

## Vandal Resistant VoIP Entry Phone System with Integrated Proximity Card Reader and Analog Color Video Camera

The **K-1775-IP Series** entry phones provide a durable and attractive hands-free phone for apartment and residential door entry or applications requiring a vandal resistant VoIP speaker phone with an integrated 125 KHz Proximity Card Reader and analog Color Video Camera. The **K-1775-IP** phone is designed to provide quick and reliable hands-free communication for SIP VoIP phone systems with PoE. The unit can be programmed from any PC on the same LAN or remotely using a Static IP Address. The **K-1775-IP** entry phone can dial up to 250 programmable numbers and another 250 rollover numbers, read up to 1000 proximity card numbers and provide CCTV video of the entry area. They are available in two attractive finishes: "Brushed Stainless Steel" and "Oil Rubbed Bronze".

When the **K-1775-IP** phone is connected to an apartment or business tenant, a built-in contact closure may be activated to control an electric gate or door strike. Up to 1,000 keyless entry codes may be programmed, providing tenants with keyless entry. The **K-1775-IP** has a built-in Proximity Card Reader with capacity to program up to 1,000 card numbers. Keyless entry codes and card numbers can be programmed to only allow access at specific times and/or day of the week. The **K-1775-IP** includes a request for exit (REX) input and also offers activity logging.



**K-1775-IP**  
"Brushed 316 Stainless Steel"  
(similar to brushed nickel)



**K-1775-BN-IP**  
"Oil Rubbed Bronze"  
(satin dark brown with fine copper metallic)

The **K-1775-IP-EWP** shares all of the features of the **K-1775-IP** in addition to Enhanced Weather Protection (EWP) for outdoor installations where the unit is exposed to precipitation or condensation. EWP products are designed to meet IP66 standards and may feature foam rubber gaskets, sealed connections, gel-filled butt connectors, as well as potted circuit boards. For more information go to [www.vikingelectronics.com/ewp](http://www.vikingelectronics.com/ewp).

**⚠ Installation requires the assistance of a Network Administrator / IT Technician.**

## Features

- **Vandal Resistant Features:** 14 gauge louvered 316 stainless steel faceplate with permanent laser etched graphics. Speaker/mic screen. Heavy duty metal keypad and "Call" button. Scratch resistant powder coating (**K-1775-BN-IP**). T-10 Security Torx drive mounting screws.
- **Weather Resistant Features:** Marine grade 316 stainless steel faceplate, screws and push button switch. Switch internally sealed per IP67. Mylar speaker. Self-draining mic mount. Faceplate, mic and speaker gaskets. Weather resistant powder paint (**K-1775-BN-IP**)
- Available in 2 standard finishes: 316 brushed stainless steel with laser etched graphics or oil rubbed bronze powder paint with copper metallic graphics
- Built-in high resolution analog NTSC color video camera with wide viewing angle, tilt/swivel adjustments and wide operating temperature: -40°F to 140°F
- Built-in 125KHz 26-bit Wiegand proximity card reader with LED and beep card read confirmation and EWP board protection
- Two sets of SPDT 2 Amp relay contacts for door/gate or camera control
- Optional **RC-4A** for Secure Remote Relay Control
- Blue "Call /Status" LED indicator
- SIP compliant (see page 2 for compatible SIP servers and IP phone systems)
- PoE powered (class 2, <6.5 watts)
- **Outbound Proxy, Authentication ID, Peer to Peer, VLAN Tagging**
- Automatic Noise Canceling (ANC) feature for operation in noisy environments
- Viking's proprietary VOX switching eliminates the need for "Push to Talk" mode
- Network downloadable firmware
- 26 Bit Wiegand input for additional proximity card readers
- Programmable to speed dial up to 250 numbers
- Cycles to roll over phone number on busy or no-answer
- Program up to 1,000 keyless entry codes and/or proximity card numbers
- Keyless entry codes and proximity card numbers can be programmed to only allow access at specific times and day of week
- Event logging with time and date stamp
- Optional Enhanced Weather Protection (EWP), For more information go to [www.vikingelectronics.com/ewp](http://www.vikingelectronics.com/ewp).
- Hangs up on busy signal, time-out or touch tone command
- Remotely programmable
- Extended temperature range (-40°F to 140°F)
- Programmable volume adjustments for microphone and speaker
- Selectable auto-answer feature for monitoring
- Flush mount with included steel rough-in box
- Surface mount with optional **VE-6x7** surface mount box (not included)
- Optional **VE-LIGHT** kit to illuminate the front panel at night
- Diagnostics (for testing mic, speaker, relays and proximity cards)

## Applications

- Apartment Entry Phone
- Residential Gate Entrance
- Door Entry Phone
- Courtesy Assistance Phone
- Customer Service Phone
- Automated Teller (ATM) Phone
- Security or Emergency Phone
- Hot-Line Phone
- Kiosk Phone with up to 250 number speed dialing
- Use with any of Viking's Proximity Cards: **PRX-C**, **PRX-X-ISO** and **PRX-FOB**

## Specifications

**Power:** PoE class 2 (<6.5 watts)  
**Dimensions:** Overall: 5.5" x 6.5" x 2.6" (140mm x 165mm x 66mm)  
 Rough-in box: 4.5" x 5.5" x 2.5" (114mm x 140mm x 64mm)  
**Shipping Weight:** 3.4 lbs (1.5 kg)  
**Operating Temperature:** -30°F to 140°F (-34° C to 60° C)  
**Humidity - Standard Products:** 5% to 95% non-condensing  
**Humidity - EWP Products:** Up to 100%  
**Audio Codecs:** G711u, G711a, G722  
**Network Compliance:** IEEE 802.3 af PoE, SIP 2.0 RFC3261, 100BASE-TX with auto cross over  
**Regulatory Compliance:** CE, FCC Part 15 and Canada ICES-003 Class A  
**Connections:** (1) RJ45 10/100 Base-T, (14) gel-filled butt connectors

## VoIP SIP System Compatibility

See the **Viking VoIP SIP System Compatibility List** for compatibility and vendor specific detailed configuration instructions. To download the PDF file, do one of the following:

**SCAN:**



**CLICK:** **Viking VoIP SIP System Compatibility List.**

**COPY:** <https://vikingelectronics.com/wp-content/uploads/VoIP-Compatibility944.pdf>

**Important:** *Exclusion from this list **does not mean incompatibility**, it only means that compatibility has not been verified. If you have questions, please call Viking Electronics at 715-386-8861.*

## Definitions

**Client:** A computer or device that makes use of a server. As an example, the client might request a particular file from the server.

**DHCP:** Dynamic Host Configuration Protocol. In this procedure the network server or router takes note of a client's MAC address and assigns an IP address to allow the client to communicate with other devices on the network.

**DNS Server:** A DNS (Domain Name System) server translates domain names (ie: [www.vikingelectronics.com](http://www.vikingelectronics.com)) into an IP address.

**Ethernet:** Ethernet is the most commonly used [LAN](#) technology. An Ethernet Local Area Network typically uses twisted pair wires to achieve transmission speeds up to 1Gbps.

**Host:** A computer or device connected to a network.

**Host Name:** A host name is a label assigned to a device connected to a computer network that is used to identify the device in various forms of network communication.

**Hosts File:** A file stored in a computer that lists host names and their corresponding IP addresses with the purpose of mapping addresses to hosts or vice versa.

**Internet:** A worldwide system of computer networks running on [IP](#) protocol which can be accessed by individual computers or networks.

**IP:** Internet Protocol is the set of communications conventions that govern the way computers communicate on networks and on the [Internet](#).

**IP Address:** This is the address that uniquely identifies a host on a network.

**LAN:** Local Area Network. A LAN is a network connecting computers and other devices within an office or building.

**Lease:** The amount of time a [DHCP](#) server reserves an address it has assigned. If the address isn't used by the host for a period of time, the lease can expire and the address can be assigned to another host.

**MAC Address:** MAC stands for Media Access Control. A MAC address, also called a hardware address or physical address, is a unique address assigned to a device at the factory. It resides in the device's memory and is used by routers to send network traffic to the correct IP address. You can find the MAC address of your **IP Device** printed on a white label on the top surface of the PoE LAN port.

**Router:** A device that forwards data from one network to another. In order to send information to the right location, routers look at [IP Address](#), [MAC Address](#) and [Subnet Mask](#).

**RTP:** Real-Time Transport Protocol is an Internet protocol standard that specifies a way for programs to manage the real-time transmission of multimedia data over either unicast or multicast network services.

**Server:** A computer or device that fulfills requests from a client. This could involve the server sending a particular file requested by the client.

**Session Initiation Protocol (SIP):** Is a signaling communications protocol, widely used for controlling multimedia communication sessions such as voice and video calls over Internet Protocol ([IP](#)) networks. The protocol defines the messages that are sent between endpoints, which govern establishment, termination and other essential elements of a call.

**Static IP Address:** A static IP Address has been assigned manually and is permanent until it is manually removed. It is not subject to the [Lease](#) limitations of a [Dynamic IP Address](#) assigned by the [DHCP Server](#). The **IP Device** has DHCP enabled by default. If it is not able to obtain an IP address from the network server or router, it falls back to a last known IP address. If the network settings in the **IP Device** are reset (See Programming Section F) and the **IP Device** is not able to obtain an IP address from the network server or router, the **IP Device** forgets the last known IP address and falls back to a default static IP address of: **192.168.154.1**

**Subnet:** A portion of a network that shares a common address component. On TCP/IP networks, subnets are defined as all devices whose IP addresses have the same prefix. For example, all devices with [IP addresses](#) that start with 100.100.100. would be part of the same subnet. Dividing a network into subnets is useful for both security and performance reasons. IP networks are divided using a subnet mask.

