

Apartment Entry System with Accessibility Features and Color Video



AES-2005S Surface Mount

The **AES-2005** Accessible Entry System provides both audio and visual assistance for those with disabilities, two-way handsfree audio communication and color composite video of who is at your door or gate entrance.

The LCD display with large 1/2" tall characters is back-lit and will display a directory of tenants as well as directions and prompts. A built in voice recorder and announcer can also provide a supporting audio message. When the EZ™ Access button is pressed, instructions on how to use the system are both displayed and announced.

The built in directory can support up to 525 tenant names and phone numbers and will dial a pre-programmed phone number

upon selection of a tenant. Once two-way communication has been established, the tenant can activate a remote door strike by entering a Touch Tone command. A second relay is also provided to operate an automatic door. The **AES-2005** will also support keyless entry at the door via its built-in keypad, or by adding Wiegand-type proximity card readers, such as the **Viking HID-1**.

The unit is available in flush (**AES-2005F**) and surface mount (**AES-2005S** shown) configurations and features a highly vandal resistant housing.

Note: This unit requires a PB-100 for programming.

Features

- Built-in high resolution color video camera with wide viewing angle, tilt/swivel adjustments and wide operating temperature of -15°F to 130°F
- 16 position, back-lit display with 1/2" tall characters
- Non-volatile digital voice announcer
- Factory configured to handle 75 apartments (expandable to 525 apartments using **ERAM-4M** expansion kits)
- Non-volatile data memory for names, phone numbers and access codes
- Volume control
- **AES-NET** card reader interface now included
- TTY jack for connection to personal teletypewriter (TTY)
- Postal lock switch input
- Available in surface mount (**AES-2005S**) or flush mount (**AES-2005F**) configurations
- Keyless entry capability
- 5 Amp door strike/magnetic lock control relays
- **Vandal resistant features:**
 - 12 gauge stainless steel front panel
 - 1/4" thick abrasion resistant polycarbonate display lens
 - Metal keypad and push button switches
 - Front panel lock
 - Speaker protection screen
- **Weather resistant features:**
 - Conformal coated circuit board
 - Gasketing behind lens, speaker, keypad and perimeter of front panel
 - Sealed switches and keypad

Applications

- High rise apartment buildings
- Condos
- Senior citizen buildings
- Assisted care centers
- Retirement homes
- Gated communities

Phone... 715.386.8861

<http://www.vikingelectronics.com>

Specifications

Power: 120V AC/13.8V AC 1.25A, UL listed adapter provided
Dimensions: **AES-2005S** (Surface mount): 317.5mm x 247.6mm x 107.9mm (12.5" x 9.75" x 4.25"), **AES-2005F** (Flush mount): 381mm x 317.5mm x 88.9mm (15" x 12.5" x 3.5")
Shipping Weight: 7.7kg (17 lbs)
Environmental: -26° C to 54° C (-15° F to 130° F) with 5% to 95% non-condensing humidity (see **Installation** for details)
Display: 16 position, 0.5" x 4.25" back-lit LCD
Relay Contacts: 5A @ 30V DC/250V AC max.
Connections: (14) cage clamp screw terminals, 3 gel-filled butt connectors (3M Scotchlok UR2)

(See page 2 for camera specifications)

IF YOU HAVE A PROBLEM WITH A VIKING PRODUCT, PLEASE CONTACT: VIKING TECHNICAL SUPPORT AT (715) 386-8666

Our Technical Support Department is available for assistance Monday 8am - 4pm and Tuesday through Friday 8am - 5pm central time. So that we can give you better service, before you call please:

1. Know the model number, the serial number and what software version you have (see serial label).
2. Have your Technical Practice in front of you.
3. It is best if you are on site.

RETURNING PRODUCT FOR REPAIR

The following procedure is for equipment that needs repair:

1. Customer must contact Viking's Technical Support Department at 715-386-8666 to obtain a Return Authorization (RA) number. The customer MUST have a complete description of the problem, with all pertinent information regarding the defect, such as options set, conditions, symptoms, methods to duplicate problem, frequency of failure, etc.
2. Packing: Return equipment in original box or in proper packing so that damage will not occur while in transit. Static sensitive equipment such as a circuit board should be in an anti-static bag, sandwiched between foam and individually boxed. All equipment should be wrapped to avoid packing material lodging in or sticking to the equipment. Include ALL parts of the equipment. C.O.D. or freight collect shipments cannot be accepted. Ship cartons prepaid to:
Viking Electronics, 1531 Industrial Street, Hudson, WI 54016
3. Return shipping address: Be sure to include your return shipping address inside the box. We cannot ship to a PO Box.
4. RA number on carton: In large printing, write the R.A. number on the outside of each carton being returned.

