



## Portable VIP Protection 2

CCTV & Alarm System

## VIP KIT Rapid Deployment VIP Protection Kit



The VIP KIT has been designed to provide rapidly deployable CCTV and intrusion detection for all types of mobile operations.

The VIP KIT is a modular system that can be configured according to customer demands and situations.

### The standard model includes the following:

- ✚ Fully programmable and portable, ruggedized monitoring case
- ✚ 4 x Audio/Video Receivers
- ✚ 4 x Wireless and battery powered "Day/Night" camera units
- ✚ 4 x Wired and battery powered "Day/Night" camera units
- ✚ 4 x Wireless and battery powered PIR detector units
- ✚ 4 x Wireless and battery powered Door Contact units
- ✚ 1 x Fully programmable Digital Video Recorder with removable 80Gb hard disk
- ✚ 1 x 8" TFT Monitor connected to fully adjustable Quad multiplexer
- ✚ 1 x 8" TFT Monitor connected to DVR for full Video playback
- ✚ 1 x Remote control handset for remote activation of cameras
- ✚ Battery packs and chargers for all wireless items (12 units)

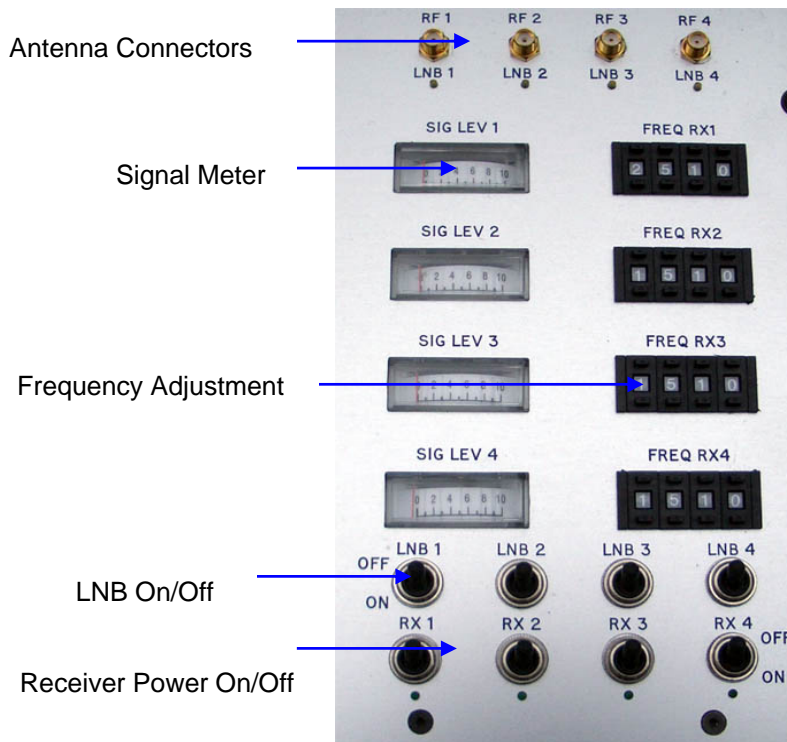
### The VIP KIT can be configured for any of the following options:

- ✚ Customer specified cameras with PTZ or other options
- ✚ GSM/SMS alert module
- ✚ Video encryption modules
- ✚ Audio encryption modules
- ✚ Smoke/Fire wireless detection units or any other form of sensor.

