications
- Witness relocation/protection communications
- Providing undercover operatives a covert communications recording facility
- Countermeasures against GSM location services

THE INFORMANT is a remote call diverter for use with GSM cellular networks. It allows calls to a given GSM mobile to be diverted to another mobile, thereby ensuring the anonymity of the called party.

Where an incoming call has to be monitored e.g. kidnap scenarios, THE INFORMANT offers digital recording and live monitoring on all diverted calls.

Key features of the system are:

- Receive and transmit text messages from any GSM network
- Automatically redirect text messages to a predetermined mobile
- Internal logging of all received and transmitted messages
- Logging of all user interactions with the system
- Redirect voice calls to a predetermined number
- Change predetermined number via text message
- Digitally record voice calls. (Analog output also available)
- Operates with any GSM network provider (including pre-paid)
- Totally under the control of the operator. No network involvement
- Compact system, totally portable (12v dc power requirement)



## THE INFORMANT

## TSE 4016

### THE INFORMANT

The GSM Call diverter THE INFORMANT system consists of:

- The informant communications module containing two GSM terminals and USB interface
- Controller PC running the application software and controlling the individual GSM terminals within the TSE 4016

The system controls phones by answering calls, making calls, re-directing text messages and voice calls to other numbers, and logging CLI (caller ID) with or without answering the call. All voice and text information are stored in an easily configured database on hard disc, for simple interrogation of data.

### THE INFORMANT COMMUNICATIONS

The TSE 4016 module contains two digitally controlled Tri Band GSM phone terminals each capable of handling voice or SMS text messaging. The received audio and text from one module can be retransmitted by the other module, and vice versa. These modules are able to accept SIM cards, pre paid (or contract), which makes them virtually untraceable and allows easy replacement if any number is compromised. The TSE 4016 provides an analog audio output (Stereo Jack socket) for live monitoring or analog recording. Two SMA aerial connections are provided with suitable aeriels. Power required is 12V DC. A Switch mode power supply and a vehicle 12v adaptor are supplied with the TSE 4016.

### CONTROLLER PC

SPARROW communicates with the controlling PC via the industry standard USB interface. The PC can be equipped with a CD-writer for system backup and 10/100 LAN interface for connection and control over a network.

The software provides secure password protected control over the system configuration as well as an audit facility that maintains a record of system changes and includes:

- Date, time, and incoming, outgoing calls per facility (CLI and DNI)
- SIM history (date inserted into module and module IMEI)
- Handler history per facility
- External time reference interface (Rugby/GPS/Internet)
- Record of changes to any 'editable' function (Tamper Proof)
- System Administrator access. All received Text messages
- Digital recording and play back of all Calls
- Built in database to organize data, and aid in presentation of cases



## SURVEILLANCE SPY PHONE

**TSE 6401**

Incorporating the latest technology we are proud to announce the arrival of the Interceptor spy phone. These phones have the following features;

- Listen into the mobile conversations made/received on the Spy Phones\*.
- Receive copies of all incoming & outgoing SMS (text) messages.
- Notification, via SMS, of when a call is made or received with the number of the caller or number dialed.
- Listen in to the surrounding conversations/noises of the 'Spy Phone'.
- Notification, via SMS, of when the SIM card has been changed & its new number.
- Remotely change the 'AN' (Access Number) by simply sending a SMS (text) command.
- No alert to the target as there will be NO logs, lights flashings, noises or vibration when a 'Spy' feature is activated.

### SMS INTERCEPTION

Simply give the target this Spy Phone and every time they send or receive a text message a copy will be sent to your phone (or a different predefined mobile number). Your copy will include the actual message, the sender/recipients number and the time & date.

### CALL INTERCEPTION\*

Every time the target makes/receives a call with the Spy Phone you will be notified via SMS with the caller's number or the number the target has dialed and if you if you ring the Spy Phone from the access number you will be able to intercept the call\* and hear both sides of the conversation.

### ROOM INTERCEPTION

When the Spy Phone is on but not in use you can ring into the Spy Phone from the access number and listen in to the surrounding conversations/noises. This is the latest and most popular method of monitoring mobile phone activity whether it's to monitor partners/spouses, colleagues or even your children.

### Phones Examples



## MULTI ROOM MONITORING VIA TELEPHONE CABLES

## TSE 4004

The TSE 4004 Wired Room Monitoring system is a highly professional system designed for remote monitoring where full transmitter control via standard PSTN lines is needed.

TSE 4004 is designed to allow the user to install up to 8 transmitters using a combination of active phone lines or spare wires and mains lines.