RETURNING PRODUCT FOR EXCHANGE

The following procedure is for equipment that has failed out-of-box (within 10 days of purchase):

1. Customer must contact Viking's Technical Support at 715-386-8666 to determine possible causes for the problem. The customer MUST be able to step through recommended tests for diagnosis.
2. If the Technical Support Product Specialist determines that the equipment is defective based on the customer's input and troubleshooting, a Return Authorization (R.A.) number will be issued. This number is valid for fourteen (14) calendar days from the date of issue.
3. After obtaining the R.A. number, return the approved equipment to your distributor, referencing the R.A. number. Your distributor will then replace the product over the counter at no charge. The distributor will then return the product to Viking using the same R.A. number.
4. **The distributor will NOT exchange this product without first obtaining the R.A. number from you. If you haven't followed the steps listed in 1, 2 and 3, be aware that you will have to pay a restocking charge.**

LIMITED WARRANTY

Viking warrants its products to be free from defects in the workmanship or materials, under normal use and service, for a period of one year from the date of purchase from any authorized Viking distributor or 18 months from the date manufactured, which ever is greater. If at any time during the warranty period, the product is deemed defective or malfunctions, return the product to Viking Electronics, Inc., 1531 Industrial Street, Hudson, WI., 54016. Customer must contact Viking's Technical Support Department at 715-386-8666 to obtain a Return Authorization (R.A.) number.

This warranty does not cover any damage to the product due to lightning, over voltage, under voltage, accident, misuse, abuse, negligence or any damage caused by use of the product by the purchaser or others.

NO OTHER WARRANTIES. VIKING MAKES NO WARRANTIES RELATING TO ITS PRODUCTS OTHER THAN AS DESCRIBED ABOVE AND DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

EXCLUSION OF CONSEQUENTIAL DAMAGES. VIKING SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE TO PURCHASER, OR ANY OTHER PARTY, FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATED TO THE SALE OR USE OF THE PRODUCT SOLD HEREUNDER.

EXCLUSIVE REMEDY AND LIMITATION OF LIABILITY. WHETHER IN AN ACTION BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR ANY OTHER LEGAL THEORY, ANY LIABILITY OF VIKING SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, OR AT VIKING'S OPTION, REFUND OF THE PURCHASE PRICE AS THE EXCLUSIVE REMEDY AND ANY LIABILITY OF VIKING SHALL BE SO LIMITED.

IT IS EXPRESSLY UNDERSTOOD AND AGREED THAT EACH AND EVERY PROVISION OF THIS AGREEMENT WHICH PROVIDES FOR DISCLAIMER OF WARRANTIES, EXCLUSION OF CONSEQUENTIAL DAMAGES, AND EXCLUSIVE REMEDY AND LIMITATION OF LIABILITY, ARE SEVERABLE FROM ANY OTHER PROVISION AND EACH PROVISION IS A SEPARABLE AND INDEPENDENT ELEMENT OF RISK ALLOCATION AND IS INTENDED TO BE ENFORCED AS SUCH.

FCC REQUIREMENTS

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. Inside the front panel of this equipment is a label that contains, among other information, a product identifier in the format US:AAEQ##TXXXX. If requested, this number must be provided to the telephone company.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive REN's on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of the REN's should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total REN's, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

The plug used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this AES-2005 does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

If the AES-2005 causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make

the necessary modifications to maintain uninterrupted service.

If trouble is experienced with the AES-2005, for repair or warranty information, please contact:

Viking Electronics, Inc., 1531 Industrial Street, Hudson, WI 54016 (715) 386-8666

If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to Party Line Service is subject to State Tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

WHEN PROGRAMMING EMERGENCY NUMBERS AND (OR) MAKING TEST CALLS TO EMERGENCY NUMBERS:

Remain on the line and briefly explain to the dispatcher the reason for the call. Perform such activities in the off-peak hours, such as early morning or late evenings.

It is recommended that the customer install an AC surge arrester in the AC outlet to which this device is connected. This is to avoid damaging the equipment caused by local lightning strikes and other electrical surges.

PART 15 LIMITATIONS

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Specifications

Camera Specifications

Power: 5-9V DC regulated 150mA (6V DC adapter included)

Image Sensor: 1/4" color CMOS

Video Output: 1 VP-P composite, NTSC, 75 ohms

Resolution: 420 lines (640 x 480 @ 30fps / 307,200 pixels)

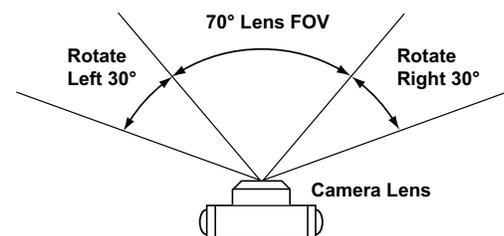
Sensitivity: 0.26 LUX (20 IRE) F 2.0

Lens: 3.4mm, pinhole 70° FOV (Field of View)

Tilt/Swivel Adjustment: Vertical +/- 20°, horizontal +/- 30° (see Diagram A)

Maximum Wire Run Length: 1000 ft with *RG59/RG6 for video and CAT5 for power (doubled pairs) and entry phone audio. 150 ft with CAT5E for video, power and entry phone audio (longer video runs are possible by using video balun transceivers, see Installation section D, page 5). * **Note:** RG59 or RG6 with solid center conductor and 95% bare copper braid shield.

