



Technical Surveillance Cars

Overview

TSE 7102

TSE 7101

TSE 7103

TSE 7105

REMOTE SURVEILLANCE CAR SYSTEM

Remote Surveillance Vehicle Car Surveillance System is designed to allow covert video and audio surveillance of a target area without detection; allowing greater flexibility in surveillance operations.

The system allows the operator to park the vehicle close to the target location, house, office, restaurant etc. and transmit the information gathered back to the command location in a surveillance van, observation point or another support vehicle.

is the total concept covert surveillance support platform; it will allow the operational surveillance team to monitor by video for example the target location images from the four cameras concealed within the vehicle.

will allow the surveillance team to monitor audio transmissions from the target location from room or Bodyworn equipment deployed, and activate hidden microphones linked to the Remote Case.

will also allow the operational surveillance team to connect external video and audio equipment to allow for long range observation of a target in a difficult environment or remote location.

Control of the system is via a digital telemetry link allowing full control over, camera selection, pan, tilt, zoom functions, plus, repeat incoming video and audio signals from the room or Bodyworn systems used by the undercover surveillance team.

These remote systems are usually fitted into vehicles (saloon cars, 4x4's) that can then be left unattended in the surveillance area, transmitting the intelligence information required to the Command Surveillance Vehicle on microwave, VHF, UHF or Cellular Telephone (GSM).

Using our unique Motorbike Remote System as part of the total surveillance operations will allow even greater flexibility in the covert surveillance operation by using the Motorbike remote System will allow the surveillance team to link several video audio remote systems within the total surveillance concept.