**TCP/IP:** Transmission Control Protocol/Internet Protocol is the suite of communications protocols used to connect hosts on the Internet. TCP/IP uses several protocols, the two main ones being TCP and IP. TCP/IP is built into the UNIX operating system and is used by the Internet, making it the de facto standard for transmitting data over networks.

**TISP:** Telephone Internet Service Provider

**WAN:** Wide Area Network. A WAN is a network comprising a large geographical area like a state or country. The largest WAN is the [Internet](#).

## Camera Specifications

**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 (50 IRE) F 1.2 3200K

**Lens:** 2.1mm, conical pinhole

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

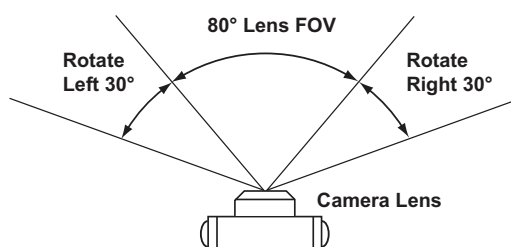
**Tilt/Swivel Adjustment:** Vertical +/- 20°, horizontal +/- 30° (see Diagram A)

**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-1IR.

**Maximum Wire Run Length:** 1000 ft with \*RG59/RG6 for video and CAT5 for power (1 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).

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

**Diagram A**  
**Camera Horizontal Field of View:**



## Proximity Card Reader Specifications

**Power:** 5 to 14V DC @ 60mA maximum (12V DC provided by the K-1775-IP)

**Maximum Cable Length:** 500 ft 24 Awg stranded shielded (Belden 9537)

**Frequency:** 125KHz

**Format:** 26 bit Wiegand

**Read Range:** 1.25" to 2.0"

**Technologies Supported:** Viking PRX-C, PRX-C-ISO, PRX-FOB, certain legacy HID® proximity protocols\* and certain AWID 125KHz proximity protocols\*\*

**Transducer:** Beeps during card read

**LED:** Red, turns off during card read

**Humidity:** Up to 100% (fully potted EWP)

**Operating Temperature:** -34° C to 65° C (-30° F to 150° F)

\* 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.

\*\* AWID is a trademark of Applied Wireless Identification Group.

# Features Overview

**Faceplate Material:** Marine grade 316 stainless steel. The SS model has a #4 brushed finish, the BN models have a powder painted finish.

**Color Video Camera:** Wide operating temperature range of -40°F to 140°F, NTSC composite video output with 420 lines of resolution, 80° wide viewing angle lens, tilt and swivel adjustments for aiming towards visitors.

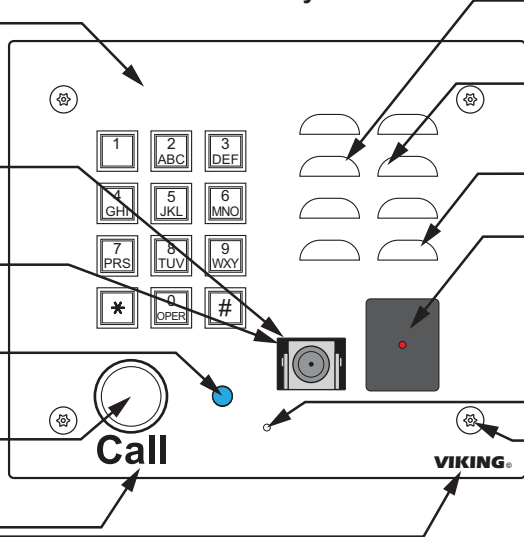
**Protective Camera Window:** Impact resistant polycarbonate lens with scratch resistant coating and water-tight gasket.

**Blue Call LED:** Lights steady to help locate the button in low light, flashes during dialing, then lights steady when answered.

**Push Button Switch:** Push to initiate call, push again to disconnect. Solid 316 stainless steel internally sealed per IP67.

**Laser Etched Graphics:** For long lasting easy to read graphics (Copper Metallic on model K-1775-BN-IP).

## Front View of the K-1775-IP Entry Phone



**Speaker:** Mylar speaker with rubber gasket to maintain water-tight seal and eliminate water deterioration.

**Speaker Screen:** Speaker screen with 0.018" wide slots to prevent punctures from paperclips, etc.

**Microphone:** Omni-directional microphone with protective water-resistant cloth.

**Proximity Card Reader:** 26-bit Wiegand, 125KHz, red LED turns off and transducer will beep during card read. Fully potted EWP. Read range 1.25" to 2.0". Impact resistant polycarbonate lens with water-tight gasket.

**Condensation Drain Hole**

**Mounting Screws:** (4) 6-32 X 3/4" Marine grade 316 stainless steel, flat head, T-10 Torx security screws and drive bit (included)

Optional: Connect to an additional Long Range RFID Receiver with 26 Bit Wiegand Output

Proximity Card Reader (26 Bit Wiegand Input)

White  
Green  
+ Red  
- Black

Long Range RFID Receiver

Camera Power  
- Black  
+ Red

12 VDC Power Output for VE-LIGHT, etc. (12VDC @ 50mA max)

- Black  
+ Red

Request for Exit (REX) Input

Green  
Green

Relay 2 Output Contacts (2A@30VDC/ 250VAC max)

N.C. Brown  
COM. Violet  
N.O. White

Connect to Optional Doorstrike, Mag Lock, Gate Controller, etc.

Relay 1 Output Contacts (2A@30VDC/ 250VAC max)

N.C. (Gray)  
COM. (Blue)  
N.O. (Yellow)

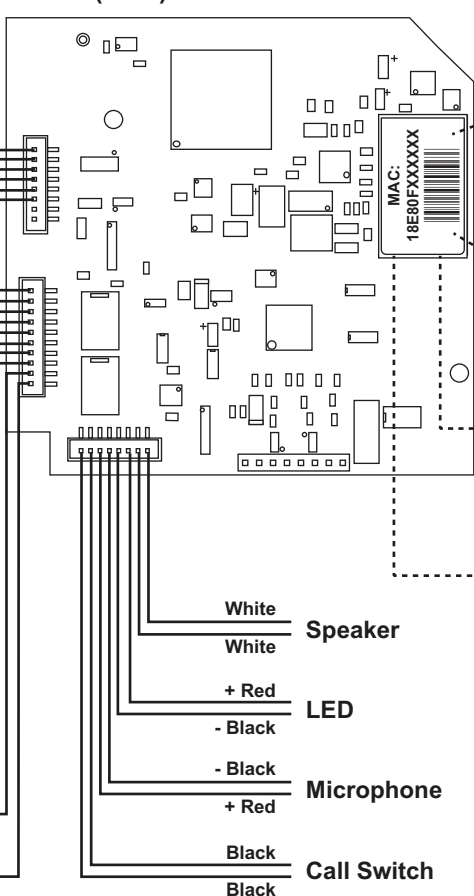
120V AC

Doorstrike / Magnetic Lock

(Power typically not required for gate controllers)

3 Gel-Filled Butt Connectors (included)

## Rear (PCB) View of K-1775-IP



**PoE LAN Port 10/100, PoE Class 2 (<6.5 Watts):** Connect to your LAN via RJ45 plug and CAT5 or greater twisted pair wire.

**MAC Address Label:** The MAC address is a unique 12 digit number used by routers to send network traffic to the correct IP address.

