



## Portable VIP Protection

CCTV & Alarm System

## **INTRODUCTION**

The revolutionary new system developed for VIP Protection Teams who need to deploy quickly and efficiently a system of CCTV cameras and alarm sensors all transmitting back to the main control case. 8 Cameras-4 Video Transmitters-Encryption-PIR and IR (Infra Red) alarm system-Digital Recorders-4 split monitors. The system can either be used fully wirelessly or wired. All is fully portable.

## **CAMERAS**

Supplied with each kit are two sets of cameras, the first set are Four Colour Black & White fitted with wide angle lenses, a selection of lenses are supplied for different situations, the camera housing also includes 4 x 250mW microwave transmitter, adjustable in 1MHz steps for fine tuning, plus dedicated encryption for each camera and remote control receiver.

These cameras are fitted with a rechargeable battery pack, the cameras can be set to two modes; one camera in standby coming live when alarm signal is received, this gives a long operation time on battery, second live at all times, the alarm signal then activates the recorder in the control case, in this mode the battery pack will last approximately 5 hours.

A separate mains power pack is supplied for long-term operations.

The second set of cameras are high resolution low light black & white cameras that are line fed and are for direct connection to the control case, these cameras are fitted into external housings for exterior operation, they can be fitted with optional microwave transmitters.

An optional set of Thermal cameras can also be supplied with and without microwave transmitters for situations where light conditions justify thermal cameras.

## **ALARM SYSTEM**

Supplied with each kit are four x PIR radio sensors and four x magnetic radio door contact sensors.

The sensors are in constant communication with the main case, checking, battery level, anti-tamper, range with the control case, this allows the operator to move the case from different locations within the protection area and instantly check if the alarm signal is being received.

The sensors link to the transmitting cameras, which when in standby mode will be activated immediately, plus the recorder in the control case will be activated and the alarm sounded.

An optional pager system can also be linked to the control case alarm system to call the team leader or other operators when they are away from the control location.

## **CONTROL CASE**

The control of the complete system is fitted into a Pelican case for durability. The case houses in the lid, four 8-inch colour LCD monitors and the speaker, in the main section the receivers are mounted with signal strength meters, frequency control in 1MHz steps allowing for fine tuning on site.

Recording is via the Digital Video/Audio Recorder utilising the latest technology in hard drive recorders, the digital recorder uses a removable hard drive and produces DVD quality video and audio recordings, the recorder has many functions such as freeze frame, slow motion, frame advance, jog shuttle etc all controlled from the LCD Touch Screen.

Recordings can be to the highest DVD quality at 1.5 hrs, SVHS at 4 hrs and VHS at 6 hrs on a 60GB hard drive.

Outputs are included for video and audio signals to external monitors or additional recorders.

The external low light and thermal camera hard wired inputs route via the case to the quad switch and recorder.

The unit is powered by 220vac as standard, with 12vdc vehicle inputs and an internal rechargeable battery for rapid set-up on site.

The accessories are fitted into a second Pelican Case allowing for ease of handling and protection of the cameras and ancillary equipment.

## TECHNICAL SPECIFICATIONS

CamTX

Water LCL181 fitted with - 250mW Video / Audio transmitter.

TSE CAMTX	<b>Audio Video Transmitter</b>
	1GHz–2.7GHz
Operating frequencies	Low Band 1GHz–1.4GHz in 10MHz steps adjustment by external rotary switch Mid Band 1.4GHz–1.9GHz in 20MHz steps 10 preset channels High Band 1.9GHz–2.7GHz in 25MHz steps 16 preset channels optional US model, 2.4GHz
RF power output	100mW $\pm$ 1dB
RF power impedance	50W (SMA)
Frequency stability	$\pm$ 300kHz
Video carrier deviation	$\pm$ 4MHz (FM)
Video input level	1Vpp adj. 75W (BNC)
Video frequency response	50Hz–5MHz $\pm$ 0/-2dB
Audio sub-carrier frequency	1.5MHz–7.5MHz
Audio sub-carrier deviation	$\pm$ 50kHz FM
Stereo version	8.065MHz Ch1, 7.500MHz Ch2
Audio pre-emphasis	Standard 50ms
Audio frequency response	20Hz–15kHz $\pm$ 3dB
Audio input level	LINE 100mV into 5KW MIC input 20mV for electret microphone (internal link selectable)
Power req. voltage	12.5Vdc, current 105mA
Dimensions	52mm x 64mm x 23mm
Working temperature	-10/+50°C
Weight	150g
RF connector	SMA female
Video connector	BNC female
Audio connector	RCA female
Supply connector	2 pole direct insertion



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