

Ultra•Post® VI (AMS-1014)

Installation Guide



ZS1014-P, ZS1014-S
TYPE: AMS-1014 MODEL: AMS-USUP

Contents

About this Guide	1
To the Installer	1
About the Product	2
Installation Requirements	4
Installing the Mounting Base	8
Connecting Options	10
Connecting a Secondary Pedestal	12
Connecting an Auxiliary Receiver	14
Connecting to an UltraLink	14
Connecting Remote Alarms	15
Connecting Power	16
Adjusting the Alarm Volume	17
Testing	17
Covering the Antenna Cables	17
Installing Crash Parts	18
Specifications	19
Declarations	20

PRELIMINARY

Do Not Discard!

Document may be needed by code inspectors.
Leave it at the site until the installation is
complete and the system has been approved.

About this Guide

This installation guide explains how to install the Ultra•Post VI (AMS-1014) detector. Other related documents are:

- Planning Guide, 8000-2595-03 (Rev F or later)
- Setup and Service Guide, 8000-2595-07 (Rev F or later)
- Reference Guide, 8000-2595-08 (Rev I or later)
- Install Guide, Ultra•Post People Counting 2 Option, 8000-2595-31

Note: Because customer requirements dictate the placement of detector components, your Sensormatic representative will supply this information separately.

To the Installer



Regulatory Restriction: none.

Intended Use: Only install this device as described in this guide.

About the Product

The Ultra•Post VI detector activates an alarm when it detects the unique response of an active Ultra•Max® hard plastic tag or disposable label.

Features

The Ultra•Post VI detector is similar to the Ultra•Post IV detector; however it has the following additional features.

- Fan-less design for silent operation
- Improved noise immunity
- Hybrid-parallel design
- One design for world-wide use
- Auxiliary receivers have different connectors from the secondary pedestal so a secondary pedestal and two auxiliary receivers can be used at the same time.

Options

- People Counting 2 Option (ZPUP-PC2-CBLKIT, ZPUE-PCNTR2) – adds people-counting hardware to the primary and secondary pedestals.
- Interconnect Cable (ZPUP-IC6-4M, ZPUP-IC6-12M, ZPUP-IC6-15M) – connects a secondary pedestal to a primary pedestal.
- People Counting Cable (ZPUP-PCICBL-4M, ZPUP-PCICBL-12M, ZPUP-PCICBL-15M) – connects a people counting option in a secondary pedestal to a primary pedestal.
- Auxiliary receiver kits – extend the effective range of the detector. Supported kits are: Ranger Antenna Kit ZKRANGER-1, Satellite Antenna ZKRXMULLMT, and Amorphous Core receivers.
- Noise canceling receivers (ZKNC-R) – improve detection performance in high-noise environments.
- Crash Kit (0100-1089-01) – protects the detector from damage by shopping carts.
- Wired Synchronization Kit (ZPUE-WSYNC) – connects a primary Ultra•Post VI to another primary Ultra•Post VI to prevent them from interfering with each other.

- Alarm Counter (ZPCOUNT) – provides a running count of the number of alarms detected; it is installed in the base of the detector.
- Poster Panel (ZPUP-PSTPANEL) – allows advertising material to be affixed to pedestal.

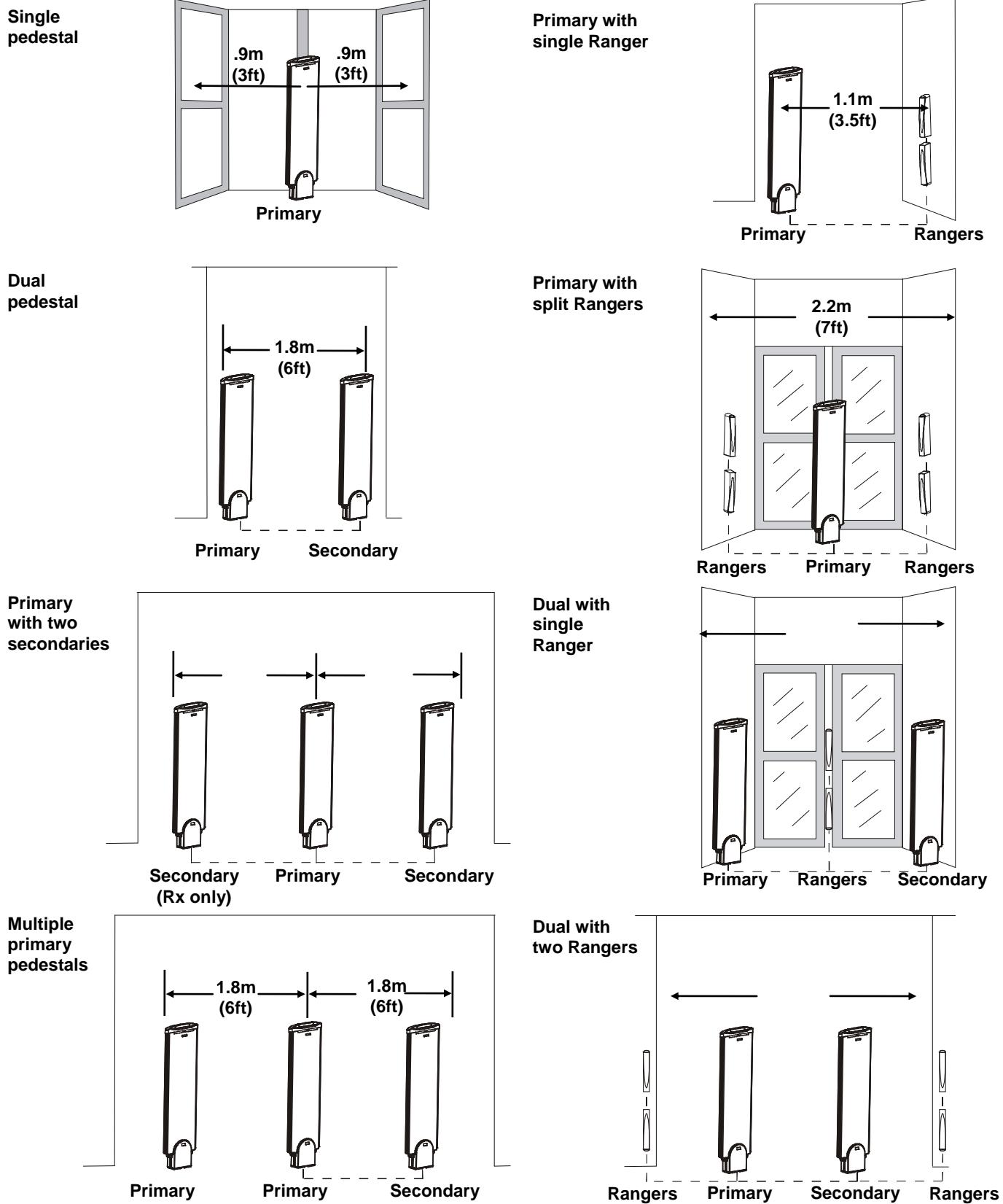
Detector Configurations

A primary pedestal alone, a primary and secondary pedestal, or a primary pedestal with auxiliary receivers can be configured to cover different exit widths and to adapt to different architectural requirements. An auxiliary receiver consists of either one Satellite antenna or two Rangers. The different combinations are listed below and shown in Figure 1.