**Yellow Network Status LED:** Lights steady to indicate power and data link. Blinks to indicate network activity.

**Green Unit Status LED**

White  
White  
+ Red  
- Black

Speaker

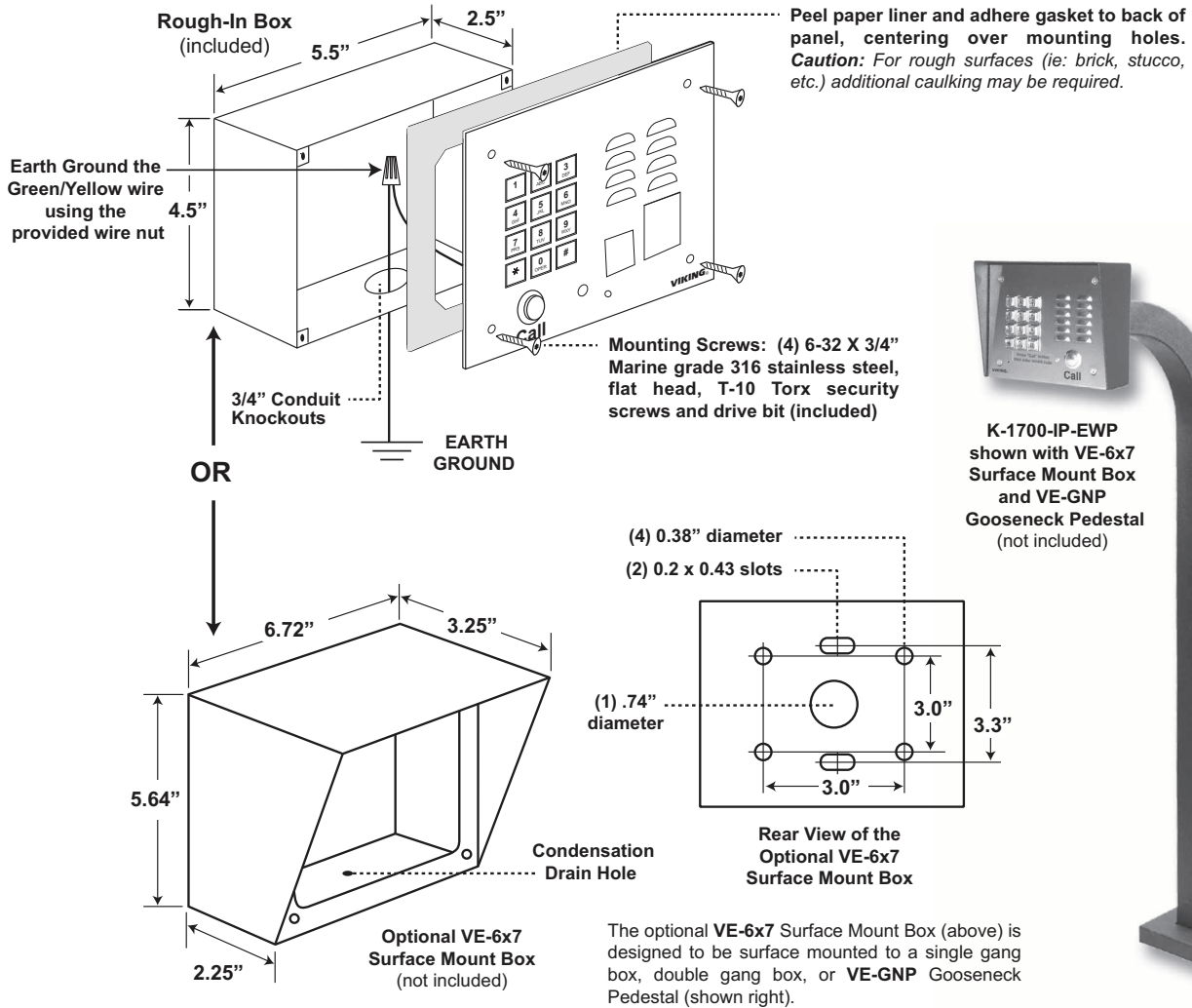
LED

Microphone

Call Switch

**Note:** The gel-filled (water-tight) butt connectors are designed for insulation displacement on 19-26 gauge wire with a maximum insulation of 0.082 inches.

# Installation and Mounting

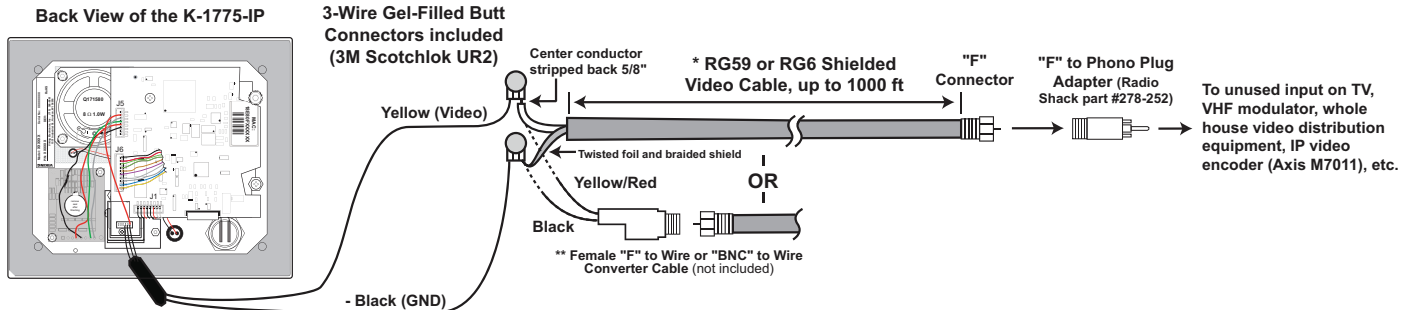


# Camera Wiring and Adjustments



**IMPORTANT:** Electronic devices are susceptible to lightning and power station electrical surges. It is recommended that a surge protector be installed to protect against such surges.

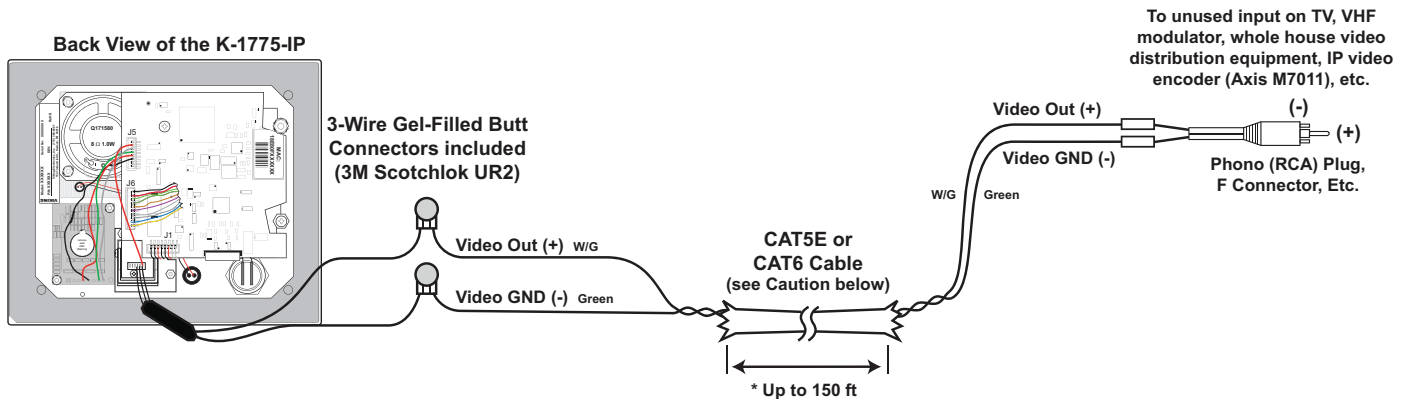
## A. Using RG59 for Analog Video (Recommended)



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

**\*\* Note:** For ease of installation, a Viking Female "F" to Wire Converter Cable can be used (Part # 261217) or "BNC" to wire converter cable (Part # U213510) can be used. Go to [www.vikingelectronics.com](http://www.vikingelectronics.com) and click on "Spare Parts" to order.

## B. Using CAT5E or CAT6 for Analog Video (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](http://www.northernvideo.com).

**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.

## C. Using a Video Encoder to Convert the Analog NTSC Video to IP

Axis manufactures video servers that encode analog video signal for transmission across IP network or the internet. The single channel model **M7011** is shown. Supplied software allows you to access Axis units connected to the network (auto-discovery) and program them via a web page interface. The video can then be monitored from any location on the network.

For more information, go to [www.axis.com](http://www.axis.com)