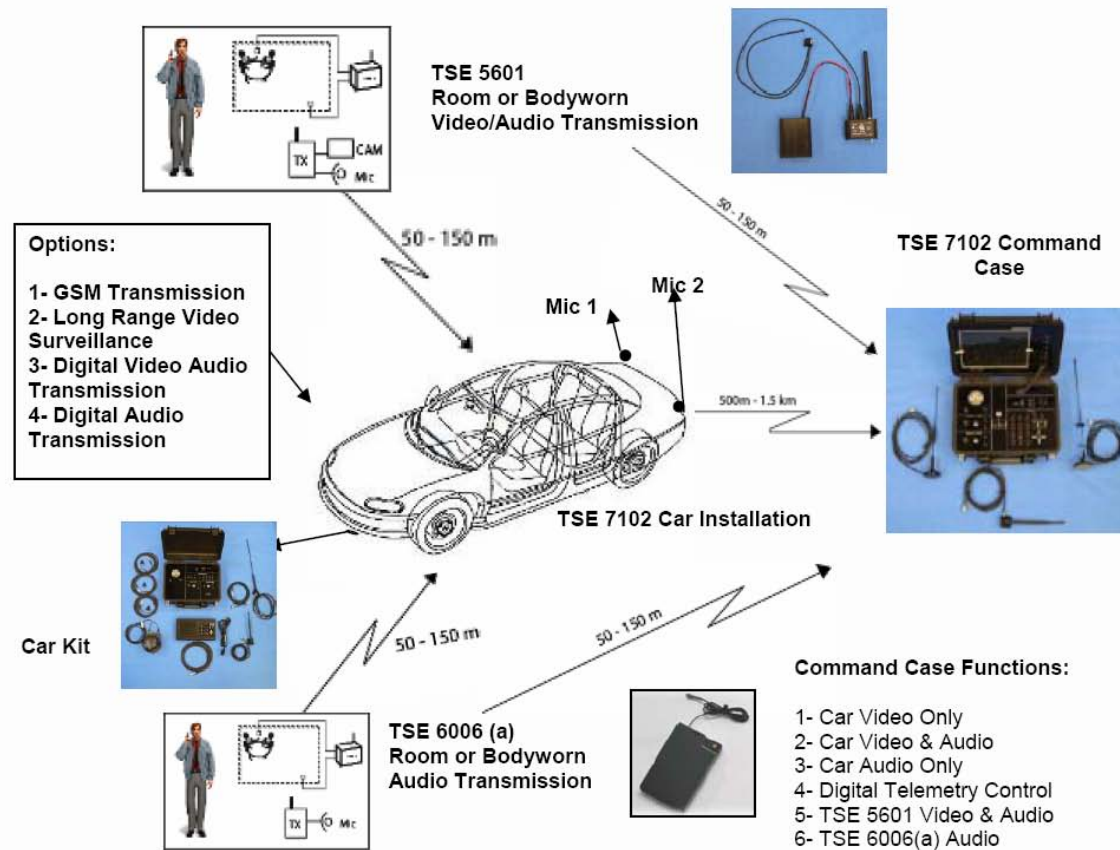
REMOTE SURVEILLANCE VEHICLE SYSTEM

TSE 7102

The car based section of the system uses the latest technology to transmit, receive video and audio signals, repeat the signals to the Remote Command Case, record of all incoming signals on the latest Ruggedised Digital Recorder fitted in the surveillance platform, the signals can also be recorded at the Remote Command Case should the client wish this facility.

Transmission from the main surveillance platform can be via, RF Microwave Links, Cellular (GSM) Links, Audio RF Links. In keeping with the total surveillance concept just about any transmission medium can be employed with the Remote Surveillance Vehicle Car Surveillance System.

Diagram of Total Surveillance Concept



REMOTE SURVEILLANCE VEHICLE SYSTEM

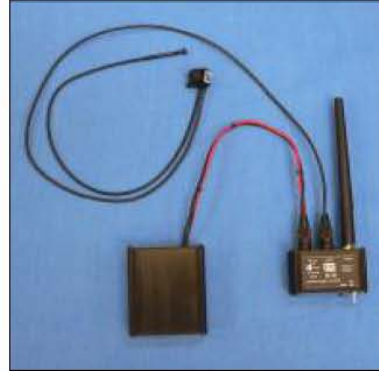
TSE 7102

SYSTEM COMPONENTS

It is comprised of the following items of equipment;



Main Control Cases



TSE 5601- Room / Bodyworn System



Portable Command Control System



Car Installation Kit



REMOTE SURVEILLANCE CAR SYSTEM

REMOTE SURVEILLANCE VEHICLE SYSTEM

TSE 7102

VEHICLE INSTALLATION



Periscope Camera



Digital Video Audio Recorder



Video Recorder



Zoom, Pan & Tilt



Fixed Wide Angle Lens



Fixed Covert Fitted

REMOTE SURVEILLANCE VEHICLE SYSTEM

TSE 7102

KEY FEATURES

CAR SYSTEM

- Video & Audio Transmission
- Video Receiver
- Channel Selector with Display
- Adjustable Power Output
- Digital Telemetry Receiver
- Quad Processor
- 3 x Fixed Colour Cameras
- 1x Zoom, Pan & Tilt Colour Camera
- 2x Electret microphones
- Local Control Monitor
- Ruggedised Digital Video & Audio Recorder
- Covert Antenna system



REMOTE COMMAND CASE

- S Band Video Receiver
- L Band Video Receiver
- Audio Receiver
- Digital Telemetry Transmitter
- Video Channel Selector
- Audio Selector
- Video Level Control
- Integrated Speaker
- Integrated 12 inch Colour TFT Monitor
- Mains or 12vdc Car Powered
- Joy Stick Controls for Pan, Tilt, Zoom
- Button Controls for Focus, Day, Night
- Colour or Black & White



REMOTE CONTROLLED VEHICLE SYSTEM

TSE 7101

Complementary to our Surveillance Vehicles GAMMA TSE also manufacture Remote Controlled Case Systems, again to the client's requirements, allowing greater flexibility in surveillance operations.

These remote systems are usually fitted into vehicles (saloon cars, 4x4 ORVs or motorbike helmet boxes) that can then be left unattended in the surveillance area, transmitting the intelligence information required to the Command Surveillance Vehicle on microwave, VHF, UHF or Cellular Telephone (GSM).