1. Single pedestal. One primary pedestal provides up to 0.9m (3ft) of coverage. In certain situations, the pedestal can protect two side-by-side exits.
2. Dual pedestal. One primary pedestal and one secondary pedestal are connected together to protect an exit up to 1.8m (6ft) wide. This configuration can operate in the following modes: Dual-Alternating, Simultaneous, Alternating, Backfield Reduction, and Alternating Backfield Reduction.
3. One primary pedestal flanked by two secondary pedestals.
4. Multiple primary pedestals. Two primary pedestals with a secondary pedestal connected to one of the primary pedestals.
5. Primary pedestal with single auxiliary receiver. One primary pedestal and a single auxiliary receiver are connected together. This configuration can operate in Transceiver-Ferrite mode or Backfield Reduction mode.
6. Primary pedestal with split auxiliary receivers. One primary pedestal and two auxiliary receivers are connected together. This configuration can be operated in the following modes: Ferrite-transceiver-Ferrite, Primary-only (split), and Primary-only (split alternating).
7. Dual pedestals with one auxiliary receiver. One primary pedestal and one secondary pedestal are separated by an auxiliary receiver in between.
8. Dual pedestals with two auxiliary receivers. One primary pedestal and one secondary pedestal are flanked by two auxiliary receivers.

Not all coverage distances are shown. For information on coverage distances for other configurations and operating modes, refer to the Planning Guide.

Figure 1. Configurations



Installation Requirements

Verifying Equipment and Unpacking

- Verify that all equipment has arrived. Make sure the detector configuration is the right one for the installation site.
- Unpack major components in a back room. At the install site, lay out parts in the order you will need them. Do not clutter the aisle or cause a trip hazard.

Installer/Contractor

- Shall have electrical work comply with the latest national electrical code, national fire code, and all applicable local codes and ordinances. National or local wiring codes or rules may differ between regions. Adherence to these codes supersedes instructions in this document.
- Shall coordinate all work with other trades to avoid interference.
- Shall verify existing site conditions and coordinate with the owner's representative and appropriate utilities as required.
- Shall obtain copies of all related plans, specifications, shop drawings and addenda to schedule and coordinate related work.
- Shall thoroughly review the project to ensure that all work meets or exceeds the above requirements. Any alleged discrepancies shall be brought to the attention of Sensormatic Electronics.

Chemical Interaction



WARNING: DO NOT install this product in hazardous areas where highly combustible or explosive products are stored or used.

Detector Placement/Cabling



WARNING: DO NOT run the power and interconnect cable in the same conduit or raceway. Building codes require that power wiring be separated from other types of wiring.

- The AC source must be a 2 wire plus ground, 24-hour, unswitched outlet with less than 0.5Vac between neutral and ground.

For permanently connected equipment, a 15A or 20A, 2-pole, ganged disconnect device, which also provides short circuit and overload protection, and has a minimum 3mm open circuit clearance, in accordance with the National Electric Code and applicable local codes must be installed by a licensed electrician at a location readily accessible to the equipment.

- For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily acceptable.
- DO NOT share the ac source with neon signs, motors, computers, cash registers, terminals, or data communications equipment.
- DO NOT use orange-colored outlets dedicated for computer equipment.
- Replace fuses only with a fuse of the same type and rating.



CAUTION: For continued protection against risk of fire, replace fuse only with same type and rating.

- Whenever possible, keep the antennas at least 2.4m (8ft) away from noise sources such as computer monitors, TV's, switching power supplies, and neon displays.
- Maximum exit coverage of one primary pedestal is .9m (3ft).
- If the interconnect cable must be routed over the top of doors, the maximum cable distance between the pedestals is either 15m (50ft) or 12m (40ft), depending on which cable the pedestal has. (The 4m (13ft) cable is usually routed in the floor.)

Note: Maximum distance between the primary and secondary pedestals is 1.8m (6ft) measured from pedestal center to pedestal center. Minimum distance between two pedestals is .6m (2ft) measured center to center.

AMC-1060 Digital Remote Alarm

- Plug the 12V DC transformer used to power the alarm into a 24-hour, unswitched outlet.
- Maximum cable distance from the primary pedestal to each remote alarm is about 12.2m (40ft).

Tools and Equipment Required

- 0.15mm (6 mil) minimum plastic sheeting (to protect nearby items from dust)
- Permanent marker and/or pencil

- Hammer drill with 6.4, 9.5, and 12.7mm (1/4, 3/8, and 1/2 in.) masonry drill bits
- Power drill with 1.6, 6.4, and 9.5mm (1/16, 1/4, and 3/8in.) drill bits
- Floor saw
- Hammer
- Phillips and slotted screwdrivers
- Ratchet and socket set
- Utility knife
- Level
- Hand vacuum and broom

Additional Equipment Required

- Hard tag (non-deactivateable Ultra•Max tag) or Ultra•Max low energy labels
- Laptop computer with Windows® 95, Windows® 98, Windows® NT, Windows® 2000, or Windows® XP operating system
- RS-232 Ultra•Max programming cable
- ADS4 Platform configurator software version 7.10 or later

Implanted Medical Devices

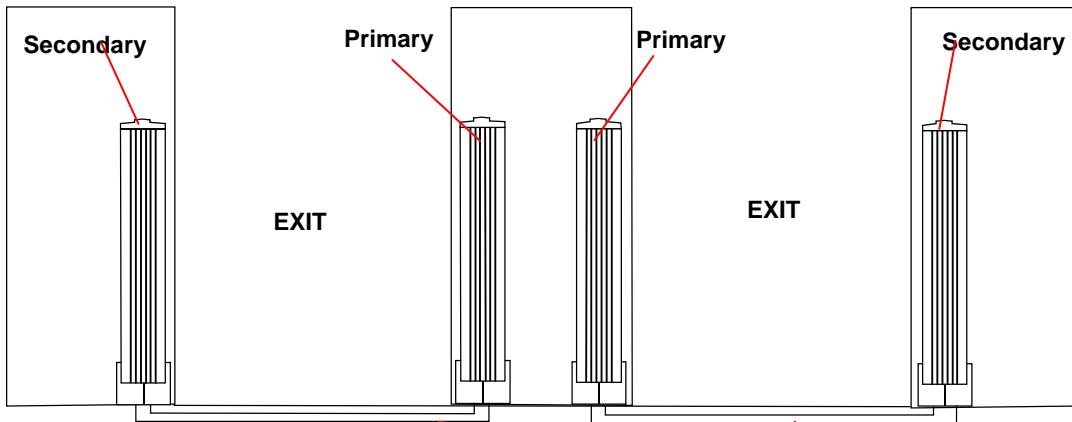
Although this anti-theft system complies with all applicable safety standards, place the system in such a way that customers:

- do not linger near or lean on its antenna(s) while making their purchase
- are only directly in front of the antenna(s) while exiting the checkout area.

If the country's language is different from English, apply "Anti-Theft" labels in the local language to the antennas. Labels in your local language (2412-0170-XX) can be ordered from your distribution center.

Figure 2. Ultra•Post (quad system) installation

SIDE VIEW

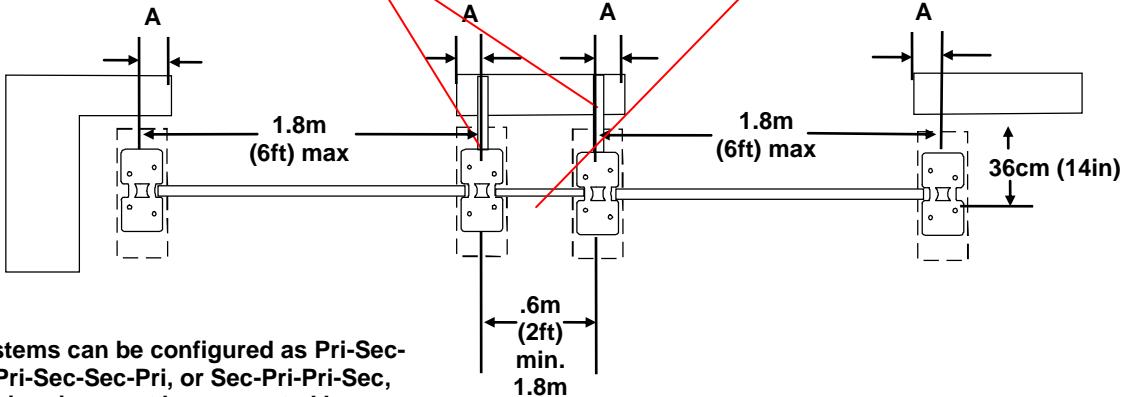


AC power - 3 wire, 24 hour circuit, hard wired. Conduit to stub up at designated locations and cut 2.5cm (1in) max. above finished floor.

