

# WIRELESS VIDEO & CAMERA CONTROL SYSTEMS

## AIR GUARD SERIES



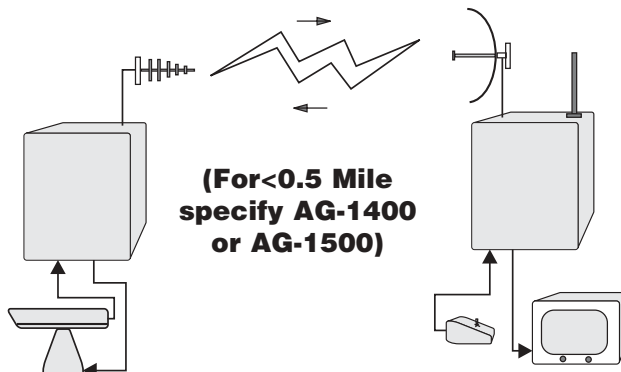
VIDEO TX & DATA RX  
(at camera)

**AG-1400 & 1500**



VIDEO RX & DATA TX  
(at monitor)

The Air Guard series of Wireless Video & P/T/Z Control Systems have been developed specifically for use in professional CCTV installations. These units include both wireless video as well as wireless P/T/Z control systems housed in NEMA enclosures and come completely assembled and ready to install.



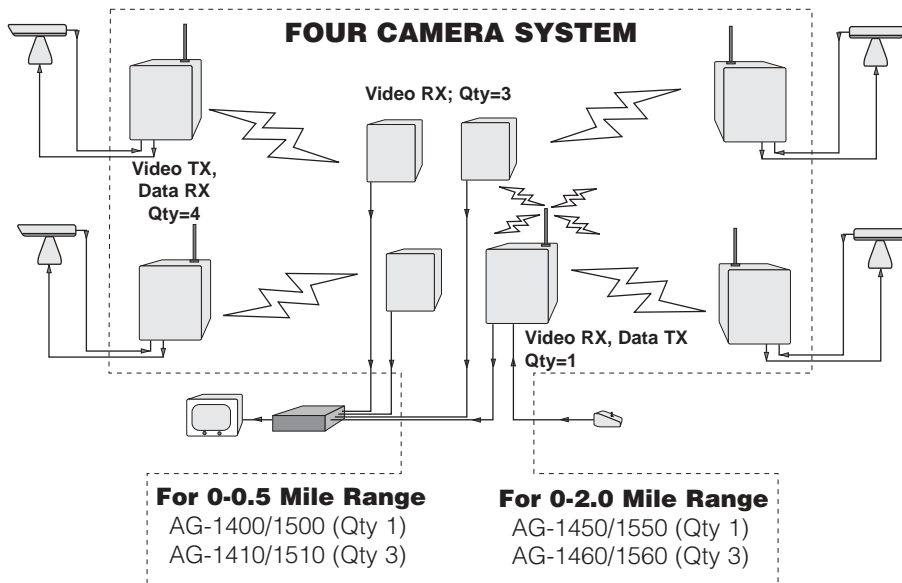
### BENEFITS

- Cost Savings: By eliminating the need for costly labor & materials to install cable.
- Multi-Camera Installations: These systems have been specifically designed to allow multi-camera installations.
- Immediate Installation: These systems are typically available within a short time of ordering and are easily installed.
- Technical Support: Experienced technical support is available from Premier from bid phase through installation.

### 2.0 Mile System with Video & PTZ Control AG-1450/1550

#### FEATURES:

- Full motion color video & P/T/Z control;
- Complete with antennas in 0.5 & 2.0 mile configurations;
- Standard 120 VAC with 24 VAC option;
- Standard RS-422/485 data format with RS-232 option;
- Completely assembled in NEMA 4X enclosures;
- No user license required (FCC Certified under Part 15)



# 2.4 GHz AG-1200 (VIDEO ONLY) + 1400 (VIDEO + P/T/Z)

## Support

In the past the ability to successfully install a wireless system has been somewhat of a mystery to many. Premier Wireless has taken the mystery out of wireless by offering superb support and products with the best performance and features. To take the mystery out of your next installation we suggest you take advantage of the following support capabilities at Premier Wireless.