From the Command Van it is possible to control all the camera functions, pan, tilt, zoom and focus, switch between cameras, and activate hidden microphones linked to the Remote Case.

The cases can be used as a single link to the Command Van or be combined to a repeater link for greater distances.



Car System

When the occasion arises that it is impossible to use the Command Van, GAMMA TSE has manufactured a Portable Command Case that duplicates the control functions of the Command Van. It can also record all incoming videos, cellular videos, audio transmissions, with the main control being a laptop computer.



Portable Command Case

REMOTE CONTROLLED VEHICLE SYSTEM

TSE 7101

SPECIFICATIONS

The basic case is filled with the following items, which can be upgraded as per the client's specifications and requirements

| BASIC CASE SPECIFICATIONS | OPTIONS |
|--|---|
| Digital Recorder | Digital Time Lapse Recorder |
| 1 watt VHF/UHF 320-380 MHz Video Transmitter with Audio/Data | 1-5 Watt L or S Band Microwave Transmitter with Audio/Data Channel |
| VHF/UHF 320-380 MHz Video Receiver with Audio/Data | Remote Controlled 1-5 Watt L or S Band Microwave Transmitter. Power output change, Frequency Select, On/Off. RS232 Control. |
| Microwave Receiver L or S Band with Audio/Data Channel | 5 watt VHF/UHF 350 MHz Repeater with Audio/Data |
| Built-in 6 inch Color TFT Monitor with Audio | 5 Watt L or S Band Microwave Repeater |
| Switched Mode Power Supply 110/220 vac/12vdc | Diversity Microwave Receiver with Audio/Data Channel |
| Built-in 12 vdc Battery and Charger | Digital Cut & Rotate Encryption for Transmission & Repeater |
| 4 Way Camera Switcher | Wireless Telemetry System |
| Telemetry TX & RX | Combined Hand Held 6 inch Color TFT Monitor with Telemetry Controls |
| Remote Telemetry Hand Controller for Camera Operations | 12volt Gel-Cell Battery & Military Specification Split Charge System for vehicle fitting. |
| Remote 4 inch Color TFT Monitor | Range of "Hides" for the Pan & Tilt Head and Camera |
| Covert Antennas | |
| High Gain Directional Overt Antennas | |
| One Miniature Pan & Tilt Head | |
| One Sony OEM Camera with Zoom Lens | |
| Three Pinhole Color or B&W CCD Cameras | |

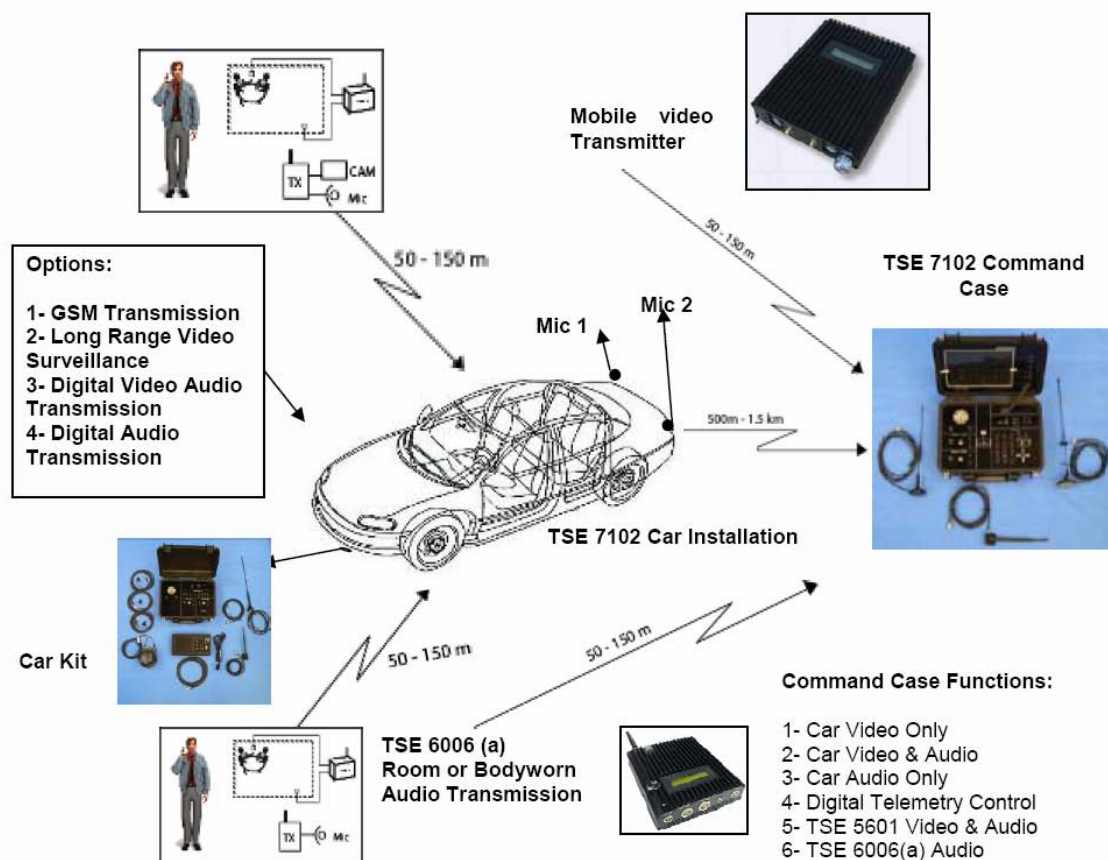
COFDM REMOTE SURVEILLANCE VEHICLE SYSTEM