TOP VIEW

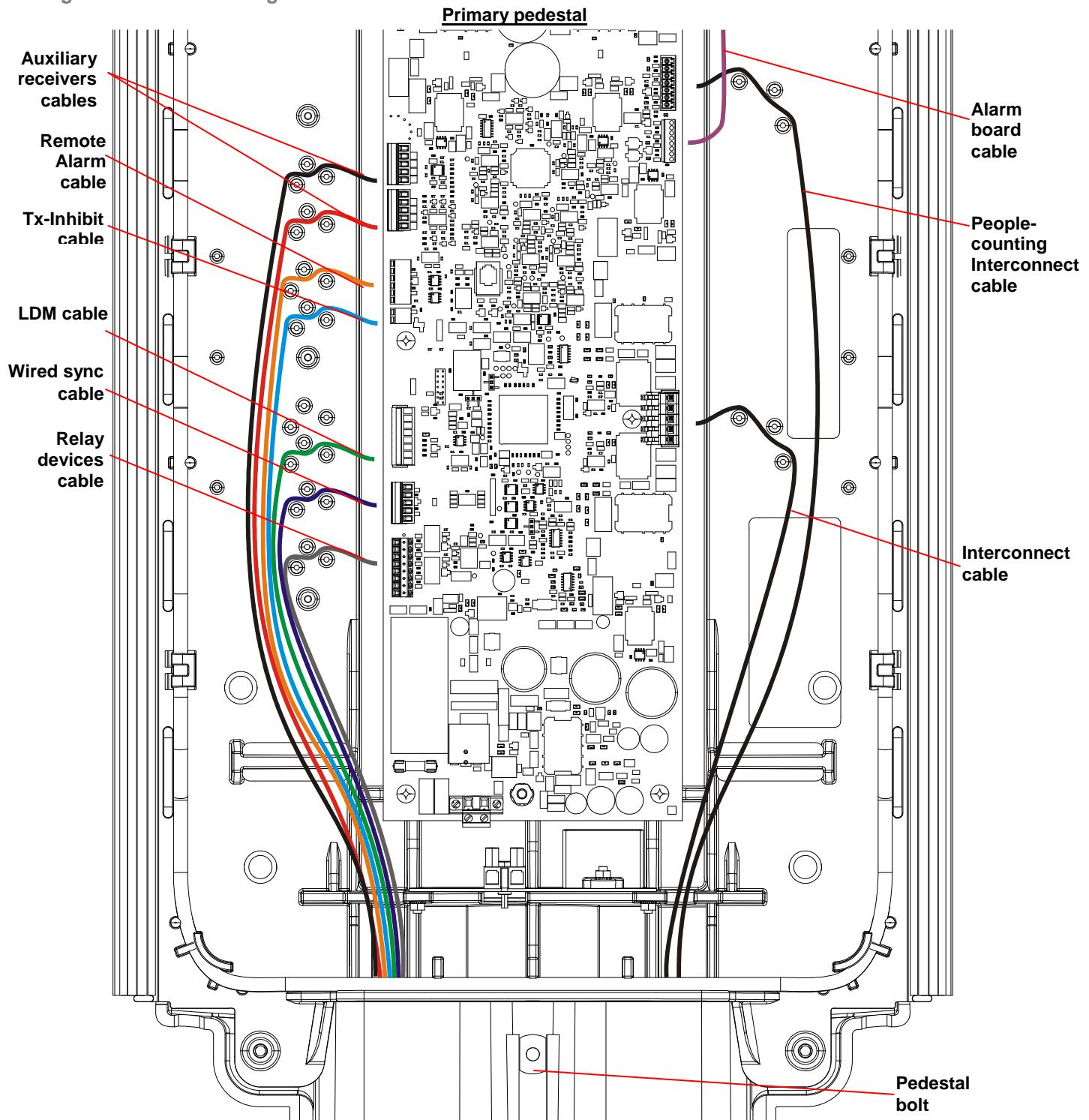
$A = 5\text{cm (2in)}$

Interconnecting conduit with pull wire
Wired synch cable is required when separate systems are close.



Quad systems can be configured as Pri-Sec-Pri-Sec, Pri-Sec-Sec-Pri, or Sec-Pri-Pri-Sec, but the primaries must be connected by wired synch and the correct parameters must be set with configurator.

Figure 3. Pedestal wiring



Note: When the cables are hidden from view they are represented by dashed lines.

Note: Cables are represented in different colors for clarity. Actual cable colors will vary.

Installing the Mounting Base

The pedestal is floor-mounted using either the four bolts and anchors supplied or other approved hardware. Cable openings in the base allow for cable entry from underneath the pedestal or from any of its four sides. Access can be through conduit or Wiremold.

1. Remove the covers from the pedestal(s).

Disengage two captive fasteners at base of each cover and lift the cover off by pulling its bottom out and down.

2. Note location of the power outlet or conduit stub where the primary pedestal is to be located.

WARNING: In accordance with the National Electric Code and applicable local codes, a 15A or 20A, 2 pole, ganged disconnect device, which also provides short circuit and overload protection, and has a minimum 3mm open circuit clearance, must be installed by a licensed electrician at a location readily accessible to the equipment.

3. Position the primary pedestal at the exact mounting location and remove the pedestal from its base.

Remove two bolts securing the pedestal to its base and lift the pedestal from its base. Set the bolts aside.

If no secondary pedestal is used, skip steps 4, 5, and 7.

4. Position the secondary pedestal no more than 1.8m (6 ft.) from the primary pedestal and remove the pedestal from its base.

Remove two bolts securing the pedestal to its base and lift the pedestal from its base. Set the bolts aside.

Note: The maximum distance between the primary and secondary pedestals is 1.8m (6ft) measured from pedestal center to pedestal center. The minimum distance between two pedestals is 0.6m (2ft) measured center to center.

Skip step 5 if the interconnect cable is to be routed overhead.

5. Cut a 1cm (3/8in) wide by 1cm (3/8 in) deep trench between the two pedestals using a floor saw.

6. Mark and drill the mounting holes.

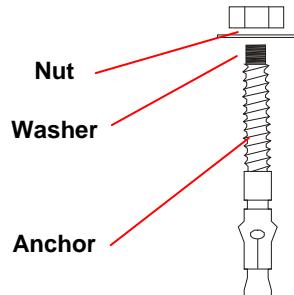
a. Place the mounting base at the exact location where the pedestal(s) is to be installed and mark the holes.

Note: The widely spaced holes should face toward the exit for easy access to the pedestal bolts.

b. Remove the mounting base.

c. Drill the holes for the mounting hardware. If you are using 1cm (3/8in) x 7.5cm (3in) wedge anchors in the ZPUE-PEDMTG kit, drill four holes 4.4cm (1 3/4in) deep using a 1cm (3/8in) masonry bit.

Wedge Anchor



TIP: If drilling through carpet, first mark holes then cut out carpet plugs where the holes will be. This prevents carpet runs.

Skip step 7 if only a primary pedestal is being installed.

7. Run the interconnect cable between the primary and secondary pedestals.

Pull the interconnect cable from the primary pedestal to the secondary pedestal and up through their bases. The interconnect cable can enter the base either through the strain-relief on the bottom of the base or from the center of the side.