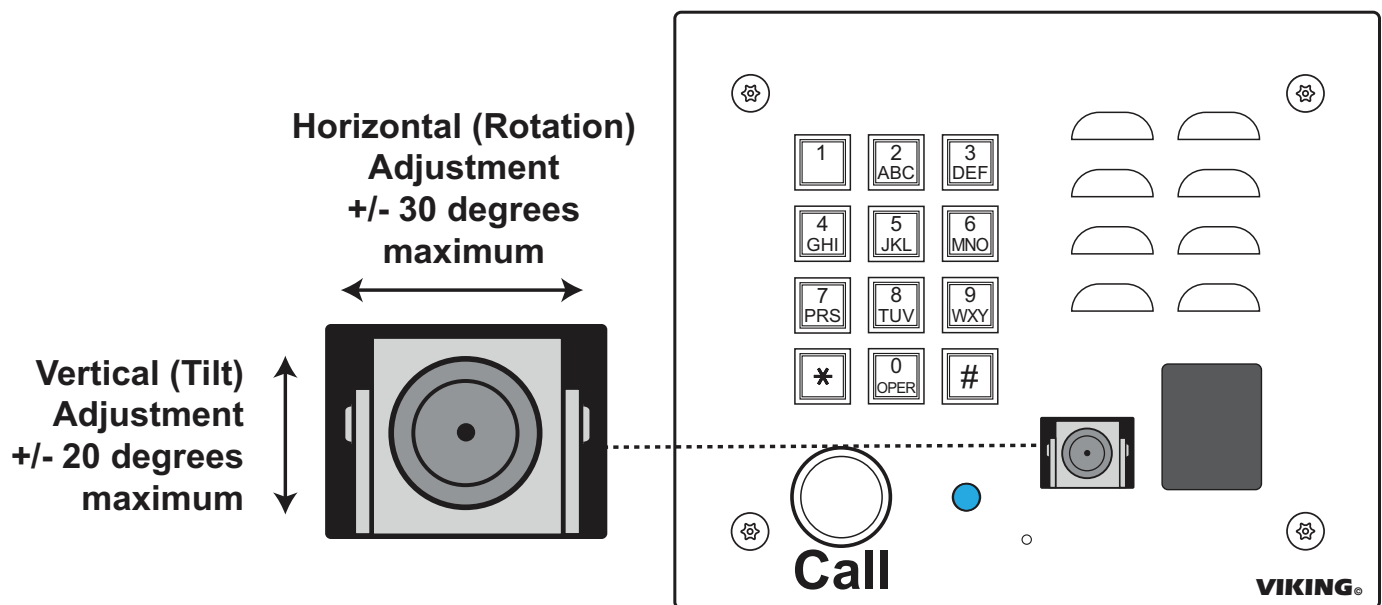
Axis Model  
M7011 shown



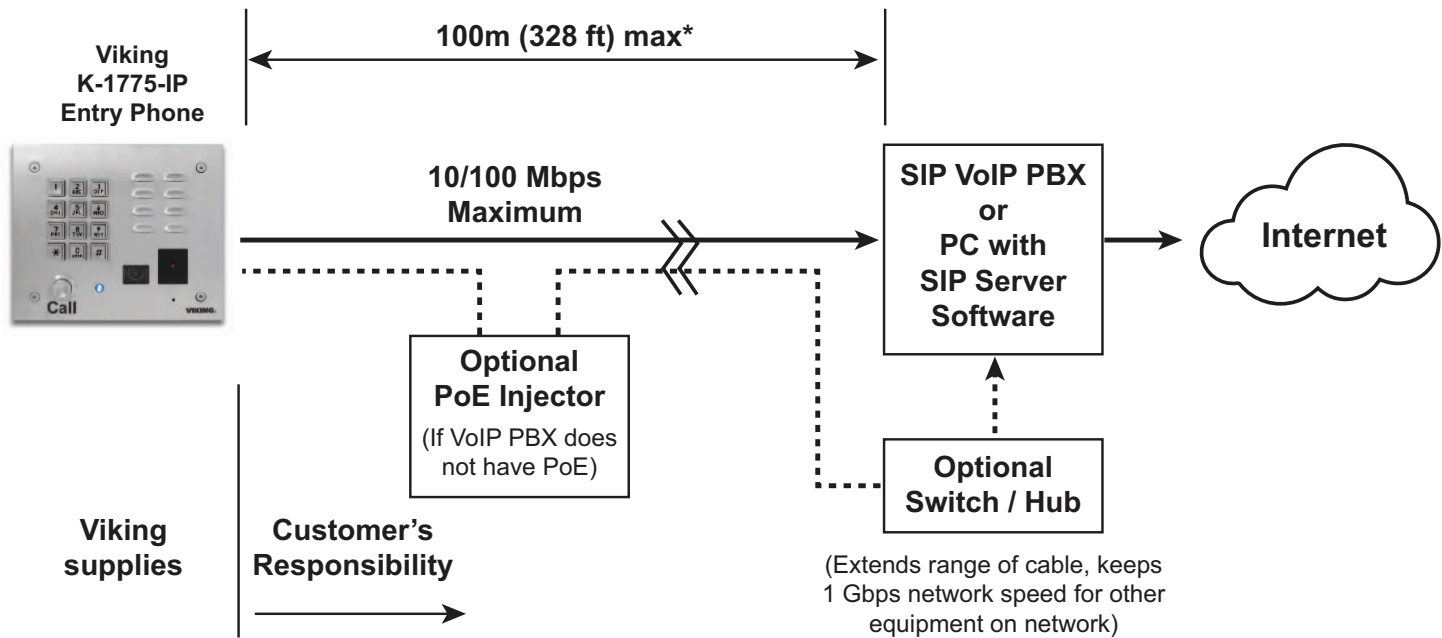
## D. Adjusting the Camera

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.



## Typical Installation on SIP Based VoIP Phone System



**\* Note:** A PoE extender can be used for an additional 100 meters per extender. For longer runs (up to 2 km / 1.2 miles) a ethernet to fiber media converter can be used.

## PC Requirements

- **IBM** compatible personal computer with: Windows 7, 8 or 10
- Adobe Acrobat Reader 8 or higher
- **K-1775-IP** hardware
- Available LAN with PoE (class 2, <6.5 watts)
- Ethernet cable ( CAT5 minimum)
- 1 MB minimum free hard drive space for installation
- 16MB of free physical RAM

## PC Programming

### Download and install the programming software

1. Go to [www.vikingelectronics.com](http://www.vikingelectronics.com) and enter **K-1775-IP** in the search box
2. Click **K-1775-IP** in the search results
3. Scroll down the page to Downloads, click **IP Programming Software**
4. Install the programming software by saving or opening the file and then clicking on **setup Viking IP Programming.exe**
5. Follow the prompts on your screen to complete software installation.
6. To start the Viking IP Programming application, click on the Viking IP Programming icon on your desktop. The Main screen will appear, allowing the user to program any **K-1775-IP Series** connected to that LAN.

**Note:** PC must be connected to the same LAN as the **K-1775-IP Series**.

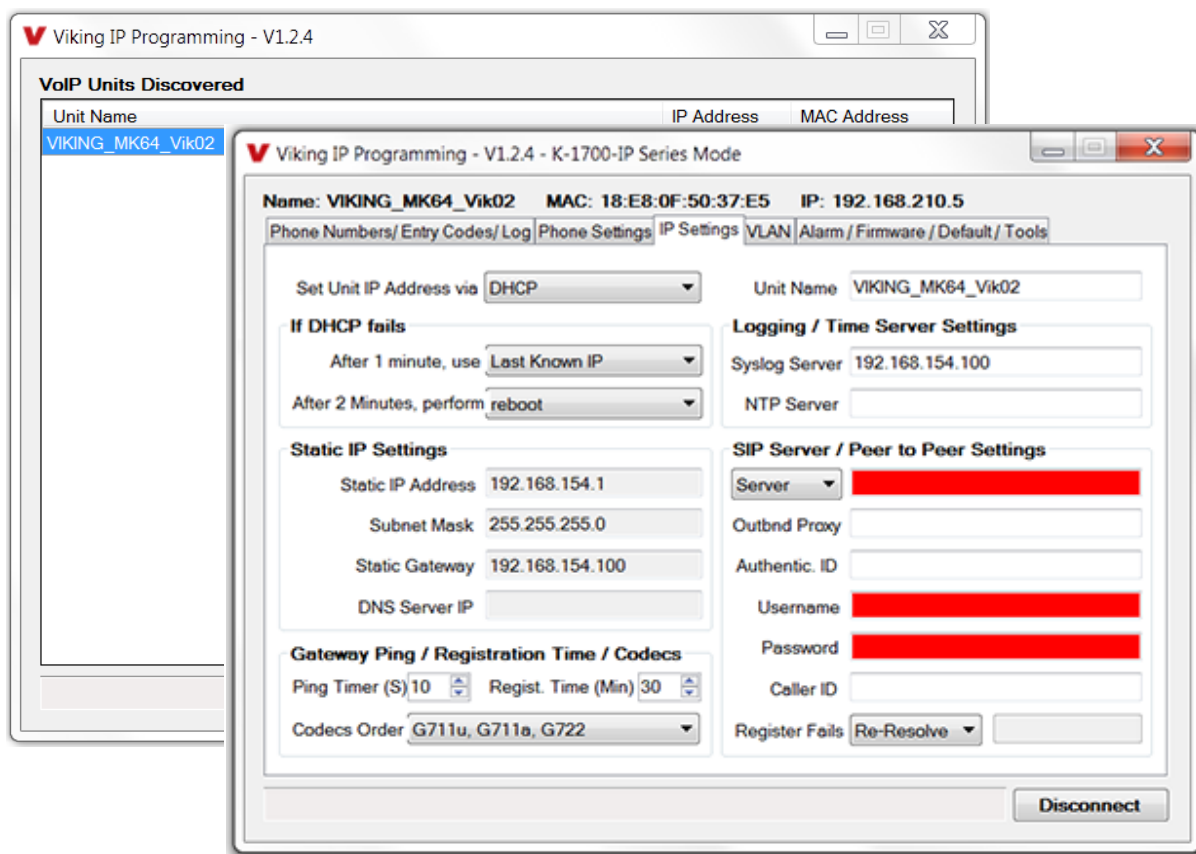
## A. Manually Muting SIP/Network Failure Alarm Beeps (3 beeps repeated every 30 seconds)

With the unit connected and powered (Green LED on and Yellow LED off or blinking) it will output 3 beeps every 30 seconds and turn the Call/Call Connected LED on and off once per second indicating a SIP registration failure, failure to receive an echo reply from a pinged gateway or Ethernet connection failure. You can manually disable the beeps by pressing and holding the Call button for 5 seconds (2 beeps will then be heard) or by clicking the “Mute Alarm Until Next Failure” tab in the Viking VoIP programming software. The LED will continue to flash allowing you to trouble shoot the failure.

## B. Connect / Disconnect

Open the “Viking IP Programming” software on the PC and the start screen shown below will appear. Any Viking IP phones that are connected to the network will appear on the list. Simply select the **K-1775-IP Series** on the list and click on the “Connect” button at the bottom or double click the selected phone. If the security code of the selected phone is still set to default (845464), the PC software will not require entering a security code to connect to the phone. **K-1775-IP Series** have a default name of “VIKING\_MK64\_Vik02”, so if many phones are connected to the same network that all have the default name, MAC addresses must be used to identify each phone.

When finished programming, click on the “Disconnect” button at the bottom. Closing the program will also automatically disconnect the unit.