Diagram A
Camera Field of View:

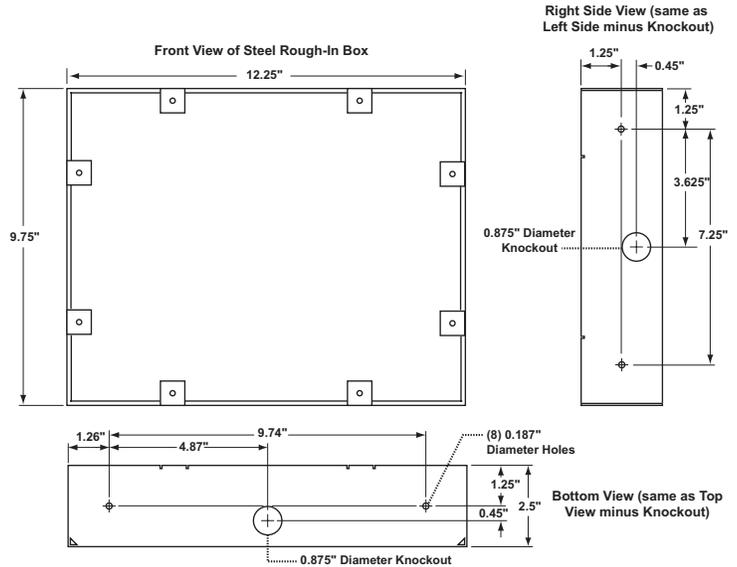


Installation

A. Flush Mount Chassis (AES-2005F)

The **AES-2005F** comes with a zinc-plated steel rough-in box and a black powder-painted steel mounting ring. The rough-in box is meant to be framed into the wall. Make sure the outer edge of the box is within 1/4 inch of the finished surface of the wall, but not protruding past the surface level. Knockouts are provided in the box to accommodate conduit entrance from the sides or bottom.

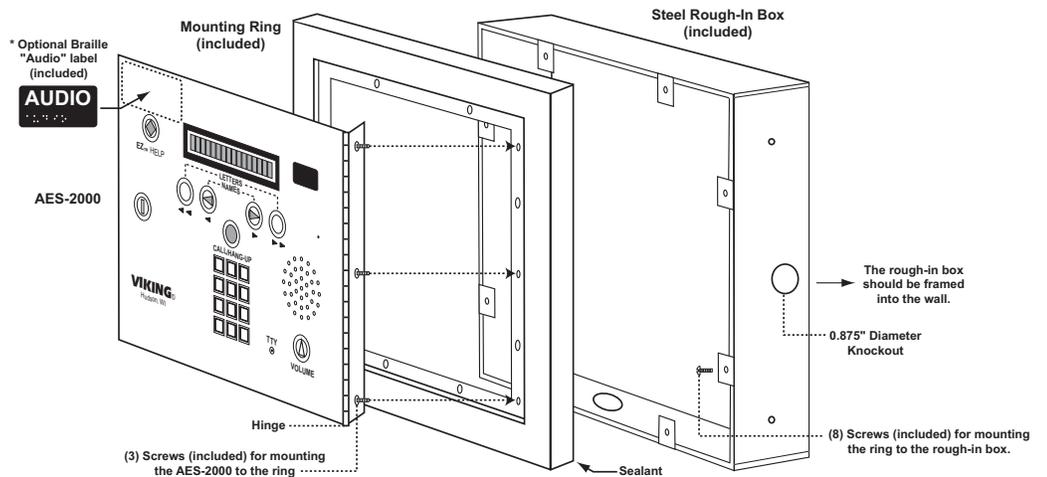
Important: The **AES-2005F** is rated to operate at temperatures up to 130 degrees Fahrenheit. If the unit is installed where it is exposed to direct sunlight, the front panel can exceed this maximum temperature. Above this specified maximum rating, the buttons will become hot for the tenants to press and the LCD display will go dark.



Step 1.	After the wall is finished, the mounting ring can be screwed to the rough-in box.
Step 2.	Once the mounting ring is secure, the front panel of the AES-2005S can be fastened to the ring using the 3 screws and nuts provided by aligning the hinge with the three holes on the right side of the frame. Note: Make sure the key lock is in the open position.
Step 3.	Insert the screws and tighten the nuts firmly. Note: Be careful not to damage the foam gasket around the back edge of the panel.