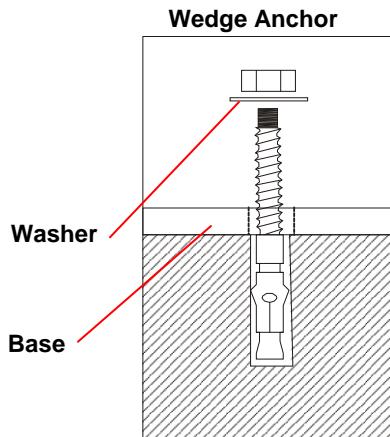
8. Level the base(s) and bolt it to the floor.

a. Make sure the base is level.

b. Insert the anchors into the holes. The supplied anchors can be removed if necessary. If using wedge anchors, tap the anchors into the holes.

c. Align the base over the holes.

- d. If using wedge anchors, put on washers and nuts and tighten the nuts.

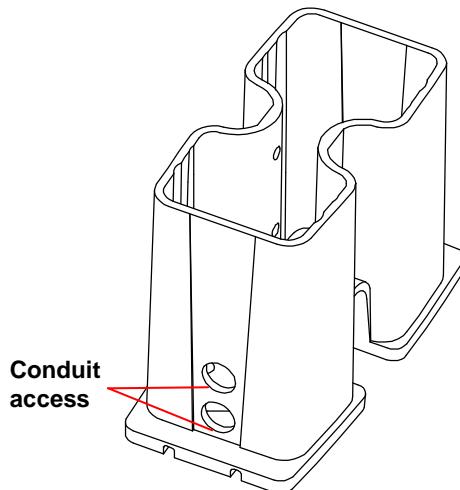


- 9. Route the AC cable to the primary pedestal through a conduit access hole in the base.



WARNING: RISK OF ELECTRIC SHOCK! The AC power line could be carrying 120Vac or 240Vac.

Figure 4. Mounting base



DO NOT run the power cable and the interconnect cable in the same conduit or raceway. Building codes require that power wiring be separated from other types of wiring.

The power cord, when used, must be routed through the appropriate slots under the base to provide strain relief.

Note: If running the cable through surface conduit, connect the conduit to the mounting base. Use knockouts in the pedestal covers for conduit access.

To remove a knockout, score the knockout several times with a utility knife on the inside (not outside) of the cover. Remove the knockout by breaking it from the outside of the cover inward.

- 10. If used, run the remote alarm cable up through the base of the primary pedestal.
- 11. Insert the pedestal onto the base. The pedestal electronics should face the side that is easily accessible for service, or the secondary pedestal, if it is used.
- 12. If you are installing this antenna in Japan and the Japanese regulatory label (0352-0398-02) has not been affixed, attach it to a flat surface, such as the side of the base of the pedestal.

Connecting Options

Connect any external options to the ports on the main board. Table 1 lists the ports on the main board and what options connect to them. Figure 5 displays the location of the ports and their pinouts.

The cables for the options are routed through the base and to the main board. Refer to Figure 3 for cable routing information.

For information on connecting a digital remote alarm, refer to the next section, **Connecting Remote Alarms**.

Table 1. Options and their ports

Port	Port Name	Connects to
P10	IR Input	Alarm boards in Primary and Secondary Pedestals
P24	RS-485 Client Network	Sensor Network Appliances (such as a Local Device Manager*) or Universal Sync
P8	Wired Sync	Nearby (1.8m (6ft)) Ultra•Post VI primary connected for wired synchronization
P5	Alarm Board	Alarm board in top cap of primary pedestal
TB2	RS-485 Peripheral Network	RS-485 devices such as Digital remote alarm or external People Counter
J1	Relays	Alarm counter option or external devices such as cameras
J2	Service	Service Configurator laptop (RS-232 communications)
P6 P7	Aux Receiver Ports 1 and 2	Auxiliary Receivers, such as Rangers
TB1	Transmit Inhibit	Transmit Inhibit hardware
P4	Secondary	Secondary pedestal

Figure 5. Main board pinouts

Aux Rec 2 (P7)

PinSignal

- 5 Ground
- 4 Antenna D2 Return
- 3 Antenna D2
- 2 Antenna D1 Return
- 1 Antenna D1

Aux Rec 1 (P6)

PinSignal

- 5 Ground
- 4 Antenna C2 Return
- 3 Antenna C2
- 2 Antenna C1 Return
- 1 Antenna C1

Peripheral Network (TB2)

PinSignal

- 1 RS-485 LO *
- 2 RS-485 HI *
- 3 GND
- 4 RS-485 LO*
- 5 RS-485 HI*
- 6 GND

Tx Inhibit connector (TB1) ***

- 1 – Inhibit
- 2 - Ground

RS-485 Network* (P24)

PinSignal

- 8 GND
- 7 GND
- 6 SYNC LO (B)
- 5 NOT USED
- 4 NOT USED
- 3 SYNC HI (A)
- 2 RS-485 LO *
- 1 RS-485 HI *

Wired Sync (P8)

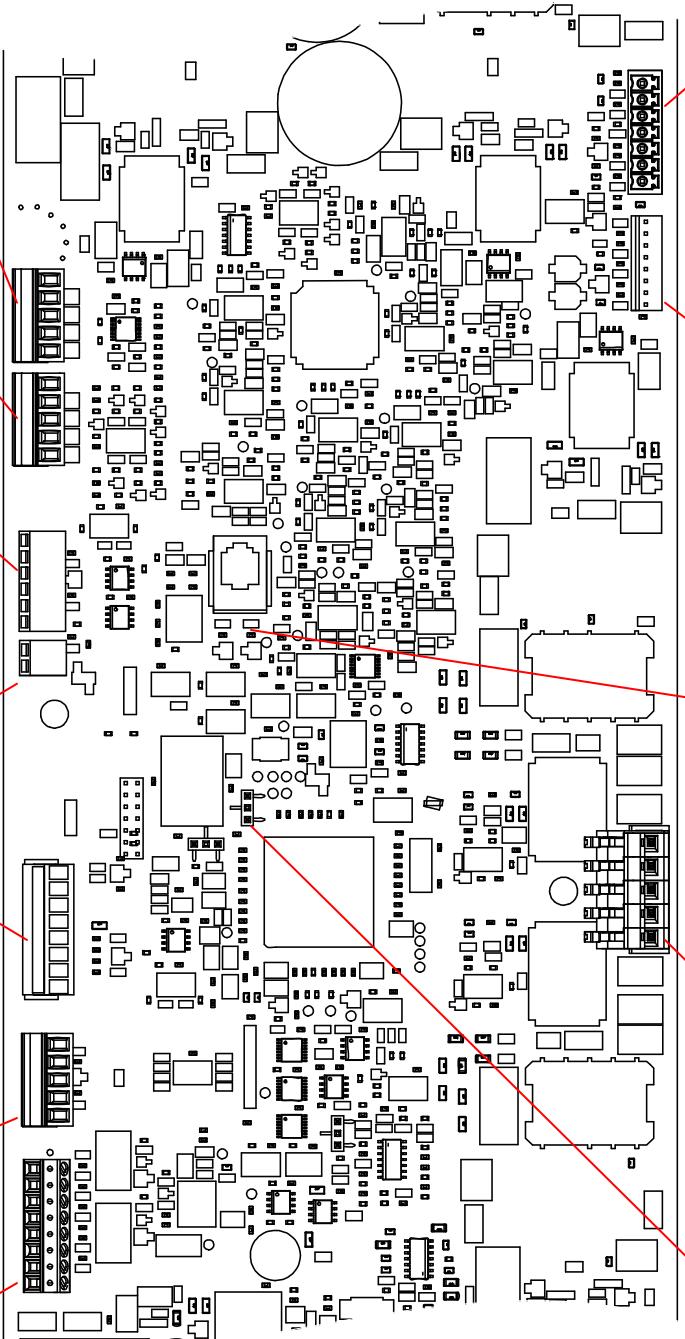
PinSignal

- 5 GND
- 4 WIRED SYNC ARM LO
- 3 WIRED SYNC ARM HI
- 2 RS-485 LO *
- 1 RS-485 HI *

Relays (J1)

