



# 9131

## ENCOM Model 9131 Wireless Video over Ethernet Solution

### Features

- Long Range Reliable Video Communications
- 900 MHz License Free communication up to 60 miles
- Frequency Hopping Spread Spectrum (FHSS) radio for robust operation
- Point to Point and Point to Multipoint configurations supported
- High Quality Video Stream
- Up to 30 Frames per second
- Accepts standard BNC Composite video with NTSC/PAL auto sensing
- True Ethernet Connectivity
- Supports Industry Standard 10/100Base-T
- 345 Kbps total bandwidth
- PTZ control, RS-232 or RS-422 configurable

### Description

Remote video camera monitoring over wireless Ethernet is now possible with the Model 9131 from ENCOM Wireless Data Solutions. The Model 9131 is a plug and play package providing a complete wireless video monitoring solution for remote camera sites. Connect any standard analogue (NTSC/PAL) camera to the 9131 and instantly access full frame rate video over a wireless Ethernet link up to 60 miles away. An associated Model 8130 Wireless Ethernet transceiver is connected to the WAN/LAN and the video is available on the TCP/IP network.

The Model 9131 located at the camera site utilizes an onboard MPEG-4 video server to compress the video signal. An integrated ENCOM 900 MHz FHSS wireless Ethernet transceiver provides a long range and reliable wireless link with the flexibility necessary to communicate with remote camera installations. A serial port (RS-232/RS-485) is built-in for complete control of PTZ (pan, tilt, zoom) functions.

The high quality video stream can be viewed via a number of interface options. City Eyes software from ENCOM can be run as a stand alone program allowing control and monitoring of multiple Ethernet video streams.

The high quality images can also be viewed using a standard internet browser.



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Wireless Solutions for Traffic Monitoring and Control

## Specifications

| 9131 Wireless Video over Ethernet |  |  |  |
|-----------------------------------|--|--|--|
| Frequency                         | 900 MHz  | Ethernet                               | 10/100 Base T, IEEE 802.3  |
| Spread Spectrum                   | Frequency Hopping (FHSS)   | Network Protocols                      | TCP/IP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DDNS, UPnP and DHCP   |
| Link Rate                         | 345 kbps   | Management                             | Local, Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade   |
| Hopping Patterns                  | Automatically Generated  | Diagnostics                            | VSWR, Battery Voltage, Temperature, RSSI, remote diagnostics   |
| Hopping Channels                  | 50 /Pattern  | Operating Modes                        | Point-to-point, Point-to-Multipoint, Store & Forward Repeater, Peer to Peer  |
| Error Detection                   | 32 bit CRC, ARQ  | Rejection                              | Excellent Strong Signal Interference & Rejection Characteristics   |
| Data Encryption                   | 128 bit/ 256 AES (non-export)  | Power Supply                           | 9 VDC to 30 VDC  |
| Range                             | Up to 60 miles (clear LOS)   | Current (12VDC)<br>Transmit<br>Receive | 600 mA + 350 mA<br>95 mA + 350 mA  |
| Output power                      | 100 mW to 1 W (20-30 dBm)<br>adjustable in 1 dB steps  | Connectors<br>Antenna<br>Data          | Reverse gender TNC<br>RS232 DB9F<br>Locking terminal connector<br>RJ-45  |
| System Gain                       | 136 dB at -106 dBm<br>sensitivity  | Environment                            | 0°C to +50°C (32-122 °F)<br>Humidity 95% RH  |
| Serial Port                       | RS232: Rx/D Tx/D RTS, CTS,<br>DCD, DSR, DTR<br>RS422: Tx+, Tx- Rx+, Rx-<br>RS485: 4 wire/ 2Wire<br>Baud Rate: 300 bps to 230.4<br>kbps | Weight                                 | Approx. 900 grams  |
| Dimensions                        | 6.5" x 4.75" x 3.75  | Enclosure                              | Extruded Aluminium   |
| Video                             | Algorithm supported MPEG-4<br>(short header mode)<br>Video input BNC composite<br>video input with NTSC/PAL<br>auto-sensing            | Features                               | - Adjustable image size,<br>quality and bit-rate<br>- 3 motion detection windows<br>- Time stamp and text overlay  |
| NTSC                              | Up to 30 frames at 176 x 120<br>Up to 30 frames at 352 x 240<br>Up to 10 frames at 704 x 480   | General I/O                            | 1 sensor input max. 12 VDC 50 mA<br>1 relay output max. 24 VDC 1A / 125 VAC<br>0.5 A   |
| PAL                               | Up to 25 frames at 176 x 144<br>Up to 25 frames at 352 x 288<br>Up to 10 frames at 704 x 480   | Alarm Features                         | -Motion detection with percentage and<br>sensitivity<br>-3 color images per camera for pre/post<br>alarm<br>-Automatic transfer of stored images via<br>email or FTP |
| Viewing System Requirement        | Operation system: Microsoft<br>Windows 98 SE, ME,<br>2000, XP  | Supported Web Browser                  | Internet Explorer 5.X or above   |
| Security                          | -Administrator and user group protected<br>-Password authentication  |  |  |

\*\*ENCOM reserves the right to make changes to specifications of products described in this data sheet at any time without notice.

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