- Involve Premier at the bid phase. We will guide you through a preliminary site survey as well as help determine which P/T/Z or dome model of your camera manufacturers product would work best and of course help specify the correct Air Guard systems (available at no cost).
- Review the Premier Wireless "Installation Guide for Wireless CCTV Systems" prior to starting installation and request a technical review by Premier of your specific installation (available at no cost).
- Immediately contact Premier Wireless if there are problems during or subsequent to the installation; we have technical personnel on hand with years of field experience installing wireless systems (available at no cost).
- If necessary Premier can provide field support, either through our field sales reps or factory technical personnel.

- Surveillance at Sea Ports and other ports of entry by commercial and customs organizations.
- Public surveillance in high crime metropolitan areas by law enforcement organizations.
- Surveillance on large corporate campuses.
- Traffic monitoring by federal, state and local transportation agencies.

One of the distinct advantages of using wireless is that when required the camera locations can easily be moved, something not possible with hard-wired installations.

## Compatibility

Air Guard systems are compatible with the P/T/Z control of all major camera manufacturers, included but not limited to:

Kalatel  
Panasonic  
Pelco  
Phillips  
Sensormatic  
Vicon

*Note:* Any model of these manufacturers that provide a standard RS-232 or RS-422/485 interface will work with the Air Guard systems. Other models may require special converters to change their control signals to meet RS-232 or RS-422/485 standard.

## Applications

Air Guard systems can be used in any CCTV application. Because of their performance and features they are found in many large multi-camera projects. These include:



**VIDEO RECEIVER**  
(at monitor)



**VIDEO TRANSMITTER**  
(at camera)



**VIDEO RECEIVER**  
(at monitor)

**AG-1200 & 1300**

**AG-1250 & 1350**

# 5.8 GHz AG-1300 (VIDEO ONLY) + 1500 (VIDEO + P/T/Z)

## New Features

## simplify wireless CCTV projects (AG-1300 & 1500 only)

The AG-1300 & 1500 use the 5.8 GHz ISM band that is virtually unused by other equipment at the present time. Interference problems that made the 900 MHz band unusable for video and the 2.4 GHz band difficult in dense urban environments are virtually non-existent. Large multi-camera projects are easier using the 10 independent transmission channels combined with Premier's antenna technology. It is now possible to install over 40 wireless cameras at one location.

Using the "System Test" mode simplifies the whole installation process. In System Test the video transmitter will transmit status information to the video receiver on a sub-carrier. This will minimize the number of "trips up the pole" to optimize system performance.

Available on the AG-1300 & 1500 are four (4) contact inputs to the transmitter which are relayed to the receiver. These contacts can be used for monitoring gate openings, video motion detection and many other similar applications.

## Multi-Camera Projects:

Air Guard systems are ideal for use in large multi-camera projects. Each system includes a video transmitter and receiver. P/T/Z control is accomplished with point-to-multipoint data transmission. Only one data transmitter is required at each site (located at the control center), and

one data receiver at each camera. The camera "joystick" controller sends a camera address with each command, but only that camera being addressed will respond. All Air Guard models have a data receiver but only some have a data transmitter. In the "How To Order" section on the back page "1st Camera" models have a data transmitter, "additional camera" models do not. Select a "1st Camera" model for your longest link and "additional camera" models for every other link (see illustration on first page).



CS-300 Wireless Video System (5.8 GHz)

NOTE: See photos on back for Receiver Dish on AG-1525, 1535, 1550 & 1560



VIDEO RX & DATA TX  
(at monitor)



VIDEO TX & DATA RX  
(at camera)



VIDEO RECEIVER  
(at monitor)

AG-1450 & 1550

AG-1460 & 1560

# HOW TO ORDER

## VIDEO ONLY

	0-1/2 Mile	0-1.0 Mile	0-2.0 Mile
AG-1200			AG-1250
AG-1300	AG-1325		AG-1350

## VIDEO & P/T/Z

	0-1/2 Mile	0-1.0 Mile	0-2.0 Mile
1st Camera	AG-1400		AG-1450
Add'l Cameras	AG-1410		AG-1460
1st Camera	AG-1500	AG-1525	AG-1550
Add'l Cameras	AG-1510	AG-1535	AG-1560