## C. Configuring the K-1775-IP Network Settings

<b>Step 1.</b>	Open the “Viking IP Programming” software on a windows PC that is connected to the same LAN as the <b>K-1775-IP Series</b> phone to be programmed.
<b>Step 2.</b>	The window in the upper left corner of the menu will show you each <b>K-1775-IP Series</b> phone that is connected to that LAN. Select the unit with the same MAC address shown on the label located on the top of the Ethernet connector on the <b>K-1775-IP Series</b> phone.
<b>Step 3.</b>	Click the “Connect” button. If a pop up window appears, enter the unit’s security code (factory set to <b>845464</b> ) then click “OK”.
<b>Step 4.</b>	The program will then read and display the <b>K-1775-IP Series</b> phone’s IP and programming settings.
<b>Step 5.</b>	Click on the “IP Settings” tab.
<b>Step 6.</b>	Select the appropriate value Static IP Settings or DHCP for “Set Unit IP Address via”. Note: changing the IP address will cause you to have to reconnect to the unit. Enter the values for the fields in “if DHCP fails” or “Static IP Settings” as needed.
<b>Step 7.</b>	Set the “Unit Name”, “Logging / Time Server Settings” as needed.
<b>Step 8.</b>	Select Peer-Peer in the “SIP Server / Peer to Peer Settings” to use the unit in Peer to Peer mode. Select Server to register with a SIP registrar server and fill in the “Outbnd Proxy” (SIP Outbound Proxy Server Address, “ip:port”), “Authentic. ID” (SIP Authentication ID), “Username” (SIP Username, <string>), “Password” (SIP Password), and “Caller ID” (SIP Caller ID) with values from your VoIP provider.

Viking IP Programming - V1.2.4 - K-1700-IP Series Mode

Name: VIKING\_MK64\_Vik02 MAC: 18:E8:0F:50:37:E5 IP: 192.168.210.5

Phone Numbers / Entry Codes / Log Phone Settings IP Settings VLAN Alarm / Firmware / Default / Tools

Set Unit IP Address via: DHCP Unit Name: VIKING\_MK64\_Vik02

If DHCP fails

After 1 minute, use: Last Known IP

After 2 Minutes, perform: reboot

Static IP Settings

Static IP Address: 192.168.154.1

Subnet Mask: 255.255.255.0

Static Gateway: 192.168.154.100

DNS Server IP:

Logging / Time Server Settings

Syslog Server: 192.168.154.100

NTP Server:

SIP Server / Peer to Peer Settings

Server: 192.168.0.101

Outbnd Proxy:

Authentic. ID:

Username:

Password:

Caller ID:

Gateway Ping / Registration Time / Codecs

Ping Timer (S): 10 Regist. Time (Min): 30

Codecs Order: G711u, G711a, G722

Register Fails: Re-Resolve

Disconnect

### Example 1: On-Premise SIP Phone System

(Panasonic TDE 100/200)

### Example 2: Cloud Based Service Provider

(Voip.ms)

### Example 3: Cloud Based Service Provider requiring Outbound Proxy and Authentication ID (RingCentral)

SIP Server / Peer to Peer Settings

Server: 192.168.0.101

Outbnd Proxy:

Authentic. ID:

Username: 117

Password: 9140

Caller ID: Door 1

Register Fails: Re-Resolve

SIP Server / Peer to Peer Settings

Server: chicago4.voip.ms

Outbnd Proxy:

Authentic. ID:

Username: 190106

Password: Bear987654!

Caller ID: Door 1

Register Fails: Re-Resolve

SIP Server / Peer to Peer Settings

Server: sip.ringcentral.com:5060

Outbnd Proxy: sip20.ringcentral.com:5090

Authentic. ID: 16572241020

Username: 17159644561

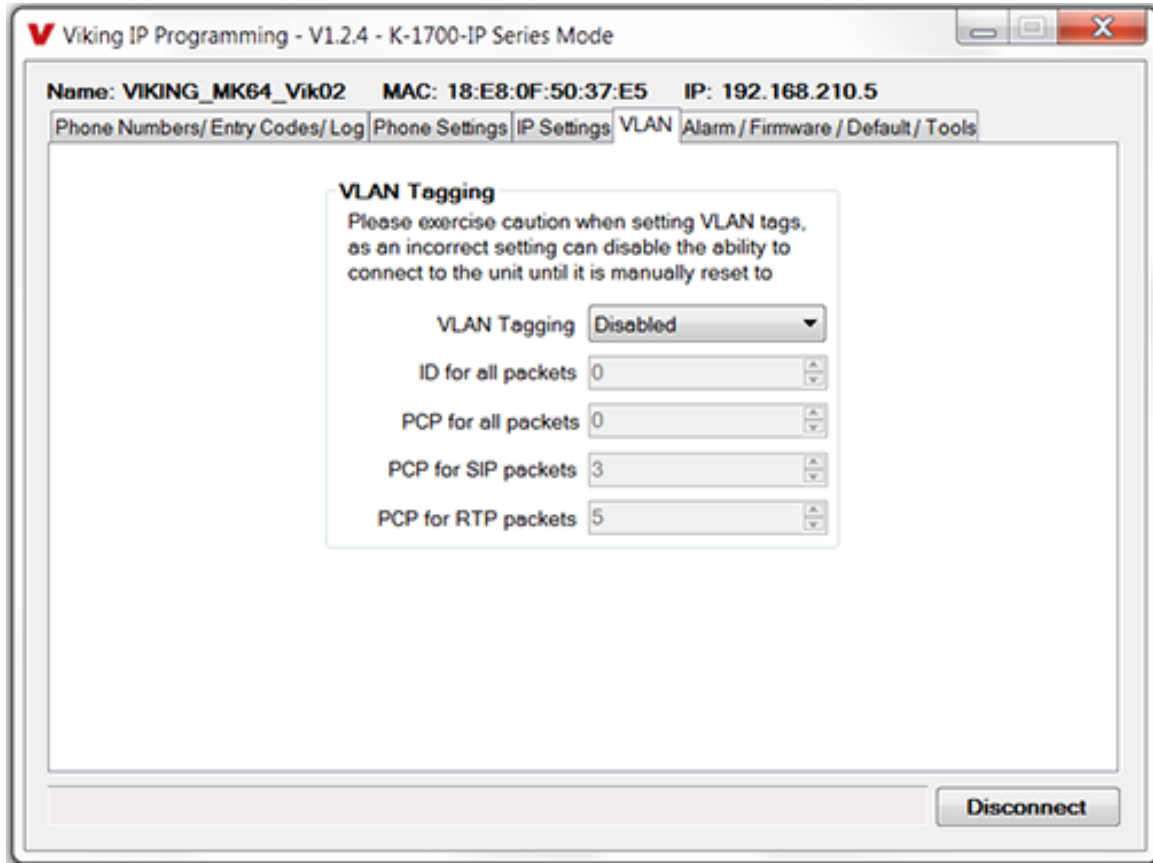
Password: 5j8QA28Lp

Caller ID: Door 1

Register Fails: Re-Resolve

## D. Configuring K-1775-IP VLAN Settings

<b>Step 1.</b>	Click on the "VLAN" tab
<b>Step 2.</b>	Disable or enable VLAN tagging by setting the value of "VLAN Tagging".
<b>Step 3.</b>	Set the VLAN tag ID by selecting an integer (1 to 4094) in "ID for all packets".
<b>Step 4.</b>	Set the Priority Code Point (PCP) value for all not SIP and RTP packets in the "PCP for all packets" input (0 is default, priorities are from low to high: 0, 1, 2, 3, 4, 5, 6, 7). Set the "PCP for SIP packets" (3 is default). Set the "PCP for RTP packets" (5 is default).



## E. Manually Resetting the Security Code to Enter Programming

<b>Step 1.</b>	Power down the <b>K-1775-IP Series</b> phone by disconnecting the LAN Cable (RJ45 plug).
<b>Step 2.</b>	Press and hold the Call button, then reconnect the LAN Cable (RJ45 plug).
<b>Step 3.</b>	Continue to hold Call button until you hear 2 beeps, (approximately 6 seconds). Then release the button. The LED will remain off for the first 3 seconds, flash slowly for 3 seconds then fast flash (after 2 beeps), indicating when to release button.
<b>Step 4.</b>	The security code is now reset to <b>845464</b> (factory default).
<b>Step 5.</b>	You can now enter programming by following the steps in section <b>B</b> .

## F. Manually Resetting All Network Parameters to Factory Default

<b>Step 1.</b>	Power down the <b>K-1775-IP Series</b> phone by disconnecting the LAN Cable (RJ45 plug).
<b>Step 2.</b>	Press and hold the Call button, then reconnect the LAN Cable (RJ45 plug).
<b>Step 3.</b>	Continue to hold the Call button until you hear 2 beeps, (approximately 6 seconds). Continue to hold Call button until you hear 4 more beeps, approximately 6 seconds later, then release the button. The LED will remain off for the first 3 seconds, flash slowly for 3 seconds (2 beeps), fast flash for 6 seconds (4 beeps), then light steady indicating when to release button.
<b>Step 4.</b>	You can now enter programming by following the steps in section <b>B</b> .

## Programming Features Index

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# Programming Features

## 1. Unit Name

Up to a 31 character unit name can be assigned to the **K-1775-IP Series** Phone being programmed.

## 2. SIP Server

Enter the IP address or URL of your SIP server or service provider in this field. The SIP server IP address is limited to 74 characters. **Note:** If an alternate SIP server IP address is programmed, the IP address for the SIP server and alternate SIP server will be limited to 31 characters. **Note:** If outbound proxy is not required, enter the SIP server IP address into the Outbnd Proxy field.