PinSignal

- 1 Ground
- 2 Not Used
- 3 NO 2
- 4 ARM 2 (COM 2)
- 5 NC 2
- 6 NO 1
- 7 ARM 1 (COM 1)
- 8 NC 1



IR input (P10)

PinSignal

- 1 +12V
- 2 IR RX1
- 3 IR RX2
- 4 IR RX3
- 5 IR RX4
- 6 Digital Gnd
- 7 Chassis Gnd

Alarm Board (P5)

PinSignal

- 1 PWR LED-
- 2 ALARM CLK-
- 3 AUDIO
- 4 +12V
- 5 +5V
- 6 Ground
- 7 TX INHBT-
- 8 Ground

Service (J2)

PinSignal

- 1 RS-232 RX
- 2 RS-232 TX
- 3 GND
- 4 Not Used

Secondary (P4)

PinColor Signal

- 5 WHT TOP COIL
- 4 GRN TOP COIL RET
- 3 GND Ground
- 2 RED BOT COIL
- 1 BLK BOT COIL RET

**Flash Override **
(P18, pins 1 and 2)**

* The wire color code for RS-485 LO and HI signals varies from option to option. Connect RS-485 options by connecting the RS-485 LO wire to the RS-485 LO pin and the RS-485 HI wire to the RS-485 HI pin.

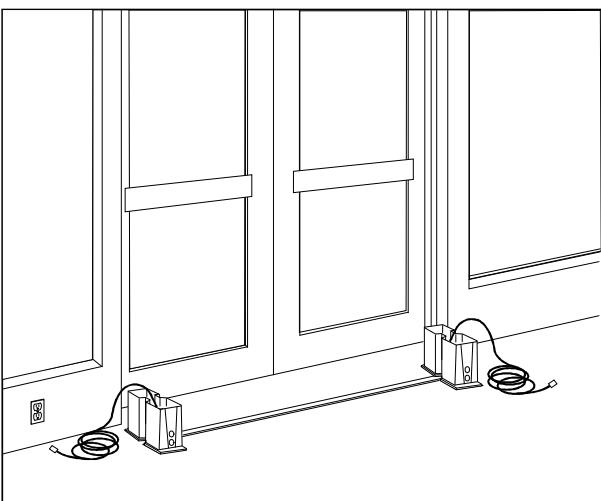
** To override the normal boot process, short pins 1 and 2 of connector P18. For more information, refer to the Ultra-Post Setup and Service Guide.

*** To inhibit the Transmitter, short the two pins of TB1.

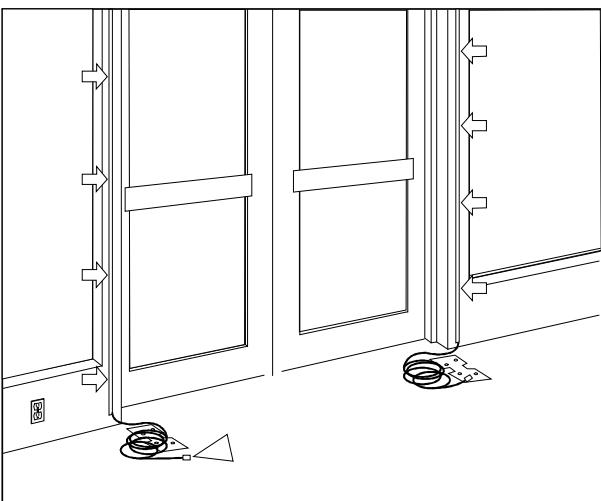
Connecting a Secondary Pedestal

If the detector has a secondary pedestal, you must connect it with the Ultra•Post VI Interconnect cable using the following procedure. (If you need to connect an auxiliary receiver, refer to the section entitled "Connecting an Auxiliary Receiver" on page 14.) The secondary pedestal can be connected one of two ways with one of three different cables.

- In the Floor – The Interconnect cable can be routed in a trench in the floor between the pedestals. Use the 4m (13ft) version (ZPUP-IC6-4M) of the interconnect cable.



- Over the Doorway – The Interconnect cable can be routed over the doorway; use either the 12m version (ZPUP-IC6-12M) or 15m version (ZPUP-IC6-15M) of the Interconnect cable.

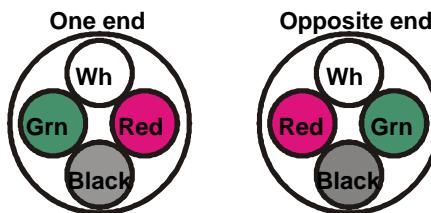


WARNING: RISK OF ELECTRIC SHOCK! Make sure the primary pedestal is disconnected from its power source before you proceed.

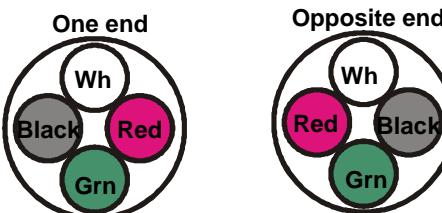
For all new installations of the Ultra•Post VI you should use the interconnect cable in the kit. If you are replacing an earlier version of the Ultra•Post, however, you may want to use the interconnect cable already buried in the ground. Although many older cables use cables similar to the cable in the kit, in some older cables the wires are arranged in the cable differently. If these cables are connected to the Ultra•Post VI in the same way as the Ultra•Post VI cables, the current at the antenna will be reduced. Instead, any older cables with a different arrangement of cables must be wired in a different arrangement. The procedure below explains how to connect both kinds of cables.

1. Look at the ends of the cable you will be using to see what order the wires appear in. (Both ends of the cable are shown because the wires appear in different order at each end.)

Arrangement of wires in Ultra•Post VI and some older cables



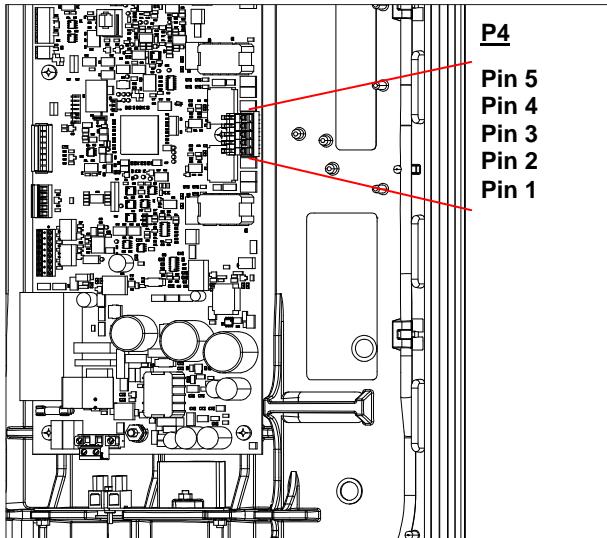
Arrangement of wires in some older Ultra•Post cables



2. Connect the interconnect cable in the primary pedestal.
 - a. Put the heat-shrink from the install kit over the shield wire and use a heat source to shrink the heat-shrink.
 - b. Connect the interconnect cable to the connector on P4 on the primary pedestal. (If you are connecting a second, receive-only, secondary pedestal to the same primary, connect it to Aux Receiver port 1 (P6).)