TSE 7103

The car based section of the system uses the latest COFDM technology to transmit, receive video and audio signals, repeat the signals to the Remote Command Case, record of all incoming signals on the latest Ruggedised Digital Recorder fitted in the surveillance platform, the signals can also be recorded at the Remote Command Case should the client wish this facility.

Transmission from the main surveillance platform can be via, RF Microwave Links, Cellular (GSM) Links, Audio RF Links. In keeping with the total surveillance concept just about any transmission medium can be employed with the Remote Surveillance Vehicle Car Surveillance System.

Diagram of Total Surveillance Concept



COFDM REMOTE SURVEILLANCE VEHICLE SYSTEM

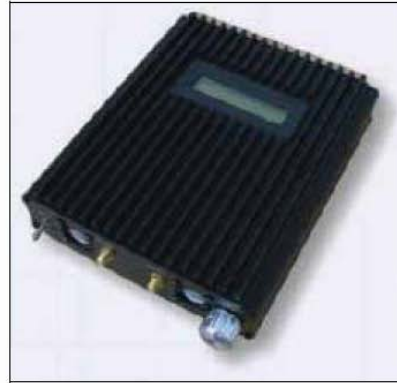
TSE 7103

SYSTEM COMPONENTS

It is comprised of the following items of equipment;



Main Control Cases



Mobile Video Transmitter



Portable Command Control System



Car Installation Kit

Optional Components



Optional Amplifier



Optional Diversity Receiver

COFDM REMOTE SURVEILLANCE VEHICLE SYSTEM

TSE 7103

VEHICLE INSTALLATION



Periscope Camera



Digital Video Audio Recorder



Video Recorder



Zoom, Pan & Tilt



Fixed Wide Angle Lens



Fixed Covert Fitted

COFDM REMOTE SURVEILLANCE VEHICLE SYSTEM

TSE 7103

KEY FEATURES

CAR SYSTEM

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- Quad Processor
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REMOTE COMMAND CASE

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- Joy Stick Controls for Pan, Tilt, Zoom
- Button Controls for Focus, Day, Night
- Colour or Black & White



REMOTE CONTROLLED MOTORBIKE SYSTEM

TSE 7105

Complementary to our Surveillance Vehicles GAMMA TSE also manufacture Remote Controlled Case Systems, again to the client's requirements, allowing greater flexibility in surveillance operations.

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Motorbike System

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Portable Command Case



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or would like to discuss a specific requirement or project, please contact us at:

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