## Specifications

### Receivers

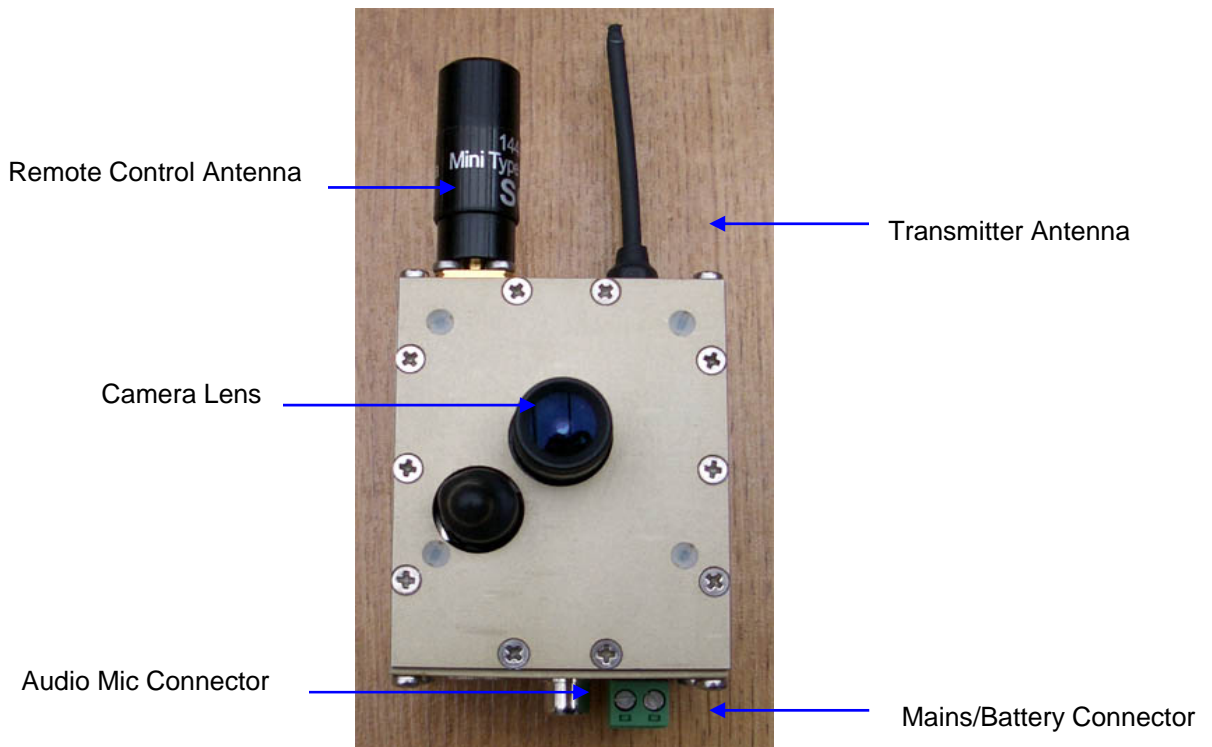
4 Receivers individually programmable to supplied transmitter frequencies, ranging from 900 – 2.2GHz with LowPas Filters to cut out unwanted interference.



<b>Frequency range</b>	900MHz–2200MHz (PLL)
<b>Programmable steps</b>	1MHz digital
<b>Noise</b>	10db
<b>Input impedance</b>	75W connector F female
<b>IF bandwidth</b>	27/16MHz SAW filter 479.5MHz
<b>Video deviation</b>	±4MHz (±8.5MHz max), +ve/-ve switchable
<b>Video output</b>	1Vpp on 75W adjustable (PAL, NTSC or SECAM)
<b>De-emphasis</b>	standard CCIR switchable
<b>Video frequency response</b>	50Hz–5MHz ±1dB with audio at 7.5MHz, ±2dB with audio at 5.5MHz
<b>Differential gain</b>	±4%
<b>Differential phase</b>	±4% >40dB
<b>Video S/N ratio</b>	unweighted deviation, = 4MHz RF input 50dBm
<b>Audio sub-carrier frequency</b>	unweighted deviation, = 4MHz RF input 50dBm
<b>Audio sub-carrier deviation</b>	±50kHz
<b>Audio de-emphasis</b>	50ms
<b>Audio frequency response</b>	15kHz–15MHz ±3dB
<b>Audio output</b>	0dBm on 1kW adjustable
<b>Audio S/N ratio</b>	>45dB unweighted
<b>Working Temperature</b>	0–45°C

### **Wireless Camera Units**

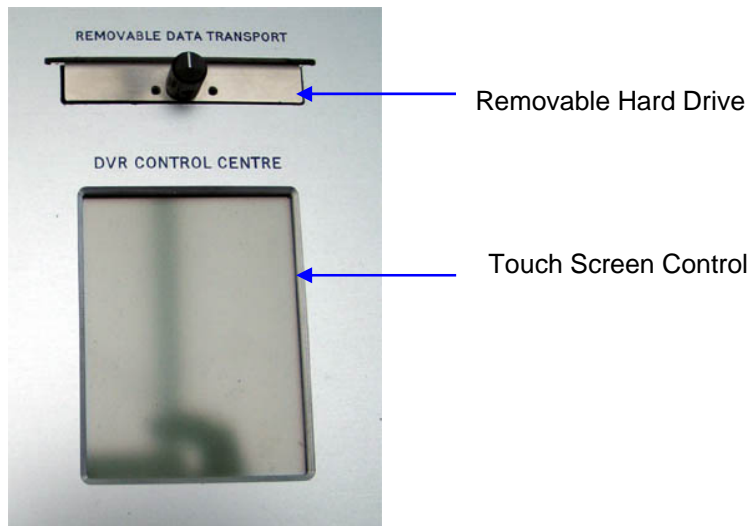
The camera units are installed with Day/Night cameras, 100Mw transmitters (higher power can be requested). Each unit has 10 channels to avoid frequency conflict. The cameras are programmed to remain in stand-by until alarm is received or remote control signal is received to switch them on. With the supplied battery pack, the cameras will remain powered for up to 6 months in stand-by mode.