Important: If the enclosure is to be mounted outdoors, use an appropriate sealant around the outer edge of the mounting ring.

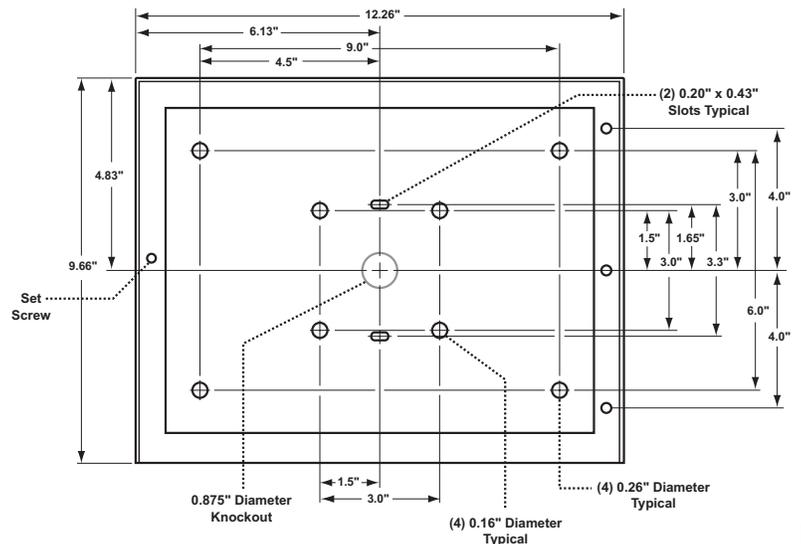
* **Note:** To help steer visually impaired visitors to the location of the **EZ™ HELP** button, the optional Braille "Audio" label may be adhered above the push button.



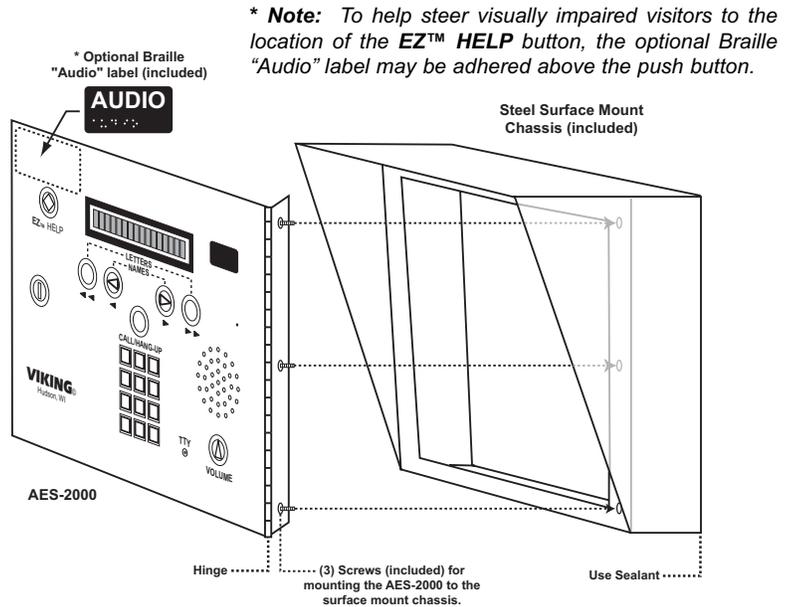
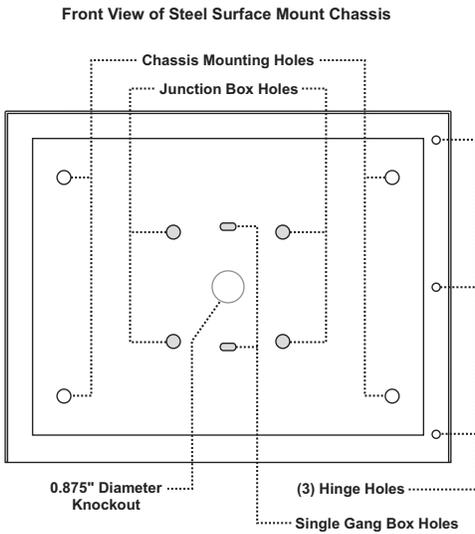
B. Surface Mount Chassis (AES-2005S)

The **AES-2005S** comes with a black powder painted steel surface mount chassis. A knockout is provided on the bottom of the chassis as an alternate wire entrance. The four outer holes on the back of the chassis are for mounting the box to the wall.

