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 support- ing 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 PRX-1, PRX-2, PRX-3, PRX-4, PRX-5, or LRR-4.

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

**Features**

- Built-in high resolution color video camera with wide viewing angle, tilt/swivel adjustments and wide operating temperature
- 16 position, back-lit display with 1/2" tall characters
- Non-volatile digital voice announcer
- Factory configured to voice announce the names for 75 apartments (expansible 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:
  - Enamel 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
- Use with Viking PRX-1 (DOD 221), PRX-2 (DOD 221), PRX-3 (DOD 228) or PRX-4 (DOD 199) Proximity Card Readers

**Specifications**

- **Power:** 120V AC/13.8V AC 1.25A, UL listed adapter provided
- **Dimensions:** AES-2005S (Surface mount): 12.5" x 9.75" x 4.25" (317.5mm x 247.6mm x 107.9mm), AES-2005F (Flush mount): 15" x 12.5" x 3.5" (381mm x 317.5mm x 88.9mm)
- **Shipping Weight:** 17 lbs (7.7kg)
- **Environmental:** -15° F to 130° F (-26° C to 54° C) 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:** (20) cage clamp screw terminals, 3 gel-filled butt connectors (3M Scotchlok UR2)
- **Maximum Wiegand Length (24 AWG wire):** PRX-1: 800 ft (244m), PRX-2: 400 ft (122m), PRX-3 (using 3 pairs for power): 800 ft (244m), PRX-4: 800 ft (244m)

(See page 2 for camera specifications)
Two Year 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 two years from the date of purchase from any authorized Viking distributor. 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 (RA) 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. This warranty does not cover non-Renovated products that have been exposed to wet or corrosive environments. This warranty does not cover stainless-steel surfaces that have not been properly maintained.

No other warranties, express or implied, are given by Viking. 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. For any particular purpose.

For any particular purpose.

Exclusion of consequential damages, Viking shall not, under any circumstances, be liable to purchasers, 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.

Excluding any warranty or liability expressed or implied, 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 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 exclusionary 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:AAAEI#7A88XXX.

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 RENs on a telephone line may result in the devices not rings in response to an incoming call. In most but not all areas, the sum of the RENs should not exceed five (5). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is the product of the total RENs that has the format US:AAAEI#7A88XXX.

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, the installation of this equipment may void your alarm system’s compliance with local or national code requirements. This equipment, if improperly connected, can cause harm to your telephone network.

It is recommended that the customer install an AC surge arrester in the AC outlet to which this device is connected. This may be necessary to maintain uninterrupted service.

Specifications

Camera Specifications

Power: 6-22V DC 150mA (12V DC UL Listed 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: 0.025 LUX (50IRE) F 1.2 3200K

Lens: 2.1mm, conical pinhole

FOV (Field of View): 80°, Horizontal, 60° Vertical, 100° Diagonal

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

IR Compatibility: This camera is equipped with an OLP (Optical Low Pass) filter to maintain correct video color in outside applications. The standard camera is NOT compatible with IR illuminators. If IR illumination is required, you will need to replace the existing camera with a Viking model VCAM-IR1R. For more information, see DOD# 190.

Maximum Wire Run Length: 1000 ft with *RG59/RG6 for video and CAT5 for power (single pair) and entry phone audio (1 pair). 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.
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.

**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.

**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.
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.

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**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.

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*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.
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.

<table>
<thead>
<tr>
<th>Sw 1</th>
<th>Sw 2</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>ON</td>
<td>Normal audio detect sensitivity (factory setting)</td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>Increased audio detect sensitivity for low level lines. Useful in applications in which voice or busy signals have trouble breaking over the speaker.</td>
</tr>
</tbody>
</table>

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 "C.O." are also provided for a striped wire connection. **Note:** See "Modem over VoIP" below.

**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, see DOD 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!"

**Note:** The door strike and door opener can be tested using the default keyless entry code programmed in the panel. Dial "+" plus "00864" on the AES-2005 keypad.

1. **Modem over VoIP**

If you are replacing an analog PSTN (Public Switched Telephone Network) or POTS (Plain Old Telephone Service) line with VoIP service, be aware that the following Viking models utilize internal modems for programming: AES-2000, AES-2005, PB-100 and CTG-2.