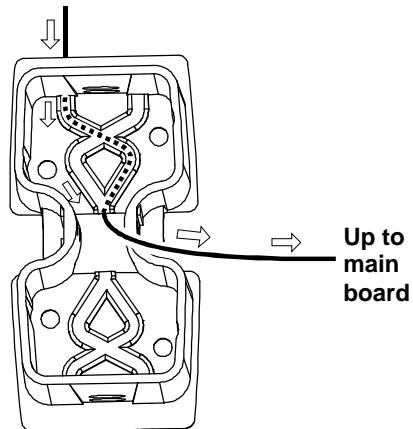
The table and illustration below shows how to wire the two types of cables.

Pin	1	2	3	4	5
UP6	Blk	Red	Shld	Grn	Wht
Other	Grn	Red	Shld	Blk	Wht



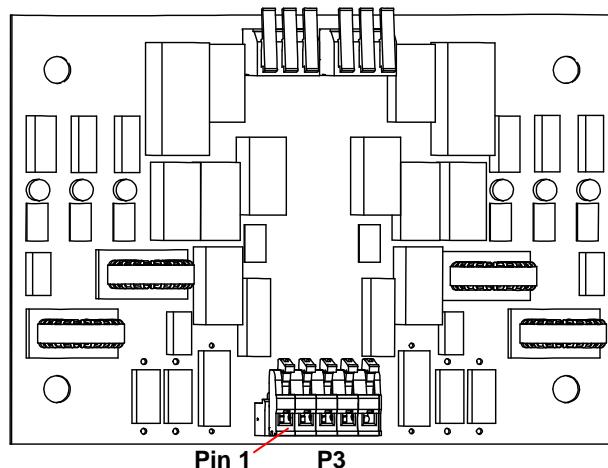
- c. Route the interconnect cable along the right side of the pedestal. Keep it away from the AC power cable.
3. Route the cable from the primary pedestal to the secondary pedestal. The correct route depends on whether the cable is routed in a trench between the pedestals or over a doorway.
 - If the cable is routed in a trench, route the cable out the base of the primary pedestal, through the trench, and up into the base of the secondary pedestal.

- If the cable is routed over a doorway, you can route the cable out the primary pedestal through the strain relief in the base, as shown below.



4. Connect the interconnect cable in the secondary pedestal.
 - a. Route the interconnect cable up through base.
 - b. Cut the cable to length if necessary, allowing 15cm (6in) of cable for future servicing.
 - c. Connect the interconnect cable to connector P3 in the secondary pedestal using the same order as the other end. Put the heat-shrink from the install kit over the shield wire and use a heat source to shrink the heat-shrink.

Figure 6. Interconnect terminal block

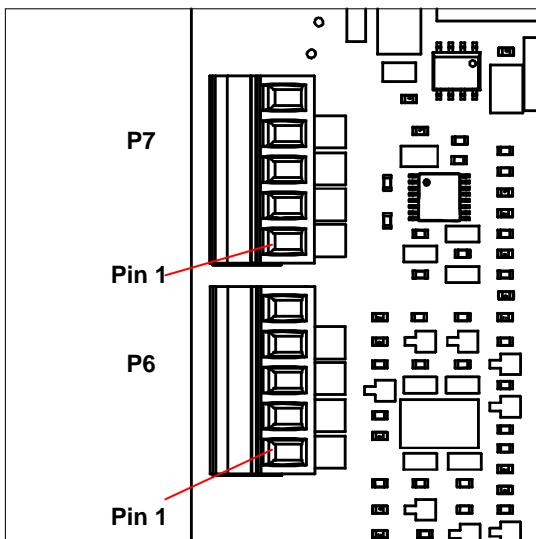


Connecting an Auxiliary Receiver

Auxiliary receivers are receive-only antennas, such as Rangers and Satellite Receivers, which extend the detection range of a primary antenna. You connect auxiliary receivers at ports P6 and P7 using the color code in the table below.



CAUTION: Satellite Receiver antennas are receive-only; transmitter current will damage them. Do not connect them to the Secondary connector at P4.



Connect the cable from the auxiliary receiver to connector P6 or P7 on the main board using the color code shown below.

Pin	Rangers	Satellite	Amorphous
1	Black	Black	Black
2	Red	Red	Red
3	Green	Black	Green
4	White	Red	White
5	Shield	Shield	Shield

Connecting to an UltraLink

You connect an RS-485 network device such as the UltraLink or Local Device Manager to the Ultra•Post VI at P24.

Pin	Signal	Color
1	RS485 Hi	Red
2	RS485 Lo	Black
5	Shield	Shield

For information on how to connect the other end of the cable to the RS-485 network device, refer to the CBC-4020 UltraLink Indoor Installation and Service Guide (8200-0172-01) or other appropriate device manual.

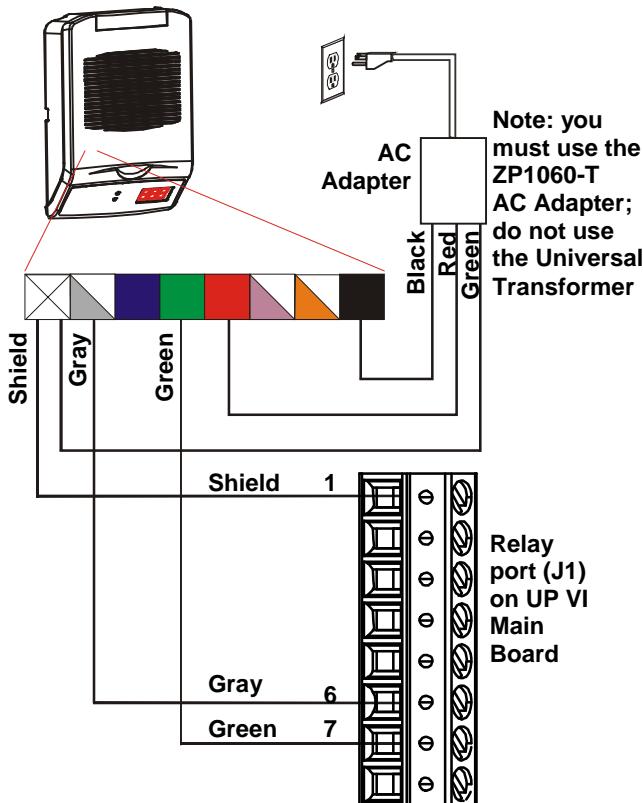
Connecting Remote Alarms

An Ultra•Post VI supports the use of the AMC-1060 digital remote alarm. The remote alarm can be connected in two ways on the Ultra•Post VI receiver board: to the RS-485 Peripheral Network connector at TB2 or the relay port at J1. (If you want to connect two pedestals to the same alarm, you must connect the remote alarm to the relay port.)

- **Relay port (J1)** - If you connect a remote alarm to the relay port as was done on some previous versions of the Ultra•Post, the remote alarm will alarm only on tag detection and will not support additional features such as Tags-Too-Close, Jammer Detect, and People Counting.

1. Route the alarm cable along the left side of the pedestal.
2. Connect the alarm cable to the remote alarm and to the receiver board at J1. See Figure 7 for connection information.

