

## Unattended Surveillance using Cellular, Satellite and Wireless High Speed Data Networks

The HNC800 is a fully integrated communications product for unattended surveillance operations. The product uses cellular, Satellite or Wireless LAN communications to deliver daily activity logs, captured motion video and imagery to PCs and handsets. When configured for Event Based recording, triggering events can be notified through SMS or through Email with imagery/video attachments eliminating the need for continuous monitoring. The unit supports Time Lapse recording and can provide periodic imagery updates over the communications network eliminating the need for continuous site visits. The product has a wide range of applications in rural and remote surveillance operations where notifications and video verification are required only on event activity or at periodic intervals.

The product can be accessed from an operations centre using a PSTN dial up connection to update configuration and control data or over short distances using the WLAN to retrieve recorded media, view live video and update configuration and control data.

When the unit is powered from a battery source the product will operate in a very low power (sleep) mode until an event occurs. The unit will then transmit the imagery/video associated with a triggering event to PCs and handsets. In low power mode, dialling into the cellular modem activates the WLAN enabling broadband access to the unit over short distances. This extends battery life and is an ideal solution for accessing the device to remove recorded media or to view live video without compromising a surveillance operation. Iridium satellite connectivity is provided for in areas where cellular connectivity is not possible.

The product is completely configurable through the web interface, controlling the bandwidth requirements for video and telemetry transmission, the activation and deactivation of alarm events and the recipients of the SMS and Email messages with imagery/video attachments.

The product will interface to a variety of external sensors and is supported with both wired and wireless Passive Infra Red and magnetic sensors.



### Features

- From 1 to 4 CCTV inputs supporting PAL/NTSC with support for PTZ
- From 1 to 4 external alarm inputs, internal 434MHz coded radio receiver plus external tamper
- Live and pre-recorded video accessible from Satellite, WLAN and Cellular networks
- Removable 4GB Compact Flash memory storage card
- Email and SMS notifications on event triggering or at periodic intervals
- Email with image/video verification of triggering event or at periodic intervals
- Low power consumption and Satellite/Cellular connectivity makes it ideal for remote surveillance
- Display resolutions 176X144 (QCIF), 352X288 (CIF), 640X480 (VGA), 704X576 (D1)

## Hardware

### Electrical

- Input Volts: 7.5 to 15 volts Battery or Mains adapter
- Power consumption: 8 Watts (exc. cameras and PT)  
0.2Watt Sleep

### Mechanical

- Unit weatherproof dimensions 360 X 290 X 165mm
- Compact Flash Type 1/2 memory card

## Software Applications

- HTTP server
- FTP server
- Real Time Media Streaming server
- Video Motion Detection
- SMTP email with imagery/video attachments
- SMS
- Web based configuration

## Alarm Monitoring

### External

- Trigger level: Relay N/O, N/C.
- Transistor open collector: 10mA max
- 434MHz coded sensor radio receiver
- Alarm duration: 1 second min

### System

- Battery level
- Continuous external sensor alarm
- Memory card full
- Tampering

## Imagery/Video Interface

- Camera PAL/NTSC CCTV, 75Ω, 1Vpp
- JPEG imagery encoding
- MPEG4 video encoding
- Display resolutions - QCIF, CIF, VGA, D1

## File Format

- MP4/JPEG file format for storage and playback

## Terminal Software

- MPEG4 media streaming player

## Recording

- Pre Event Video 1 to 10 seconds
- Post Event video 1 second to 10 minutes
- Record from 8 cameras simultaneously
- Time Lapse Recording

## Communications

### LAN

- WLAN 802.11

### Cellular

- GSM/GPRS Dual Band 900/1800MHz or 850/1900MHz
- CDMA2000

### Satellite

- Iridium

## Management

- Configure alarm sensors for Off/NO/NC
- Notification interval: - Every event to once per day
- Alarm message text on event activation
- Alarm video or image on event activation
- Critical alerts for system alarms
- **Specify** which cameras will record from sensors
  - Video format, quality and frame rate
  - Alarm filtering – AND/OR, Number/Time
  - Recording length
  - On/Off monitoring time
  - Recipients of text and email sensor activations