The problem is that the codecs used by VoIP ATA's (Analogue Terminal Adapter) are designed to compress voice, not the analog signals sent and received by modems. A second problem is if a non-compressing codec is used, the transmission will be very sensitive to network QoS (Quality of Service), i.e. packet loss, jitter, and latency will be issues. To successfully use data modems over a VoIP connection you will need a minimum of:

- A non-compressing codec such as ITU G.711
- A high quality network connection
**D. Wiring the AES-2005 Video Camera**

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

   ![Diagram of AES-2005 Wiring](image)

   **Back View of the AES-2005**

   - **Important:** Electronic devices are susceptible to lightning and power station electrical surges from both the AC outlet and the telephone line. It is recommended that a surge protector be installed to protect against such surges.

   *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 1000 ft of 24 gauge wire (CAT 5/6), longer runs are possible by doubling pairs, increasing the wire gauge or using up to a 22V DC 200mA power adapter.

   **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.

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

   ![Diagram of AES-2005 Wiring](image)

   **Back View of the AES-2005**

   - **Important:** Electronic devices are susceptible to lightning and power station electrical surges from both the AC outlet and the telephone line. It is recommended that a surge protector be installed to protect against such surges.

   **E. 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 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 AES Remote Screen (Statistic Info), then the Security Code screen will pop up. If the security code in the AES-2005 is still the default value enter "8,4,5,4,6,4". If the security code has been changed from default, enter your unique security code. 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.
The Download Names screen (right) is used to retrieve the tenant names, phone numbers, access codes and keyless entry codes that have been previously programmed into the AES-2005. The “Present ID” box contains the ID number of the first record to be downloaded. The tenant ID is an unchangeable consecutive number assigned to the tenant when they were added to the database. The “Download Count” box contains the total number of records to be downloaded. Clicking on “Download” will retrieve all records starting with the “Present ID” through the Download Count. Once the records are displayed in the data field, the “File” pulldown menu can be used to print or save the data. Clicking on “Clear” will clear data fields and reset the present ID to 1. Clicking on “Back” will return the user to the Data Transmit Screen.

The Download Statistics screen (left) allows the user to retrieve the AES-2005’s building entry log. Each time the AES-2005 energizes the door strike, it adds to the log, recording the date, time name/type (tenant allowing the entry) and code (type of actuation). Up to 1024 entries can be stored before the oldest entry is written over. Retrieving just a portion of the log can be accomplished by entering a “Read Pointer” value for the starting point and a “Count” value for the ending point. To receive the AES-2005’s existing data, click on “Download” and to clear all existing data click on “Reset”. Clicking “Back” will return the user to the Data Transmit Screen.

If remote ES-3 modules are installed, the Entry Points screen (right) is used to program each ES-3. When this screen is invoked, fill in group and rotary switch setting for the ES-3 that you wish to program. It is best to click on Get Status to retrieve the present settings. Any changes can be entered directly into the data boxes. For complete ES-3 programming instructions, see the ES-3 Technical Practice (DOD# 195).
**Programming the AES-NET Interface**

The AES-NET interface, included with the AES-2005, allows a local Wiegand device such as a Proximity Card Reader to be added to the AES-2005 accessible door entry system. Using Proximity cards instead of keyless entry codes, the building manager keeps control over the number of people that can let themselves into the building. The Wiegand device used may be the Viking model PRX-1 Proximity Card Reader or any other card reader, RF transmitter, or digital keypad that outputs 26 bit Wiegand data.

In addition to a directly connected Wiegand device, the AES-NET interface also provides two wire CAN bus connections which supports up to 32 additional remote points of entry. Each additional remote entry point requires one Viking Model ES-3 door controller, one Wiegand device, and a door strike or magnetic lock of your choice. Only one pair of wires are needed to wire all 32 entry system door controllers back to the AES-NET interface.