Important: The **AES-2005S** is rated to operate at temperatures up to 130 degrees Fahrenheit. If the unit is installed where it is exposed to direct sunlight, the front panel can exceed this maximum temperature. Above this specified maximum rating, the buttons will become hot for the tenants to press and the LCD display will go dark.

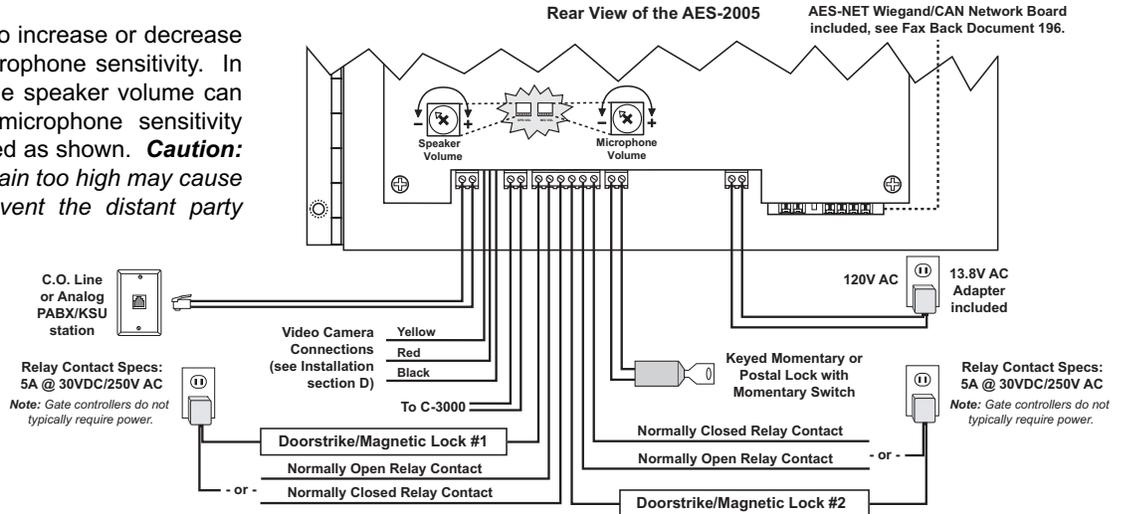


Step 1.	To mount the unit to a wall, unlock the panel using the key provided and swing the front panel open.
Step 2.	Use the single gang or junction box holes provided in the back of the enclosure for alignment.
Step 3.	Fasten the enclosure securely to the wall using the (4) outer chassis mounting holes. Important: If the enclosure is to be mounted outdoors, use an appropriate sealant between the enclosure and the wall.



C. Wiring Connections

Two POTs are provided to increase or decrease speaker volume and microphone sensitivity. In certain noisy locations the speaker volume can be increased and the microphone sensitivity may need to be decreased as shown. **Caution:** Setting the microphone gain too high may cause distorted audio and prevent the distant party from breaking over.

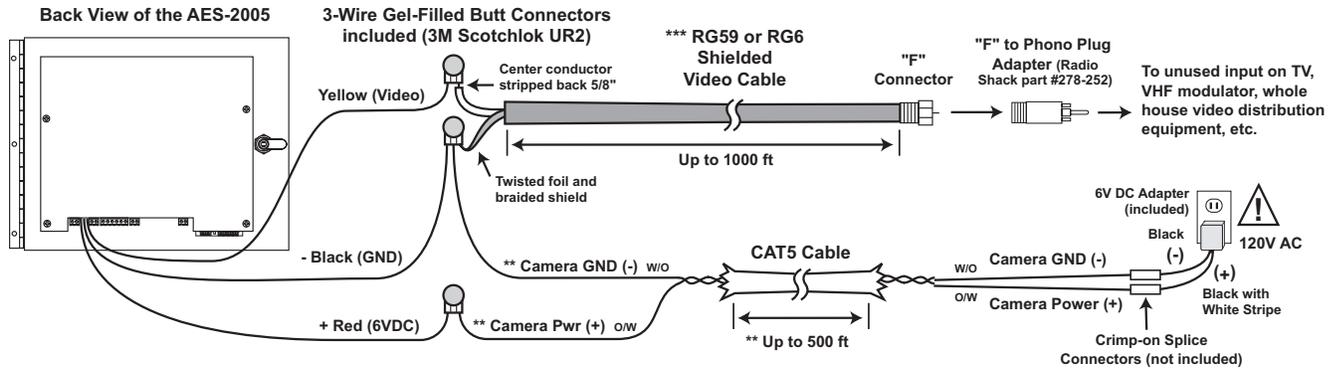


Once the **AES-2005** is secured to the wall, the unit can be connected to the building wiring as described below.