Figure 7. Remote alarm wiring (relay port)



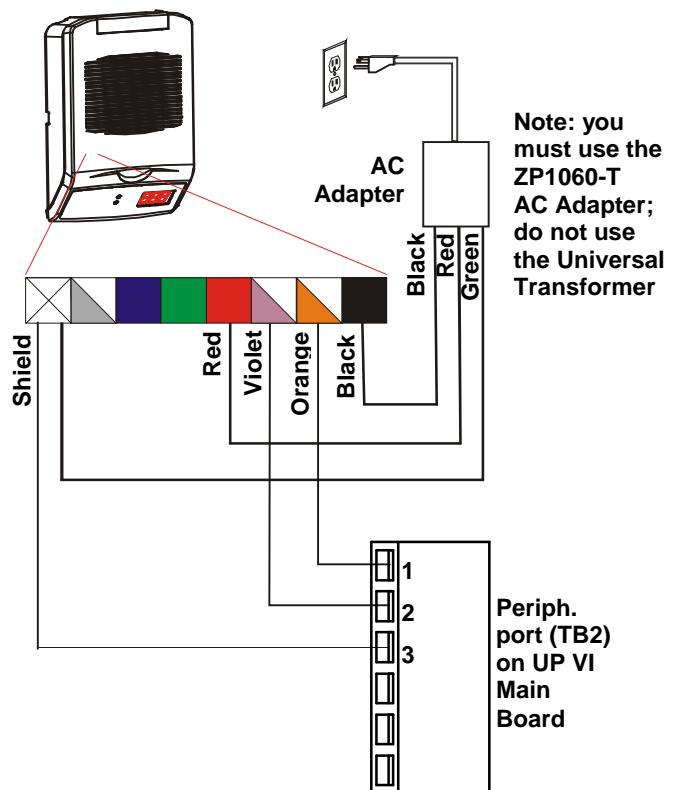
- **Peripheral RS-485 port (TB2)** – If you connect a remote alarm to TB2, the remote alarm supports all types of alarms (for example: Tags-Too-Close, Jammer Detect, and People counting).

1. Route the alarm cable along the left side of the pedestal.

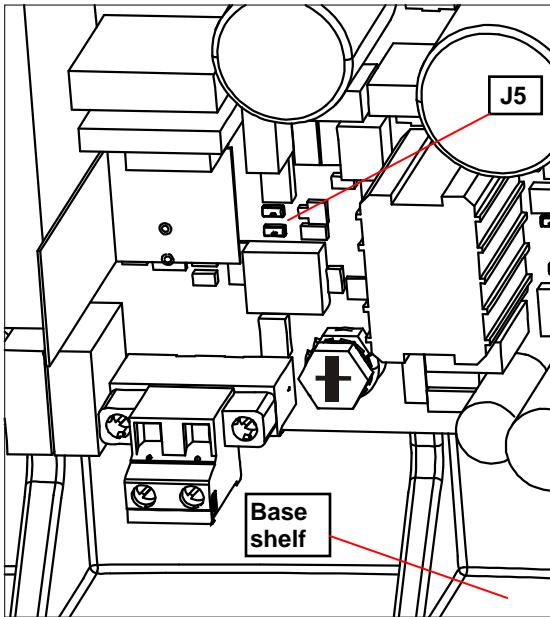
Note: The wire connecting the remote alarm to the pedestal must be shielded and the shield wire must be connected at both ends.

2. At the remote alarm, use connector 0304-2930-01 in the remote alarm installation kit. See Figure 8 for connection information.
3. At the receiver board, connect the cable to terminal block TB2. **Note:** You can also connect a remote alarm at pins 4, 5, and 6.

Figure 8. Remote alarm wiring (RS-485 port)



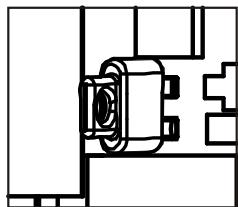
Connecting Power



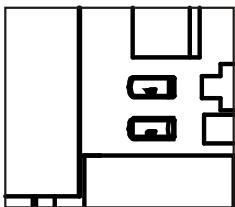
WARNING: RISK OF ELECTRIC SHOCK! Ensure that the system is not powered before moving the shunts.

1. Select the proper voltage for the site using the shunt (2109-0062-01) included with the kit. The default setting is 240Vac. The shunt is taped to the base shelf, indicated above.

120 Vac:
J5 shunt IN



240 Vac:
J5 shunt OUT

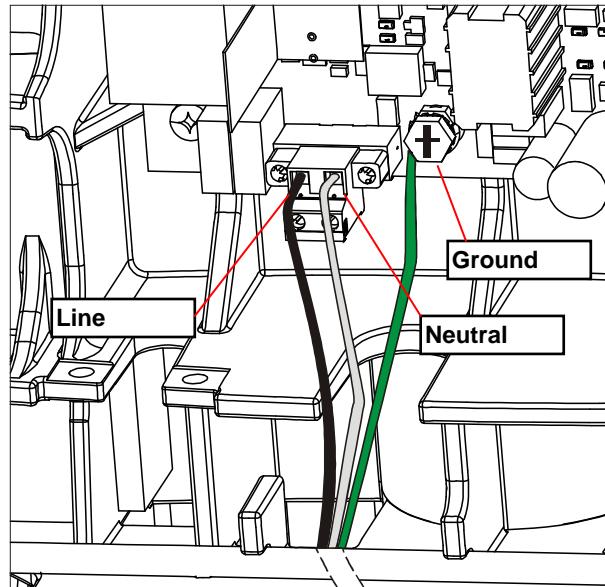


2. Connect the pedestal to AC power by hard-wiring a power cable to the pedestal.
 - a. Connect the AC power wires to the power connector on the main board in the pedestal as shown in Figure 9. The wires should be routed up the left side of the base.

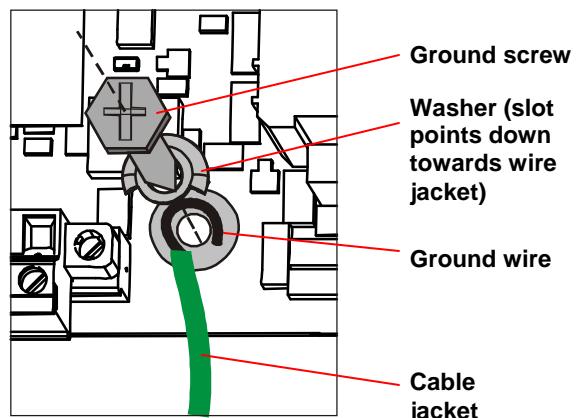
The power connector accepts 0.75 to 2.0 mm² (18 to 14 AWG) wire. Connect the Line wire (black) to L, the Neutral wire (white) to N, and the ground wire (green) to the screw on the main board, as shown below.

If you remove the connector, do not pull it out by the wires; pull on the connector.

Figure 9. Wiring the power connector



When connecting the ground wire, ensure the slot on the washer is pointing down to allow the jacket on the cable to fit behind the washer.

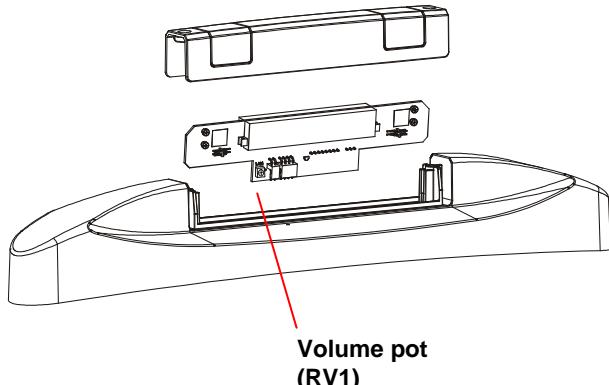


- b. Reinstall the bolts securing the pedestal to the base. Make sure you orient the bolt so that the head of the bolt is on the back side of the pedestal.

Adjusting the Alarm Volume

The Ultra•Post VI primary pedestal is shipped with the volume of the audio alarm set to a default value. To adjust the volume for the customer, do the following:

1. Remove the lens on the top of the pedestal by unscrewing the screws holding it down.
2. Lift up the alarm board until you can see volume potentiometer RV1.
3. Use a Phillips-head screwdriver to adjust the alarm volume to a suitable level.



4. Reinstall the alarm board and lens.

Testing

When you have finished installing the pedestal(s), check the performance of the system by doing a pick test.

When the system is operating correctly, reinstall the covers. The covers are interchangeable.