## 3. Peer to Peer Settings

When set to Peer to Peer mode, a SIP server is not used. The unit should be programmed with a Static IP Address and Username, a password is not used. Caller ID can be programmed if needed. Simply call the unit by entering the programmed "username@192.168...(Static IP address for the unit)". The static IP address is normally programmed into a page button on the VoIP telephones.

## 4. Outbound Proxy

If your SIP provider requires an outbound proxy IP address enter it in the Outbnd Proxy field. If outbound proxy is not required enter the SIP sever IP address into the Outbnd Proxy field. **Note:** If not required, this field must match your SIP server IP address.

## 5. Authentication ID

If your SIP provider requires Authentication ID, enter it in the Authentic. ID field. If Authentication ID is not required, leave this field blank.

## 6. Register Fails (Re-Resolve or Alternate Server)

When registered to a SIP server in the event that registration is lost you can program the unit to re-resolve using the current SIP server IP address or route pages through an alternate SIP server. With Alternate Server selected enter the IP address of the alternate SIP server in the field next to the Register Fails drop down box. **Note:** With an alternate SIP server IP address programmed, the IP address for the SIP server and alternate SIP server will be limited to 31 characters.

Viking IP Programming - V1.2.4 - K-1700-IP Series Mode

Name: VIKING\_MK64\_Vik02 MAC: 18:E8:0F:50:37:E5 IP: 192.168.210.5

Phone Numbers/ Entry Codes/ Log Phone Settings IP Settings VLAN Alarm / Firmware / Default / Tools

Phone Number Database  
(Program Phone Numbers and Speed Dial Codes)

Event Log  
(View a list of the Events Logged by the Unit)

Entry Code Database  
(Program Keyless Entry Codes and Proximity Card Numbers)

Wiegand Settings  
Wiegand Direction Inbound  
Facility Code (Outbound)

Logging Options  
☒ Log Dialpad and Keyless Code Entry Errors  
☐ Display Live Logging Data When Connected

Time Zone Settings  
Time Zone (UTC - 06:00) CST  
Daylight Saving Time Enabled  
DST Begins 2nd Sunday of March  
DST Ends 1st Sunday of November  
Read NTP Base Time Mon 4 Feb 2019 13:32

Phone Codes  
Security Code (6 digits) 845464  
Access Code (0-6) 123456

Disconnect

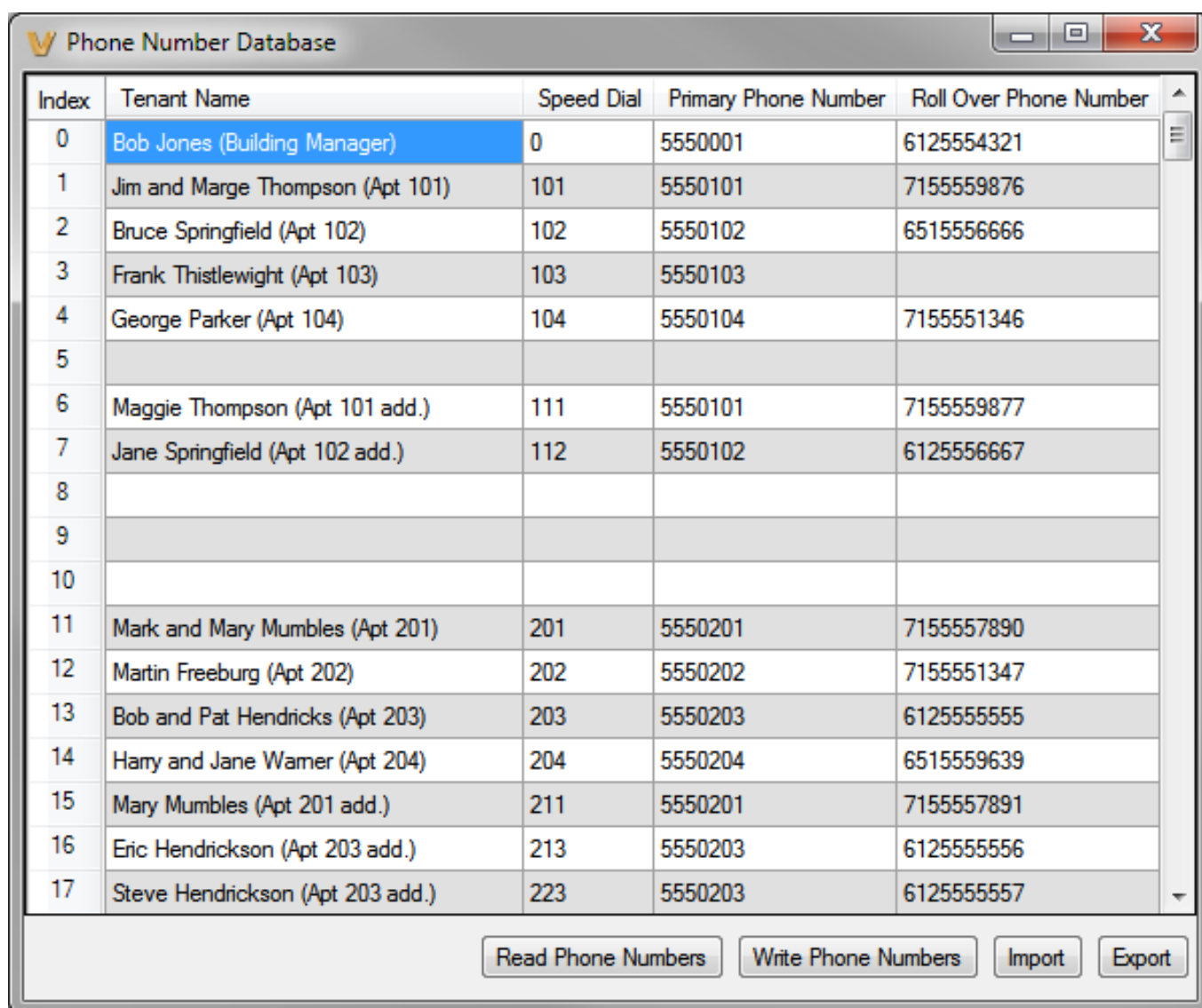
## 7. Phone Number Database

Clicking on the “Phone Number Database” button will open a screen allowing you to program all the Tenants Name’s, Speed Dial Numbers, and Primary and Roll Over phone numbers. Tenant names are stored locally on the PC and are not uploaded.

The Speed Dial Number is the 1 to 3 digit number visitors enter on the **K-1775-IP**’s keypad for the unit to call the tenant. 3 seconds after the 1 to 3 digit number is entered, the unit will then dial the Primary Phone Number associated with that Speed Dial Number. If there is no answer or a busy signal is detected, the **K-1775-IP** will then dial the Roll Over Phone Number.

The Primary Phone Number programmed in Index 0 is the number that is dialed when the “CALL” button is pressed with no additional digits (if “Call Button Autodial” is enabled). A second Roll Over Number will be dialed when there is no answer or a busy signal is detected. The **K-1775-IP** phone is factory set with no Primary or Roll Over numbers programmed.

**Note:** Typical Apartment Applications use the tenant’s 1 to 3 digit apartment number as the Speed Dial Number. After the apartment number is entered the unit will then dial the tenant’s phone number.