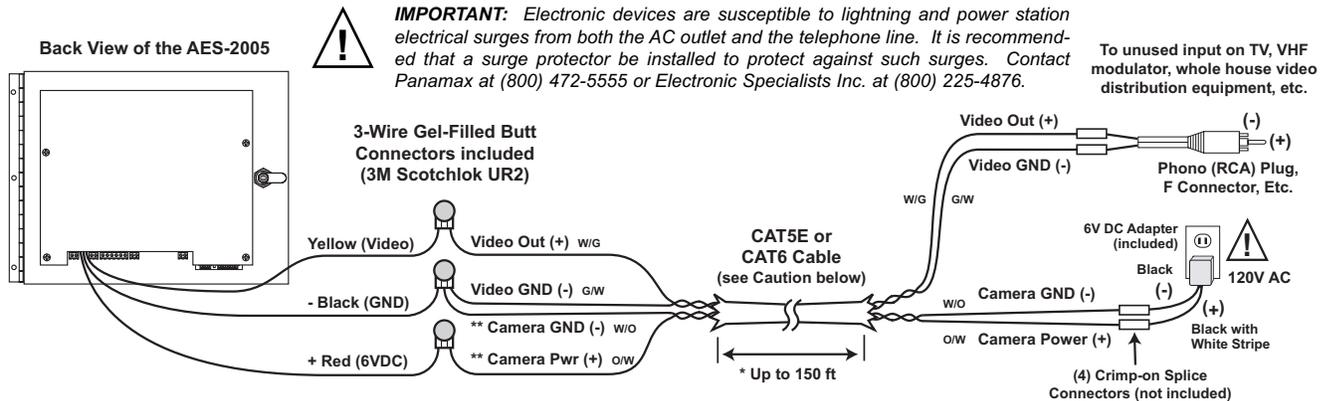
Step 1.	Cut off the 2.1 mm plug from the end of the AC power adapter cord. The AC adapter can be located up to 100 feet away from the entry system when using a minimum of 24 AWG wire.
Step 2.	Make all connections to the AES-2005 panel before inserting the adapter into a wall outlet. The two wires from the AC adapter connect to the two terminal block positions labeled "13.8 VAC".
Step 3.	If the incoming telephone line has an RJ-11 connector, connect it to the RJ-11 jack on the control board. Two terminal positions marked positions marked "C.O." are also provided for a striped wire connection.
Step 4.	The AES-2005 can be wired to operate a single door strike, or a door strike and an automatic door opener. The doorstrike and door strike power supply should be wired to the terminal positions labeled "Door Strike 1". Both normally open and normally closed contacts are available.
Step 5.	If your automatic door requires a contact closure for activation, wire it to the terminal positions labeled "Door Strike 2". Both normally open and normally closed contacts are available.
Step 6.	If the installation requires a postal lock, a normally open momentary key switch can be wired to the terminal block positions labeled "Postal Lock".
Step 7.	If a C-3000 is to be used, connect a pair of wires from the AES-2005 terminal block labeled "C-3000" to the C-3000 entry phone connection. The phone numbers for the lines wired to the C-3000 must have a "C" programmed as the first character (see Programming). For more information, retrieve Fax Back Document 162 and 868 .
Step 8.	After all the connections are made, close and lock the hinged panel.
Step 9.	The last step is to connect the A.C. power adapter to a wall outlet. When power is connected to the system, the front display should show "Welcome!"

D. Wiring the AES-2005 Video Camera

1. Using RG59 for Video and CAT5 for Camera Power (Recommended)



2. Using the CAT5E or CAT6 for Video and Camera Power (see Caution below)



* **Note:** Up to 150 ft video cable run length can be achieved using CAT5E or CAT6 cable. Longer cable runs can be used if a passive or active video Balun transceiver is used on each end of the cable. Generally, passive transceivers can achieve up to 750 ft cable runs where active transceivers can achieve up to 3000 ft runs depending on cable type, etc. The type of video balun transceiver required is specific to your cable run length. For more information on video balun transceivers go to: www.northernvideo.com.

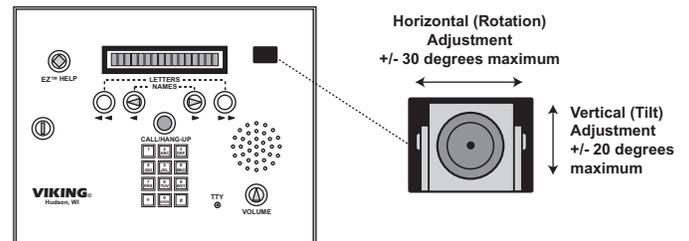
** **Note:** The maximum camera power supply wire run length is 500 ft of 24 gauge wire (CAT 5/6), longer runs are possible by doubling pairs or increasing the wire gauge.