**Option A:** 24 VAC Power Input

**Option B:** RS-232 only

**Option C2:** Add audio for 2.4 GHz systems

**Option C5:** Add audio for 5.8 GHz systems

**Option D2:** Full duplex data, AG-1400, 1450, 1500, 1525, 1550

**Option D1:** Full duplex data, AG-1410, 1460, 1510, 1535, 1560

**Option E:** 12 VDC Power Input

### EACH SYSTEM INCLUDES;

- 2 NEMA Enclosures; (with Heaters & Fans)
- Video (& Data) Transmitters & Receivers
- Antennas & Cables • Pole Mounts

## AG-1410/1510



VIDEO RECEIVER (at monitor)



VIDEO TX & DATA RX (at camera)

# Specifications

## Video I/O

Signal Formats .....NTSC & PAL  
 Input Level .....1.0 Volt p-p  
 Output Level .....1.0 ± .2 Volt p-p  
 Impedance .....75 ohms  
 Connector .....BNC

## Data I/O (For P/T/Z Control)

Baud Rate .....38.4 Kbps,max  
 Half Duplex RS-422  
 Control Lines .....Tx +/-, Rx +/-, GND  
 Transmission Delay .....15 msec  
 Data Connector .....Screw Terminals

## RF System (For P/T/Z Control)

Output Power .....725 mW, max  
 BER .....10E-6 @ -92 dBm  
 Receiver Sensitivity .....-100 dBm  
 Signal Acquisition Time .....8.0 msec  
 Operating Frequency .....902 - 925 MHz  
 Radio Technique .....DSSS  
 Channels .....21 User Selectable

## Microwave System

Radiated Power .....FCC Part 15  
 Modulation .....FM

### Model 1300 & 1500 (5.8 GHz)

Operating Frequency .....5725 - 5875 MHz  
 Channels (User Selectable) .....10  
 (14.75 MHz channel bandwidth)  
 Channel Frequencies

5733.75 MHz	5807.50 MHz
5748.50 MHz	5822.25 MHz
5763.25 MHz	5837.00 MHz
5778.00 MHz	5851.75 MHz
5792.75 MHz	5866.50 MHz

### Model 1200 & 1400 (2.4 GHz)

Operating Frequency .....2400 - 2483 MHz  
 Channels (User Selectable) .....4  
 (20 MHz channel bandwidth)  
 Channel Frequencies

2412.5 MHz
2432.5 MHz
2452.5 MHz
2472.5 MHz

## Controls & Indicators

(5.8 GHz wireless video only)  
 Channel Change .....Push Button  
 System Test .....Push Button (TX Only)  
 RSSI Level .....Push Button (RX Only)  
 LED Indicators  
 TX & RX .....Channel & Low  
 Supply Voltage  
 TX Only .....No Video Input  
 & System Test  
 RX Only .....RSSI Level

## Contact I/O (5.8 GHz wireless video only)

Number of Input .....4  
 Input .....5 V Logic (normally high)  
 or Contact (open or close)  
 Output .....5 V Logic, 10 mA max  
 Connectors .....Screw Terminals

## Mechanical

Weight (per enclosure)  
 1200 & 1300 Series .....8.5 lbs  
 1400 & 1500 Series .....13.5 lbs

## Dimensions (each enclosure)

1200 & 1300 Series .....11.5" x 13.5" x 5.5"  
 1400 & 1500 Series .....13" x 15" x 6"

## Environmental

Operating Temperature .....-20° C to +65° C  
 Storage Temperature .....-50° C to +85° C

## Power

Input Voltage .....120 VAC 24 VAC 12.0 VDC  
 Input Current (max)  
 1200 & 1300 Series 0.2 A 0.7 A 1.4 A  
 1400 & 1500 Series 0.5 A 1.3 A 2.2 A



AH-80 Rx Dish for AG-1550/1560



AH-82 Rx Dish for AG-1525/1535

