



## **AC1100W**

### **Wireless Network Video Server**

#### **System Introduction:**

AC1100W Digital Video Microwave, as an ideal arrangement for rapid expanding the scope of CCTV systems, by following the SmartSight's SPCF polling protocol, can effectively resolve the inherent problems in wireless networking products, like "hidden node", QOS, transmission distance, safety and etc. AC1100W can be configured to 802.11a / b mode in order to be compatible with the existing wireless networks. AC1100W and AC1100W/31 Multi-channel Digital Video Microwave can be applied in combination with the lower cost than laying new cables to achieve the expansion of CCTV on the LAN. Several video monitoring links composed of multiple AC110W AND AC1100W/31 could be established at the same location. The configuration and management of the device can be realized by SmartSight NdvR, SmartSight NdvR Pro or Sconfigurator software. AC1100W Digital Video Microwave, based on open standards, can provide long-term investment protection.

#### **Main Features:**

- Digital video and wireless microwave highly integrated;
- Provide an effective expansion of the traditional wireless system and specialized solutions for the migration of analog CCTV cameras to IP network;
- Provide secure wireless connections of end to end AES encrypted;
- SSL-based authorized access to equipment control and wireless network configuration and management;
- Provide high-quality video transmission at 30frame/s in MPEG-4 by low bandwidth;
- Provide transparent connectivity to the integrated ball-camera, PTZ camera and the asynchronous serial devices by Adaptive RS-232/422/485 serial port;
- Easily connected to detectors, sensors, or alarm;
- Firmware can be upgraded through network (decrypting equipments included);
- Optional two-way audio interface;

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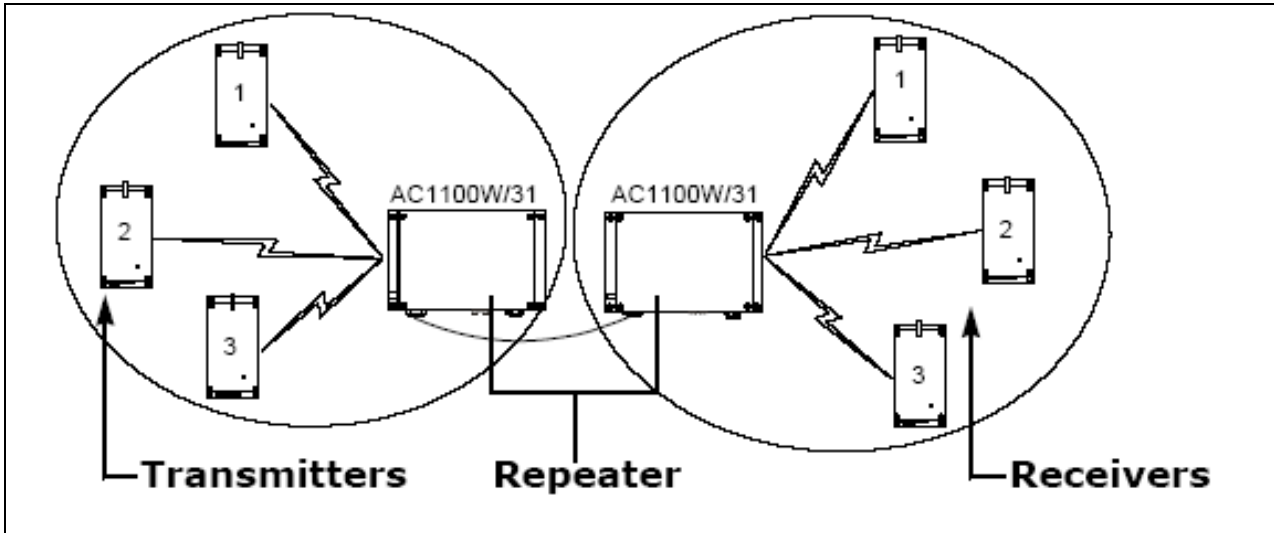
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- Video loss alarm;
- Effectively resolve the inherent problems in wireless networking products, like “hidden node”, QOS, transmission distance, safety and etc and is compatible with the standard 802.11 access point;
- Compatible with SmartSight network server, nDVR and Ndvr Pro;
- Provide a friendly interface for system management.

**Application and System Connection:**



**Technical Specification:**

Network	
Wireless interface	Alltech SPCF
Frequency	2.400-2.4835GHz(ISM) 5.250-5.350(U-NII-2) 5.725-5.825(U-NII-3/ISM)
Modulation	OFDM
Output Power	17dBm
System Gain	2.40-2.4835GHz with 8.5 dBi gain antenna:118dB 2.40-2.4835GHz with 16 dBi gain antenna: 133dB 5.250-5.350GHz with 13 dBi gain antenna: 132dB 5.725-5.825GHz with 13 dBi gain antenna: 129dB 5.725-5.825GHz with 18 dBi gain antenna: 139dB



## AC1100W Wireless Video Server

Transmission Range (RF Line-of-sight)	2.40-2.4835GHz with 8.5 dBi gain antenna:1.9miles(3.1km) 2.40-2.4835GHz with 16 dBi gain antenna:8.7miles(14km) 5.250-5.350GHz with 13 dBi gain antenna:4.4miles(7.1km) 5.725-5.825GHz with 13 dBi gain antenna:2.85miles(4.6km) 5.725-5.825GHz with 18 dBi gain antenna:7.15miles(11.5km)
Data rate (max.burst rate)	6,9,12,18,24,and 36 Mbps
Channel	2.4GHz: 11,3 non-interfering 5.3GHz: 4,non-interfering 5.8GHz: 5, non-interfering
Encryption	128-bit AES with auto key rotaton
Protocols	RTP/IP,UDP/IP,TCP/IP, or multicast IP,DNS and DHCP client,HTTP 1.1(web server)
Security	SSL-based authentication
<b>Video</b>	
Input	1 composite,1Vpp into 75 ohm (NTSC/PAL)
Compression	MPEG-4 (480 lines resolution)
Frame rate	1-30 fps programmable (up to 60 fields per second)
Motion Track	Probability of deduction greater than 96% Nuisance alarm rate
<b>Alarm and audio</b>	
Alarm	Input: 2 dry contracts (1mA max.) Output:1 relay contact (up to 48V at 100mA)
Bidirectional audio	Input:0 dBm into 600 ohm Output:-8 dBm into 600 ohm
<b>Serial Port</b>	
Electrical Levels	Autolevel sensing RS-232 or RS422/485
Operating mode	Transparent (support any asynchronous PTZ serial protocol)
<b>Power</b>	
Input voltage	24V/AC +/-10% (optional 12V/DC )
consumption	12W (970 mA at 12V/DC) 28VA at 24V/AC
<b>Physical</b>	
Enclosure	NEMA 4x/IP 66 power coat painted die-cast aluminium with wall-mount brackets
Size	(in):9.0L x 3.9W x3.8H; (mm):230L x 100W x 96H
weight	1.65kg
Enviromental	-30Cto 50C
Humidity	100% at 50C

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