

## Rural and Remote Surveillance using Cellular and High Speed Data Networks

The iServe HNC600 is an advanced rural and remote surveillance technology product that provides a simple and cost effective method for unattended surveillance operations. The product uses cellular or satellite communications to deliver 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 also supports Time Lapse recording and will 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.

When the unit is powered from a permanent source, the product will email the pre and post event video associated with an event to PCs and handsets. The product can be accessed on-line remotely using the WLAN to view live video.

When the unit is powered from a battery source the product will operate in a very low power mode until an event occurs. The unit will then email 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 data or to view live video without compromising a surveillance operation.

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 is supported with both wired and wireless Passive Infra Red and magnetic sensors.



### Features

- From 1 to 8 CCTV inputs supporting PAL/NTSC
- From 1 to 8 alarm inputs for event triggering
- Live and pre-recorded video accessible from LAN, WLAN and Cellular networks
- Removable 4GB Compact Flash memory storage card
- Receive Email and SMS notifications on event triggering or at periodic intervals
- Receive Email with video verification of triggering event
- Low power consumption and cellular connectivity makes it ideal for remote surveillance
- Screen resolutions variable from 176X144 (QCIF), 352X288 (CIF), 640X480 (VGA)

## Hardware

### Electrical

- Input Volts: 12 volts Battery or Mains adapter
- Power consumption: 12 Watts maximum, 0.3 Watt standby

### Mechanical

- Unit weatherproof dimensions 424 X 332 X 111 mm
- Compact Flash Type 1/2 memory card

## Software Applications

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

## Imagery/Video Interface

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

## Alarm Monitoring

- **Inputs:** configurable through web browser  
Trigger level: 2.2Volts, max input 4 Volts  
Source/Sink current: 10mA/100uA  
Resolution 0.1Second

## Communications

### LAN

- 1 port 10/100 Mbps (MIL-C-26482 connector)
- WLAN 802.11

### Radio

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

### Protocols

- HTTP, FTP, ARP, RARP, DHCP, RTSP, RTP/RTCP, UDP, TCP/IP, PPP, CHAP

## File Format

- MP4/3GP file format for storage and playback

## Terminal Software

- MPEG4 media streaming player: Apple QuickTime or 3GP compliant media player

## Recording

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

## Management

- Configure Alarm sensors for Off/NO/NC/OR/AND
- Notification interval: - Every event to once per day
- Alarm message text on event activation
- **Specify** which cameras will record from sensors
  - Video quality and frame rate to capture
  - Alarm filtering
  - Recording length
  - On/Off monitoring time
  - Recipients of text and email alerts
  - Recipients of email attachments