Reinstall each cover by slipping its top under the cap and then pressing the sides of the cover, working your way down the pedestal.



WARNING: The covers on the Ultra•Post VI pedestals are made of 5V rated material; you must not use covers from previous models of Ultra•Post as replacements. Ultra•Post VI pedestals are labeled with part number 0505-5032-01.

Once the cover is in place, secure it to the pedestal using the two fasteners. If you used round conduit to house the power cables, you may need to cut a portion of the cover away near the base.

When you remove the label on the base of the cover, make sure you clean off any residual glue.

Covering the Antenna Cables

If the antenna is operating correctly and you connected the primary and secondary pedestals with either an interconnect cable or people-counting interconnect cable, you must cover the cables with the proper fill, such as non-metallic, non-shrink, 5000-psi mortar or concrete.

The interconnect cable (0652-0551-01) uses cable part number 6002-0208-01. The people counting interconnect cable (0652-0428-01) uses cable part number 6002-0230-01. Both of these cables have been investigated and found suitable for direct burial in mortar and concrete.

An inspector may request the listing file number for the cables.

Sensormatic P/N	Listing File Numbers*	Vendor
6002-0208-01	E310330 or E108998 or E108842	Belden
	E118871	Tappan
6002-0230-01	E118871	Tappan

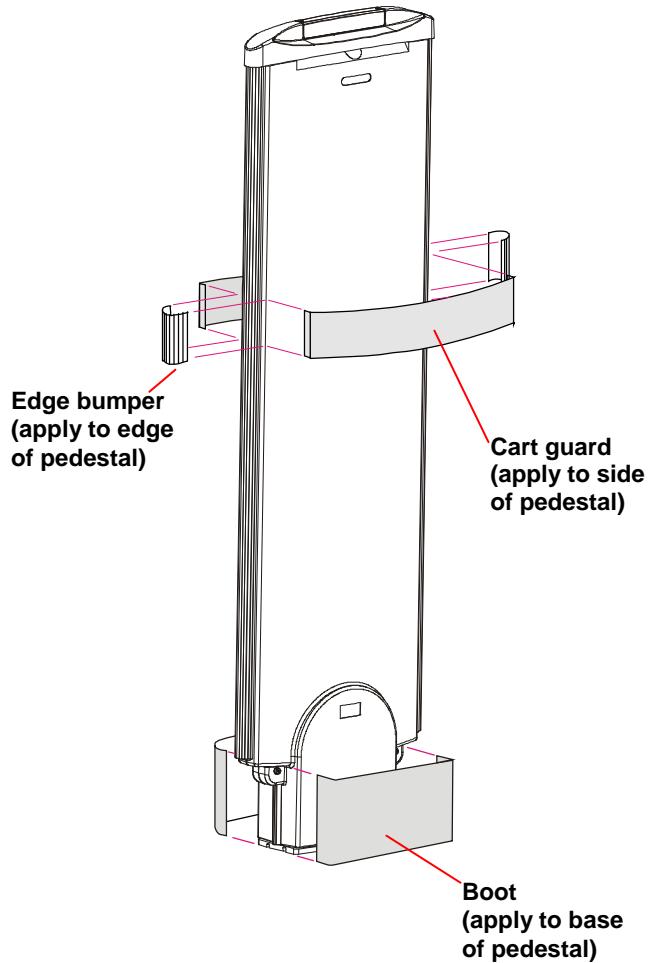
* The listing file number varies with the cable vendor and is printed on the cable.

Installing Crash Parts

To install two cart guards, two edge bumpers, and two boots to each pedestal, degrease all surfaces with alcohol, peel-off adhesive backing and press parts into place as shown (Figure 10).

Kit 0100-1089-01 is required. This kit contains all components necessary to equip one pedestal.

Figure 10. Crash parts



Specifications

Electrical

Power Supply (Primary pedestal)

Primary Input 100-120/200-240Vac
50-60Hz
1.4/0.8A

Primary Power Fuse 2.5A, 250V, 5x20, slow-blow, hi-breakage

Current Draw 1.2A_{rms}(120V)/0.66A_{rms} (240V)

Input Power (maximum)..... 100W

Transmitter

Outputs 1 port (two antennas, multiplexed)

Operating Frequency 58kHz (\pm 200Hz)

Transmit Burst Duration 1.6ms

Transmit Current (nominal) 37A peak

Burst Repetition Rate:

Based on 50Hz ac 37.5Hz/75Hz

Based on 60Hz ac 45Hz/90Hz

Transmit Coil Resistance 0.11 ohms (\pm 2%)

Receiver

Inputs 8 ports

Center Frequency 58kHz

Receive Coil Resistance 0.11 ohms (\pm 2%)

Alarm Alarm Relay Output DPDT contacts

Contact Switching Current 1.0A max.

Contact Switching Voltage 28V max.

Lamp/Audio Duration 1-30 sec.
(1 sec. increments)

Environmental

Operating Temperature 0° to 50°C (32° to 122°F)

Relative Humidity 0 to 90% non-condensing

Enclosure IPx0

Evaluated for altitudes <3200m (10500ft)

Mechanical

Primary Pedestal

Height 145cm (57in)

Width 41cm (16.1in)

Depth (base) 11.5cm (4.5in)

Weight 15.1kg (33.3 lb)

Secondary Pedestal

Height 145cm (57in)

Width 41cm (16.1in)

Depth (base) 11.5cm (4.5in)

Weight 14kg (30.9 lb)

Ranger Antenna

Height 24cm (9.5in)

Width 3.8cm (1.5in)

Depth 8cm (3in)

Weight 0.5kg (1 lb)

Declarations

Regulatory Compliance

EMC:.....47 CFR, Part 15
EN 300 330-2
EN 301 489-1
EN 301 489-3
EN 61000-3-2
EN 61000-3-3
ICES-003
RSS-210

Safety (second edition).....UL 60950-1
CSA-C22.2.60950-1

REGULATORY PRODUCT NAME:

TYPE: AMS-1014 REG ID : AMS-USUP

FCC ID: BVCAMSUSUP

FCC COMPLIANCE: This equipment complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits provide reasonable protection against harmful interference in a commercial or residential installation. This equipment can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one or more of the following: reorient or relocate the receiving antenna, increase the separation between the equipment and receiver, connect the equipment on a circuit different from that to which the receiver is connected, consult the dealer or an experienced radio/TV technician for help.

EQUIPMENT MODIFICATION CAUTION:

Equipment changes or modifications not expressly approved by Sensormatic Electronics Corporation, the party responsible for FCC compliance, could void the user's authority to operate the equipment and could create a hazardous condition.

INDUSTRY CANADA

Model: AMS-1014

IC: 3506A-AMSUSUP

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CANADIAN COMPLIANCE: This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Other Declarations

WARRANTY DISCLAIMER: Sensormatic Electronics Corporation makes no representation or warranty with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. Further, Sensormatic Electronics Corporation reserves the right to revise this publication and make changes from time to time in the content hereof without obligation of Sensormatic Electronics Corporation to notify any person of such revision or changes.

LIMITED RIGHTS NOTICE: For units of the Department of Defense, all documentation and manuals were developed at private expense and no part of it was developed using Government Funds. The restrictions governing the use and disclosure of technical data marked with this legend are set forth in the definition of "limited rights" in paragraph (a) (15) of the clause of DFARS 252.227.7013. Unpublished - rights reserved under the Copyright Laws of the United States.

TRADEMARK NOTICE: Ultra•Max, Ultra•Post, and Sensormatic are registered trademarks of Sensormatic Electronics Corporation. Other product names mentioned herein may be trademarks or registered trademarks of Sensormatic or other companies.

No part of this guide may be reproduced in any form without written permission from Sensormatic Electronics Corporation.

RWH 11/2011