*** **Note:** RG59 or RG6 with solid center conductor and 95% bare copper braid shield.

Caution: When routing CAT5E or CAT6 cable, maintain a minimum distance of 3 ft from any parallel high voltage wire (110 VAC) and a minimum of 2 ft from crossing any high voltage wire. For installations where RF noise is expected (commercial applications) or wire runs are near high voltage (110 VAC) wires, a shielded video cable such as RG6 is recommended.

G. Adjusting the Camera

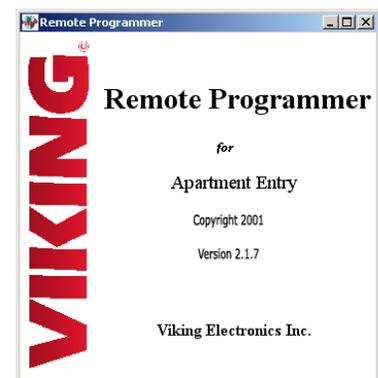
The camera can be tilted and rotated to your desired position. A portable service (test) monitor can be used to determine the correct viewing angle during installation. **Important:** To prevent the edge of the faceplate from being viewed in the video image, do not rotate the camera beyond 30 degrees or tilt beyond 20 degrees.



Programming

The tenant names and phone numbers must be programmed into the system for proper operation. This programming is done through the telephone line interface using the PB-100 with special software. This allows either remote programming from a distant location, or local programming using the Viking DLE-300 line simulator. The PB-100 is connected to a serial port of a P.C. and Windows based software is used to enter tenant names, phone numbers and the recording for the voice directory. A data base is constructed for each apartment to make future changes easier. When the Remote Programmer software is first invoked, the screen at the right pops up. After a few seconds, the "Building Selection" screen will appear.

The following sections provide a brief overview of programming screen shots and descriptions. Detailed programming instructions are available only in the software itself.



A. Building Selection

The Remote Programming Software is capable of handling information on many different buildings. The Building Selection screen (left) displays the information on each building. This screen also allows the user to add a new building, or drop an old one. Pressing the Next button will bring up the "Apartment Selection" screen.

The System Parameters pop up (right) (under the Setup menu) is used to set up the various programmable features of each entry system. Door strike timing, opener code, maximum call time, ring count and silence time out are all programmable from this screen. This screen also has a check box for disabling the Keyless Entry Codes. This feature is useful when using card readers. By checking this box, a card can be used to gain access, but trying to enter the card number as a keyless code will not work. To override this disable, just add a new tenant without any name, and only enter the keyless code in the Apartment Selection screen.

B. Apartment Selection

This screen (far right) is used to set up the information on each of the tenants in the building. New tenants can be added, and existing names and codes can be changed. When using card readers, the keyless entry code feature can be disabled in the system Parameters screen. If you want to have a code that can override this feature, enter a five digit code number in the Keyless Code box, but do not fill in any other boxes. That code can be used as a keyless code even though keyless codes have been disabled.

If the apartment phone line is wired through a Viking C-3000, the phone number field must start with a "C".

The list can be sorted according to name, apartment number, phone number, or code numbers by selecting the "Sort" pull down (near right). Clicking on the Back button will bring up the previous screen "Building Selection", clicking on the Next button will bring up the "Data Transmit" screen.

C. Transmitting Data to and from the AES-2005

After the PB-100 dials the phone number of the AES-2005 and creates a link, the Security Code screen will pop up. If this is the first time the AES-2005 has been called, enter the security code "8,4,5,4,6,4". Once in the Data Transmit screen, use the Security Code selection under the Tools pull down to change the security code. If this screen is left blank, no code will be required. Keep in mind that while the PB-100 is linked to the AES-2005, ALL DOOR ENTRY FUNCTIONS ARE HALTED until the PB-100 hangs up.

1. Data Transmit Screen

The Data Transmit screen (right) is used to control the transfer of information from the P.C. to the entry system. The data block size and the number of retries can be tailored to fit any phone line condition. The user has the option of sending all the records or just sending the records that have been modified in the previous screen by setting the "Show Changes Only" check off. If an AES-NET card installed in the AES-2005 and a local card reader is used, the AES-NET can be programmed using the Local Card Reader selection of the Tools pull down. For more information on programming the local card reader, refer to the AES-NET Technical Practice. To go to the previous Apartment Selection screen, click on the Back button. To go on to the audio recording click on the Next button.