**Specifications:**
- **Maximum CAN length:** 0.8 Km (2600 ft) using 24 AWG twisted pair, 1.6 Km (5300 ft) using 2 pairs of 24 AWG twisted pair
- **Maximum Wiegand Length:** 244m (800 ft) - 24 AWG wire
- **Connections:** Six cage clamp screw terminals

**A. Definitions**

- **26 bit Wiegand format:** The industry standard data output of access control card readers.
- **CAN Communications:** A highly reliable two wire communications protocol developed for the automotive industry.
- **Entry point:** A door or gate allowing access into a secure or controlled area.
- **Proximity Card Reader:** A device used to read the data from a Proximity Card when it’s held within a few inches of the reader.

**Facility Code:** A 3-digit number that each proximity card contains in order to provide greater security. Usually the cards used at a given building all have the same facility code. By programming cards with different facility codes, these cards can have access to certain doors. Using this feature, the entry system can be set up for “zones”.

**Proximity Card:** A credit size card that identifies itself when within close proximity of a reader. Card “swiping” is not necessary. The card contains a 3 digit Facility Code, a 5 digit Internal Card number and a 5 digit External Printed number, that may or may not match the Internal number.

**B. Wiring**

One local Wiegand device (typically a Proximity card reader) is fully supported (power and data) from the AES-NET interface. Connect only the black, red, green and white wires as shown below. Keep unused leads insulated.

In addition the AES-NET interface allows the AES-2005 to communicate with the Viking model ES-3 entry system door controller via a two wire CAN Communication Bus. CAN bus distances of up to 1/2 a mile (over 2600 feet) are achieved using common 24 gauge CAT-2 through CAT-5 wire, and 1 mile (5280 feet) is possible by doubling up on the 24 gauge twisted pair (or running at least 21 gauge). Up to 32 ES-3 entry system door controllers may share the same CAN communication pair. The CAN bus must be polarity correct, so that all CAN-H connections and all CAN-L connections are common.
C. Programming

One local Wiegand type Card Reader can be added to the AES-NET. All valid card numbers must be programmed in the system for proper operation. This programming is done through the telephone line interface of the AES-2005 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 Facility codes, relay activation times and alarm conditions for each ES-3 and the valid card numbers (as keyless entry codes) in the AES-2005 data base.

Access the Remote Programmer software as described in the AES-2005 Technical Practice. Proceed through the “Building Selection”, “Apartment Selection” and the “Security Code” screens until the “Data Transmit” screen appears. Then click the “Tools” pull down and select “Local Card Reader”. The “Local Card Reader” screen will appear as shown right.

Twenty six bit Wiegand Access Cards, such as the Viking PRX-C, PRX-C-ISO, PRX-FOB and certain legacy HID® proximity protocols*, identify themselves with an eight digit number. The first three digits are considered the Facility Code and are programmed in this screen. The last five digits are the Internal Card Number, and are programmed as the AES-2005 “Keyless Entry Code” for the person the card will be issued to. For example: If the facility code is 477 and the Internal Card number is 00023, then program 477 as one of the Facility Codes to be used. The Internal Card number “00023” must be programmed into the AES-2005 as the Keyless Entry Code for the given apartment (see the Programming section in the AES-2005 Technical Practice). Up to eight different Facility Codes can be programmed.

* HID and the HID logo are registered trademarks of HID Global Corporation, an ASSA ABLOY company. All other trademarks are the property of their respective owners.

D. Operation

The AES-NET interface allows ES-3 Entry System Access Controllers to communicate with the AES-2005's main board to provide up to 32 remote access controlled entry points. The AES-NET interface also monitors a local Wiegand device (ie, proximity card reader) for 26 bit data. When data is received, it is sent to the AES-2005 which compares it against the programmed data base. If the Facility Code matches, and the card number matches a programmed Keyless Entry Code, access will be granted just as if the tenant dialed the keyless entry code on the AES-2005 keypad.

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 its 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. Important: If TTY communication is needed, the “silence time out” must be disabled.

G. Using the AES-2005 with the Viking C-3000

When using the AES-2005 with the Viking C-3000, be sure to disable the C-3000 “Relay Activation Code”. For complete C-3000 programming instructions, see the C-3000 Technical Practice (DOD# 162). If more than 96 tenants need to be connected to C-3000’s, see Application Note DOD# 868.

H. 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: 715-386-8666

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