<b>Camera</b>	4mm Lens Day Night Colour Camera (NTSC or PAL)
<b>Working Frequency</b>	900MHz – 2200Mhz 10 Channel
<b>RF Power Output</b>	100mW ±1dB
<b>RF power impedance</b>	50W (SMA)
<b>Frequency Stability</b>	±300kHz
<b>Video Carrier Deviation</b>	±4MHz (FM)
<b>Video input level</b>	1Vpp adj. 75W (BNC)
<b>Video frequency response</b>	50Hz–5MHz +0/-2dB
<b>Audio sub-carrier frequency</b>	1.5MHz–7.5MHz
<b>Audio sub-carrier deviation</b>	±50kHz FM
<b>Audi frequency response</b>	20Hz–15kHz ±3dB
<b>Audio input level</b>	LINE 100mV into 5KW MIC input 20mV
<b>Dimensions</b>	52mm x 64mm x 23mm
<b>Working Temperature</b>	-10/+50°C
<b>Weight</b>	150g
<b>Audio Connector</b>	RCA female
<b>Supply connector</b>	3 pin direct insertion

## **Digital Video Recorder**

The DVR is supplied with removable 80Gb hard disk. All functions are controlled from the touch screen panel. The DVR is installed in series with the 8" TFT playback screen and the camera connections. The DVR can be programmed to automatically record all alerts each time the video cameras are enabled.



## **Technical Specifications**

### **Video Input:**

One MiniDin 4 Pin connector

Analogue Input Composite and S-Video (Y/C), software selectable.

Level 1.0 Vp-p 75 ohms

PAL and NTSC standards, 625/50 (PAL) 525/60 (NTSC)

Pixel Resolution: 720 x 576 pixels (PAL), 720 x 486 (NTSC)

ADC:

Sampling: 13.5MHz

S/N Ratio 50db

Bandwidth: 7 MHz (-3db)

Differential Gain: 2%

Differential Phase: 2 deg.

ADC Differential Linearity: +/- 0.7 LSB

ADC Integral Linearity: +/- 1.0 LSB

### Video Output:

- + One MiniDin 4 Pin Connector
- + Analogue output composite and S-Video (Y/C), software selectable.
- + PAL and NTSC standards 625/50 (PAL) 525/60 (NTSC)
- + Level 1.0 Vp-p 75 ohms
- + 550 lines resolution
- + DAC:
  - High Quality 10-Bit Video DACs
  - Integral Nonlinearity < 1 LSB at 10 Bits
  - 80 db Video SNR

### Video Compression:

- + Wavelet codec for superior image quality
- + Real time compression or decompression at 720 x 288 @ 50 fields/sec – PAL
- + 720 x 240 @ 60 fields/sec – NTSC
- + Visually Loss-less compression at 4:1 on natural images
- + Compression ratio variable down to 4:1
- + Field rate variable from 50 fields/sec to 1 fields/sec PAL. (60 fields/sec to 1 fields/sec NTSC)

### Audio Input:

- + One 3.5mm stereo jack
- + Level Max 1 volt RMS 12 Kohm input impedance.
- + Resolution 16 bits, sampling rate 39375 KHz

### Audio Output:

- + One 3.5mm stereo jack
- + Headphone amplified output 82mW on 32 ohm, THD=0.1% (max) f=1 kHz
- + Digital db-linear volume control

### Power Input:

- + Power jack 2.1mm
- + Power requirement 12 volt at 500 ma while recording.

### **GPI Input:**

- ✚ One 2.5mm stereo jack
- ✚ 22 Kohm pulldown input resistance, digital level.
- ✚ +5 volt max 20ma available.

### **Infrared Receiver:**

- ✚ 38 Khz receiver compatible with RC5 standard.

### **Serial Port:**

- ✚ One 3.5mm stereo jack
- ✚ Three pin RS232 (TX, RX, GND) serial port.
- ✚ Programmable speed to max 115200 Baud.