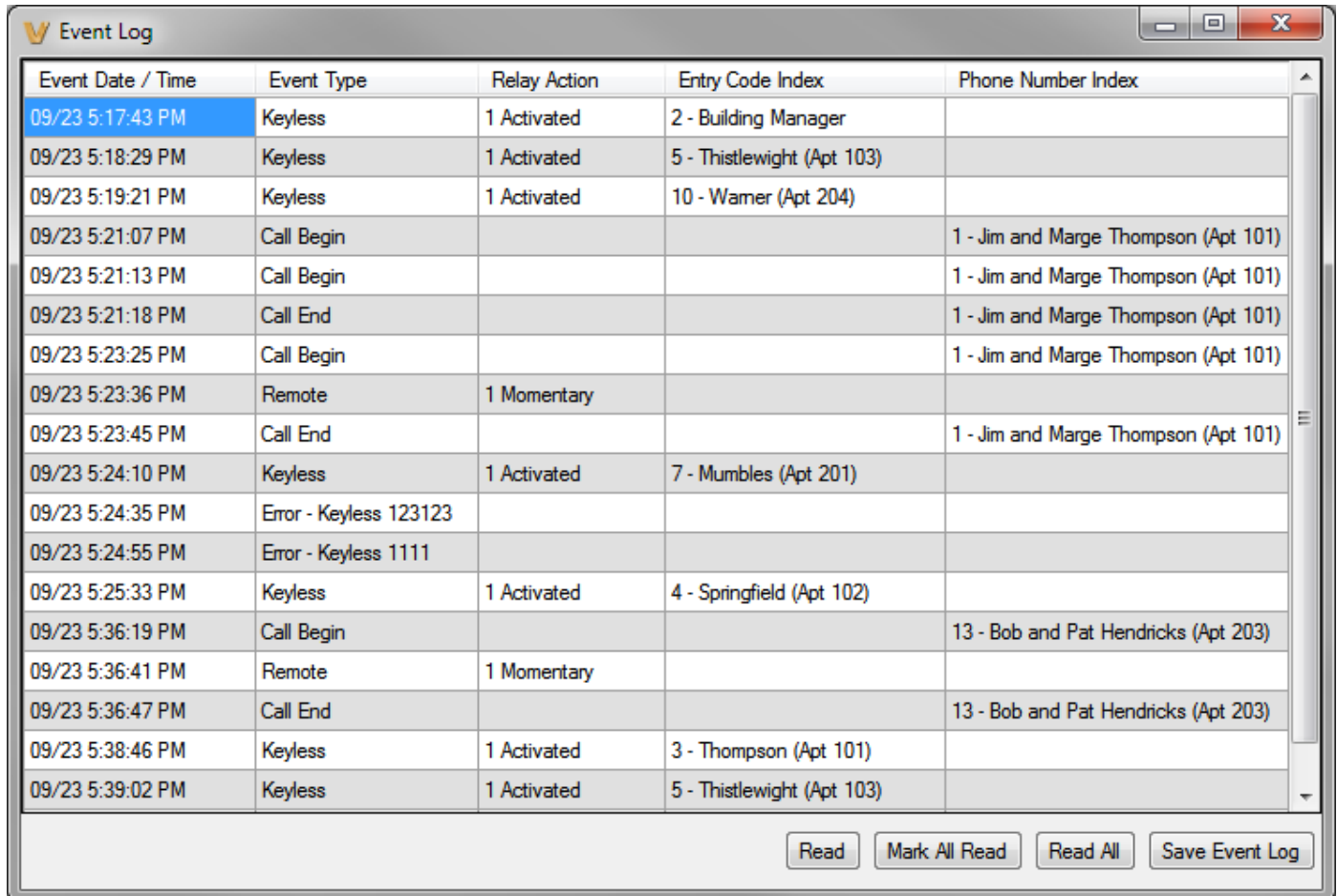


Index	Tenant Name	Speed Dial	Primary Phone Number	Roll Over Phone Number
0	Bob Jones (Building Manager)	0	5550001	6125554321
1	Jim and Marge Thompson (Apt 101)	101	5550101	7155559876
2	Bruce Springfield (Apt 102)	102	5550102	6515556666
3	Frank Thistlewright (Apt 103)	103	5550103	
4	George Parker (Apt 104)	104	5550104	7155551346
5				
6	Maggie Thompson (Apt 101 add.)	111	5550101	7155559877
7	Jane Springfield (Apt 102 add.)	112	5550102	6125556667
8				
9				
10				
11	Mark and Mary Mumbles (Apt 201)	201	5550201	7155557890
12	Martin Freeburg (Apt 202)	202	5550202	7155551347
13	Bob and Pat Hendricks (Apt 203)	203	5550203	6125555555
14	Harry and Jane Warner (Apt 204)	204	5550204	6515559639
15	Mary Mumbles (Apt 201 add.)	211	5550201	7155557891
16	Eric Hendrickson (Apt 203 add.)	213	5550203	6125555556
17	Steve Hendrickson (Apt 203 add.)	223	5550203	6125555557

Read Phone Numbers Write Phone Numbers Import Export

## 8. Event Log

The Event Log button is used to open the Event Log screen. The Event Log screen shows you the time and date of each event, the event type, relay action (which door/gate was opened or closed), entry code index and phone number index with tenant name. The Event Log can store up to 4,095 events. Events are stored in a first in first out format. When the memory is full, new events will over write the oldest events. The Event log can be saved in one of two file formats: Tab Delimited Text or Comma Separated Variable.



Event Date / Time	Event Type	Relay Action	Entry Code Index	Phone Number Index
09/23 5:17:43 PM	Keyless	1 Activated	2 - Building Manager	
09/23 5:18:29 PM	Keyless	1 Activated	5 - Thistlewright (Apt 103)	
09/23 5:19:21 PM	Keyless	1 Activated	10 - Warner (Apt 204)	
09/23 5:21:07 PM	Call Begin			1 - Jim and Marge Thompson (Apt 101)
09/23 5:21:13 PM	Call Begin			1 - Jim and Marge Thompson (Apt 101)
09/23 5:21:18 PM	Call End			1 - Jim and Marge Thompson (Apt 101)
09/23 5:23:25 PM	Call Begin			1 - Jim and Marge Thompson (Apt 101)
09/23 5:23:36 PM	Remote	1 Momentary		
09/23 5:23:45 PM	Call End			1 - Jim and Marge Thompson (Apt 101)
09/23 5:24:10 PM	Keyless	1 Activated	7 - Mumbles (Apt 201)	
09/23 5:24:35 PM	Error - Keyless 123123			
09/23 5:24:55 PM	Error - Keyless 1111			
09/23 5:25:33 PM	Keyless	1 Activated	4 - Springfield (Apt 102)	
09/23 5:36:19 PM	Call Begin			13 - Bob and Pat Hendricks (Apt 203)
09/23 5:36:41 PM	Remote	1 Momentary		
09/23 5:36:47 PM	Call End			13 - Bob and Pat Hendricks (Apt 203)
09/23 5:38:46 PM	Keyless	1 Activated	3 - Thompson (Apt 101)	
09/23 5:39:02 PM	Keyless	1 Activated	5 - Thistlewright (Apt 103)	

## 9. Entry Code Database

Clicking on the “Entry Code Database” button will open the Entry Code Database screen.

The Entry Code Database will then download, this can take over a minute. The Entry Code Database will allow you to program the Relay Function, Relay 1 or 2, once only (one time use only), Entry Type (Card, Keyless or both), Keyless Code, Proximity Card #, Facility Code, Day of week, Time of Day and Tenant Name. Tenant names are stored locally on the PC and are not uploaded. When Card and Keyless is selected, a valid proximity card must be presented and the keyless code entered within 15 seconds.

Entry Code Database

Index	Relay Function	Relay 1	Relay 2	Once Only	Entry Type	Keyless Code	Card No.	Facility	Su	Mo	Tu	We	Th	Fr	Sa	Start	Stop	Tenant Name
1	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Card Only		1000	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Building Manager
2	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keyless Only	101010	0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Building Manager
3	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keyless Only	55101	0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Thompson (Apt 101)
4	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keyless Only	55102	0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Springfield (Apt 102)
5	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keyless Only	55103	0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Thistlewright (Apt 103)
6	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keyless Only	55104	0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Parker (Apt 104)
7	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keyless Only	55201	0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Mumbles (Apt 201)
8	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keyless Only	55202	0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Freeburg (Apt 202)
9	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keyless Only	55203	0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Hendricks (Apt 203)
10	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keyless Only	55204	0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Wamer (Apt 204)
11	Latch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Card + Keyless	123123	1000	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Latch Open (Moving)
12	Un-Latch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Card + Keyless	911911	1000	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	Emergency Lockdown
13		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	
14	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keyless Only	1111	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1:00 PM	4:00 PM	Decorator for Apt 204
15	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Keyless Only	2222	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8:00 AM	8:00 PM	Cable Tech for Apt 102
16	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Keyless Only	2222	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8:00 AM	8:00 PM	Cable Tech for Apt 102 (2nd)
17	Momentary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Keyless Only	2222	0	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8:00 AM	8:00 PM	Cable Tech for Apt 102 (3rd)
18		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			0	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:00 AM	11:59 PM	

Read Entry Codes

Write Entry Codes

Import

Export

## 10. Keyless/Card Logging

Keyless Entry Code and Proximity Card logging can be set to Log Errors. With Log Errors selected, (factory setting) the **K-1775-IP** will not only log all valid Keyless Entry Code and Proximity Card entries, but also log any errors, incorrect codes, or non-valid card reads.

Keyless Entry Code and Proximity Card logging can also be set to Live Logging. With Live logging selected and the **K-1775-IP** programming software open and connected to a unit, each Keyless Entry Code entered or Proximity Card read will immediately open the Event Log screen and display the latest entry.

## 11. Security Code

The security code allows the user/installer to program the **K-1775-IP Series** Phone. It is recommended that the factory set security code be changed. **Factory Setting:** 845464

**Note:** The security code must be 6 digits and cannot include a \* or a #.

## 12. Access Code

The Access Code is used for remotely operating the relays (Doorstrike, Mag-Lock, etc) by calling into the unit. This code provides basic security and only allows operation of the relays and not the ability to change any of the programming parameters. Once entered, any of the “Remote Access Operation Commands” can be used. The code can be 1 - 6 digits in length and cannot contain a “\*” or “#”. Simply call the **K-1775-IP** phone, the unit will automatically answer the line and output one beep. You then enter the programmed 1 - 6 digit access code, 2 beeps should be heard. You can now enter any “Remote Access Operation Commands” (Operation Section C). This code will also enable audio to/from the speaker and the caller. The access code can be cleared (by leaving the field blank) if this additional level of security is not required. **Factory Setting:** 123456

### 13. Wiegand Direction

Wiegand Direction allows you to decide if the 26 bit Wiegand connection will be used as an input or an output. The default setting for direction is “Inbound” and this is the correct setting if you intend to connect a card reader or Wiegand keypad device to the wiegand connections.