The individual transmitters can be switched on and off remotely.

The modular TSE 4004 system consists of transmitter(s), one receiver module, PSTN modules and of control software for PC. **Transmitters** The TSE 4004 transmitters incorporate the following advanced features: scrambler, AGC and remote control receiver.



The remote controlled functions of the transmitters are power on / off and scrambler on / off.

Two different types of transmitters have been developed for the TSE 4004 system. The TSE 4004 Wired Monitoring transmitter (HWM) is to be used on active phone lines or spare wires. The TSE 4004 Carrier Current transmitter (HCC) is to be used on active mains lines.

### RECEIVER SYSTEM

The RX module is a small, flat and compact cabinet, which is only 44 mm high. One RX module handles 2 transmitters simultaneously.

The RX module has the following features:

- Target line interface for both PSTN and spare wires (HWM) and mains wires (HCC)
- Dual tuner - each with 4 channels • High impedant input for LF audio. Enables monitoring of PSTN line without transmitter
- Audio descrambler
- Remote control of transmitters
- Noise masking for HWM transmitters
- Line output for recording
- Output for headphones

It is possible to have both HWM and HCC transmitters operating at the same time, enabling the operator to monitor on e.g. one HWM transmitter and one HCC transmitter simultaneously.

The RX module is powered from an external low voltage source. The RX module is delivered with a mains adapter, but can also be powered from e.g. a car battery.

### PSTN MODULE – REMOTE SET-UP

The PSTN module provides a link from the listening post to the monitoring site. One PSTN module is needed at the monitoring site and one at the listening post. The PSTN module can handle 2 lines simultaneously and transfers both the audio from the transmitter and the remote control commands.

## MULTI ROOM MONITORING VIA TELEPHONE CABLES

## TSE 4004

The PSTN module at the monitoring site can also be dialed up from standard telephone equipment, including mobile phones. Access to the system is done by means of the telephone keypad. This feature enables the operator to make a quick control of the TX / RX / PSTN set-up.

The PSTN module is very easy to install – it is connected to the receiver via one single cable containing all the required signals and power.

### CONTROL SOFTWARE

All facilities in the TSE 4004 system can be software controlled via a PC. The control set-up can be provided by connecting the control PC directly to the receiver module or to the local PSTN module at the listening post.

### APPLICATIONS

TSE 4004 is ideal for operations requiring:

- Single room monitoring
- Multi-location room monitoring
- Phone lines, spare wires and mains lines
- Local set-up
- Remote set-up
- Undercover "black-box" set-up
- Small size transmitters
- Audio scrambling
- Remote control of transmitters
- PSTN module for link of intercepted audio to remote listening post
- Current re-injection on phone lines for system security
- Small "black-box" receiver unit
- Control of software via PC
- Easy to install
- Easy to use

### FEATURES

- 4 active transmitter channels
- High audio quality





## MULTI ROOM MONITORING VIA TELEPHONE CABLES

**TSE 4004**

### SPECIFICATIONS

<b>RX module</b>	Number of channels	4
	Frequency range	110-240 kHz
	Sensitivity	10 dBuV / 20 dB SINAD
	Number of built-in tuners	2
	Modulation	FM
	Remote control transmitter	28 kHz, OOK
	Serial interface to PC / PSTN module	RS-232
	Power source	7-11 VAC or 10-15 VDC
	Dimension (HxWxD)	44x130x164 mm / 1.7x5.1x6.5 inches
<b>Transmitters</b> <b>General data</b>	Number of channels	4
	Frequency range	110-240 kHz
	Type of modulation	FM
	Audio scrambling	Frequency inversion
	Remote controllable	Yes
	Packing	Shrink tube, black
<b>HWM specific data</b>	Transmitted power	50 mVRMS into 100 $\Omega$
	Line voltage range	6-80 VDC
	Dimensions (HxWxD)	Approx. 7.5x32x20 mm / 0.3x1.3x0.8 inches
<b>HCC specific data</b>	Transmitted power	500 mVRMS into 2 $\Omega$
	Mains voltage range	85-265 VAC
	Dimensions (HxWxD)	Approx. 15x35x23 mm / 0.6x1.4x0.9 inches
<b>PSTN module – Remote set-up</b>	PSTN interface	Global compliant, SW controlled
	Number of PSTN lines	2
	Data mode	FSK / DTMF
	Tape control	VOX controlled, adjustable from PC SW
	Serial interface to PC / RX module	RS-232
	Dimension (HxWxD)	44x130x84 mm / 1.7x5.1x3.3 inches



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