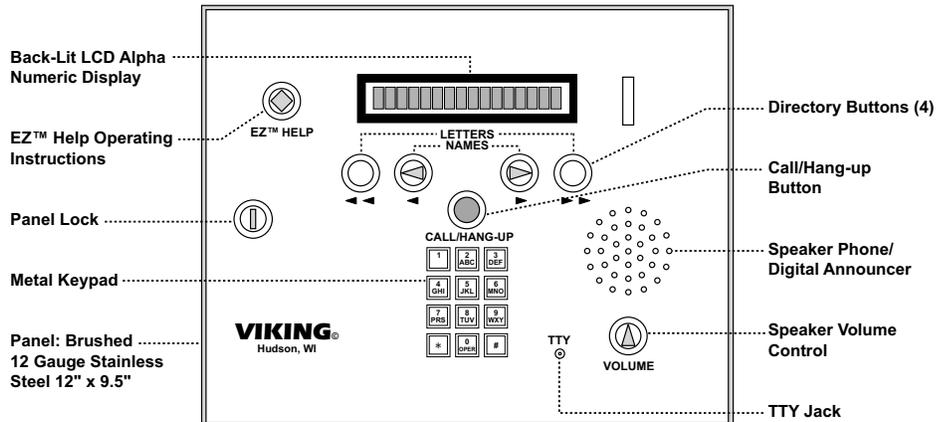
Operation

A. General

The **AES-2005** is designed to use the public switched phone network as a link between the door or gate entry of an apartment building and the individual tenant's apartment. The system enables the tenant to speak to the visitor before allowing them to enter the building. To gain access to a building, the visitor must enter a code pertaining to the apartment they wish to visit, and then speak to a person in the apartment using the built in hands-free phone. The apartment tenant could then dial a single digit "opener code" on their Touch Tone phone to operate a door strike to allow entry. If the apartment access code is known, it may be entered by using the telephone keypad. If the apartment access code is not known, the apartment directory can be used. The directory is displayed with 1/2" tall characters on the back-lit display. Alternatively, the tenant names can be broadcast over the speaker. When the correct tenant name is displayed/announced, the user simply presses the "Call" button and the **AES-2005** speed dials the tenants apartment. You may also call a tenant by entering the person's phone number on the keypad.

Warning: If the phone number entered matches one of the pre-programmed access codes, that number will be dialed.

Note: To avoid busy signals on the entry phone, call waiting is recommended on each tenant's phone line.



B. EZ™ Help Instructions

General operating instructions can be received by pressing the **EZ™ Help** button. The Help Message is displayed on the character display and also broadcast over the speaker. When the **EZ™ Help** button is pressed followed by another button, a voice message and display will give the function of that button. For one handed operation of the **EZ™ Help** messages, press the **EZ™ Help** button once, then press any other button on the panel for help on it's operation. A second press of the same button will cancel the help mode and normal operation of the button will proceed. The help voice will stay active through the entire length of the call.

C. Calling a Tenant

If the right arrow button is momentarily pressed, a name will be shown on the display and broadcast over the speaker*. If the right arrow button is pressed again, the next name in the directory will be displayed and announced*. In this manner, the entire tenant directory, name by name, can be reviewed. If the button is held, the voice directory* and display go into a high speed scan mode. The directory is always in alphabetical order, so the user can quickly get an idea as to where they are in the directory. When the button is released, the full name at that point in the directory will be announced* and displayed. If the desired name is passed, the user can press the left arrow button to reverse the direction and go back to the desired name. If a person stops for a few seconds on a name, the message "**Press Call to Dial**" is announced* and displayed. The two "Letters" buttons can be used to walk through the alphabet in the same manner. When the correct letter is reached, pressing the arrow button will display and announce* the first name at that alphabet letter.

When the desired name is displayed and announced*, the visitor can press the "Call" button and the phone number for that tenant will be dialed. When the dialing process starts, the audio from the phone line will be sent to the speaker and call progress information will be sent to the display. When the tenant answers their phone, "**Entry System**" will be announced and the visitor can talk to the tenant. When the tenant confirms the visitor's identity, a single digit "opener code" may be entered from the tenant's phone, a message will be displayed "**Door Unlocked**", an audio "buzz" is heard and the door strike will be activated. After a few seconds the **AES-2005** will hang up automatically.

* **Note:** Announcements are only broadcast over the loud speaker if the **EZ™ Help** button has been activated.

D. Other Controls

Each time the volume button is pressed, the volume of the speaker is increased. If maximum level is reached, the next press will roll the volume level over to it's lowest level. The volume is reset to it's original starting point when the call is finished.

E. Keyless Entry

A tenant may use their personal keyless entry code to let themselves in by entering a "#" followed by their (1-6 digit) personal keyless entry code on the **AES-2005**'s keypad. **Note:** For more accurate entry logging (statistics) a minimum of a 3 digit keyless entry code is recommended.

F. TTY

A TTY jack is available for TTY (teletypewriter) communication between tenants and the door.

G. Video Camera

The **AES-2005** color video camera operates completely independently of the **AES-2005** phone board. With power supplied to the camera, it will continuously output a video signal.

Product Support Line...715.386.8666

Fax Back Line...715.386.4345

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