### **Hardware:**

- ✚ Processor 32 bit RISC ARM ARM7TMDI core, clock speed 75.6MHz.
- ✚ 1 Mb flash memory, 256 bytes Flash EEPROM
- ✚ 32 Mb SDRAM
- ✚ LCD display 240 x 320 pixel touch panel and backlight
- ✚ 2.5" removable hard disk maximum size of 60Gb.
- ✚ PIO mode 4 protocol with maximum data rate of 16.6Mb/Sec.

## Wireless Sensor Units

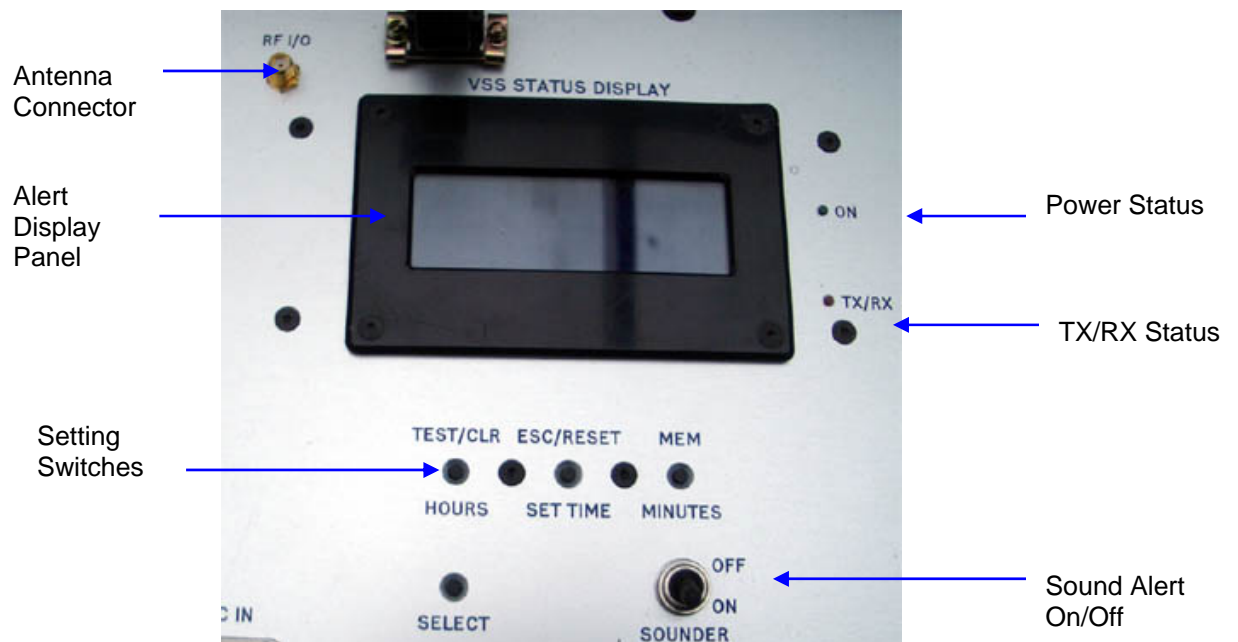
The VIP KIT will operate with up to 8 remote wireless sensors. Standard supply is 4 x PIR units and 4 x Door Contact units. Alternative sensors can be supplied upon request.

Each wireless unit is supplied with fully rechargeable battery packs giving up to 3 days power, transmitting on or around 836MHz frequency.

All sensors are directly controlled by the Master Wireless Communication Station installed in the control case. The MWCS will communicate every 3 seconds with the remote sensors, interrogating each unit for details of Battery level, Temperature and Signal Strength. Any change below accepted thresholds will set off the system alarm.

When the alarm signal is received and status of the MWCS advises anything other than battery loss, the remote control can be pressed to automatically switch on the cameras in the required area. If the system alarm is not attended to within 20 seconds, the cameras will automatically switch on and the DVR will automatically start to record.

An optional GSM module can be installed to allow transmission of alarm status by SMS to pre-programmed cellular number.







Wireless PIR



Built In TFT Monitors

### **Audio Control & External Wired Cameras**

The system is built to accept 4 external wired camera units. The system will display, either the Wireless or the Wired cameras through the built in Quad Multiplexer and built in TFT monitor.

To monitor 8 cameras, an external monitor can be used and connected to the system through an external switcher attached to the built in BNC Video Output sockets.

All Audio is controlled through the case mounted panel. Individual channels can be opened or closed for real time listening and DVR audio controls can also be adjusted from this panel.



**Wired Video and Audio Control Panel**



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