When the direction is set to “outbound”, the 26 bit Wiegand connections become an output and can be connected to the card reader input on the access control system. Unprogrammed keyless entry codes dialed by the user on the keypad are then sent over the Wiegand output. When the user dials “#” plus a entry code that is not programmed in the Entry Code Database, the code dialed by the user is sent over the Weigand output along with the facility code selected. Since Wiegand data limits the entry code to 65535 maximum, “#” plus entry codes higher than 65535 are not sent over the Wiegand output. When the user dials “#” plus a valid keyless entry code that is programmed in the Entry Code Database, the code dialed by the user is not sent over the Wiegand output and the Local / External relay is activated.

### 14. Select Time Zone

When using date and time logged events or setting the access date and times of keyless codes or proximity cards in the Entry Code Database, you must program the unit to your time zone. Example: You are installing the **K-1775-IP** in the Central standard time zone: Select (UTC - 06:00) CST, which is 6 hours behind Coordinated Universal Time (UTC).  
**Factory Setting:** CST

### 15. Daylight Savings

The Daylight Savings Time programming can be enabled or disabled and can be programmed to start on any Sunday in March and stopped on any Sunday in November. Currently, daylight saving time starts on the second Sunday in March and ends on the first Sunday in November, with the time changes taking place at 2:00AM local time.

**Factory Setting:** Enabled

The screenshot shows the 'Viking IP Programming - V1.2.4 - K-1700-IP Series Mode' window. At the top, it displays the device name 'VIKING\_MK64\_Vik02', MAC address '18:E8:0F:50:37:E5', and IP address '192.168.210.5'. Below this is a tabbed interface with 'Phone Numbers / Entry Codes / Log' selected. The settings are organized into two columns. The left column includes settings for Relay 1 and Relay 2, such as 'Int / External' (both set to 'Internal'), 'Relay Mode' (both 'Door Strike'), 'Act.' (both '\*\*'), 'Act. Time' (both '5 sec'), 'Relay Activation Delay' (set to 'Disabled'), 'Relay Buzz Volume' (set to '3'), 'Relay Latch Commands' (set to 'Enabled'), 'Speaker Mode' (set to 'On'), 'Speaker Volume' (set to '3'), 'Ring Volume' (set to '5'), and 'Microphone Volume' (set to '5'). The right column includes settings for 'In-Band Audio Call Progress' (set to 'Enabled'), 'In-Band Audio Detect' (set to '5'), 'Talk / Listen Delay (VOX)' (set to '.5 sec'), 'Phone Mode' (set to 'AutoDialer'), 'Call Length Timeout' (set to '3 min'), 'Inbound Call Mode' (set to 'Auto Answer'), 'Ring Cadence' (set to 'Normal Ring'), 'Dial Next No. on Ring No' (set to '7'), 'Dial Next Number on Busy' (set to 'Enabled'), 'In Call Dialing Format' (set to 'RFC 2833'), 'Call Button Delay' (set to '3 sec'), and 'Call Button Autodial' (set to 'Enabled'). A 'Disconnect' button is located at the bottom right of the settings area.

### 16. Relay 1 or 2 Internal / External

With relay 1 and/or 2 set to “Internal” the **K-1775-IP** will activate its on board relays for doorstrike / gate control. Relay 1 and/or 2 should be set to “External” for higher security installations when using a Viking model **RC-4A** remote relay controller to activate the doorstrike / gate controller (see page 25). **Note:** With relays set to external the internal on board relays will also activate at the same time as the external relays. **Factory Setting:** Internal

## 17. Relay Mode

**Doorstrike Mode (Factory Setting):** When programmed for Doorstrike Mode the relay will momentarily activate for the preprogrammed relay activation time after detecting the correct relay activation command (one or two digit touch tone) from the called party.

**Outbound Call Mode:** When programmed for Outbound Call Mode the relay will activate continuously for the duration of any outbound call from the Entry phone.

**Inbound/Outbound Call Mode:** When programmed for Inbound/Outbound Call Mode the relay will activate continuously for the duration of any inbound or outbound call to or from the Entry phone. This mode is useful for turning on IR flood lights, for VoIP phones with cameras, etc.

**Doorbell Mode:** When programmed for Doorbell Mode the relay will momentarily activate the relay for the preprogrammed relay activation time at the beginning of any outbound call from the Entry phone. This mode is useful for activating a door chime, etc. When activating door chimes, a 0.5 - 1 second relay activation time is recommended.

**Alarm Mode:** When programmed in Alarm Mode the relay will activate continuously while the Entry phone is powered and registered to the SIP server. In the event the unit loses power and/or SIP registration the relay will turn off, which can be used to signal an alarm device.

**Ring Mode:** When programmed for Ring Mode the relay will continuously activate while the ringing extension is called. This mode is useful for activating a Viking model **SL-2** strobe light, etc.

**Ring Flash Mode:** When programmed for Ring Flash Mode the relay will momentarily turn on and off in a 400ms on/off cadence while the ringing extension is called. This mode is useful for activating a Viking **LPL-1** Remote Visual Indicator, etc.

## 18. Relay 1 or 2 Act (Activation) Command

The one or two digit code stored in the Relay Activation Command is the touch tone command that the person being called must enter on their phone in order to actuate relay 1 or 2 to control a doorstrike, mag-lock, gate controller, or other device. The code can contain the numbers 0 - 9, 00 - 99, ## or \*\*. The code cannot match a relay latching or toggle command (11, 10, 1#, 21, 20, or 2#). The code must be entered while the remote phone is communicating with the Entry phone. The Entry phone determines which direction the touch tone is coming from and only responds to touch tones from the called phone. **Factory Setting:** Relay 1 - \*\*, Relay 2 - \*2

## 19. Relay 1 or 2 Activation Time

The value stored in the Relay 1 or 2 Activation Time is the amount of time relay 1 or 2 will be energized after a correct touch tone command is entered. This number can range from 0.5 - 99 seconds. **NOTE:** *This also affects timing in Doorbell Mode.* **Factory Setting:** 5 seconds

## 20. Relay Activation Delay

A relay activation delay of 0.5 - 99 seconds can be programmed in the **K-1775-IP**. A relay activation delay is useful in two door vestibule entrance applications. This allows you to program a delay time from when relay 1 (outside door) is activated to when relay 2 (inside door) is activated. The programmed delay time should be set to the average time it takes a person to walk from the outside door to the inside door.

When a request for exit (REX) is activated, relay 2 will activate first, then after the programmed delay relay 1 will activate. **Factory Setting:** Disabled

## 21. Relay Buzz Volume

The relay activation tone is a buzzing sound that is heard at the Entry phone when the door strike relay is activated. After the called party enters the correct relay activation command, the called party will hear 2 short confirmation beeps and the entry phone will output a buzzing sound (relay activation tone) while the door strike relay is activated. The tone (buzz) length will match the relay activation time up to a maximum of 5 seconds. The tone (buzz) can be programmed to three different volume settings 1 = Low, 2 = Medium, 3 = High or it can be disabled. **Factory Setting:** 3

## 22. Relay Latch Commands

When set to “Enabled” the Remote Access Operation Commands to Un-Latch or Latch the relay are enabled.

When set to “Disable” the Remote Access Operation Commands to Un-Latch or Latch the relay are disabled. Disabling the Latch commands can be useful in applications where you want to eliminate the possibility of inadvertently entering a latch command leaving a gate open/closed, etc. The relays can still be activated with the “Relay Activation Command” for momentary closures. **Factory Setting:** Enabled

## 23. Speaker Mode

The Speaker Mode will be set to one of the following two modes. This is selected automatically based on Inbound Call Mode.

**OFF/Silent Monitoring Mode:** In the “OFF” mode the speaker is disabled on inbound calls. However, the speaker can be enabled after communication has been established by entering touch tone command “9#”. The speaker will then remain on for the duration of the call.

**ON (Factory Setting):** In the “ON” mode the speaker is enabled during In-bound and Out-bound calls.

## 24. Speaker Volume

The speaker volume can be set from 0 - 9, 0 = lowest volume setting, 9 = highest volume setting. Alternatively the speaker can be turned off for silent monitoring (see Speaker Mode section 23). **Factory Setting:** 3

## 25. Ring Volume

The Ring Volume can be set from 0 - 9. 1 = the lowest volume, 9 = the highest volume and 0 = disabled. When set to “Disabled” the extension will ring when called but no ringing will be heard from the speaker. The call can be answered by momentarily pressing the call button. **Factory Setting:** 5

## 26. Microphone Volume / Automatic Noise Cancelling Mode

The microphone volume can be set from 1 - 9, 1 = lowest volume setting, 9 = the highest volume setting. Alternatively the microphone can be placed in the “Auto” (Automatic Noise Cancelling) mode. With the mic in the Auto mode, when background noise increases, the mic gain will automatically decrease. When background noise decreases the mic gain will automatically increase. The Auto mode is useful in applications where the background noise level can change drastically such as a gas car running vs a diesel truck. **Factory Setting:** 5 seconds

## 27. In-Band Audio Call Progress

The In-Band Audio Call Progress Detection can be set to enabled or disabled. In-Band Audio Call Progress detection should be enabled in applications where you are making an outbound call through your VoIP phone system and are relying on In-Band analog audio for ringback or busy detection. **Factory Setting:** Enabled.

## 28. In-Band Audio Detect Sensitivity

The In-Band Audio Detect level (Sensitivity) can be set from 1 - 9, 1 = minimum setting, 9 = highest setting. Increasing or decreasing the sensitivity may be required in applications where you are making an outbound call through your VoIP phone system and are relying on In-Band analog audio detection. **Factory Setting:** 5

## 29. Talk / Listen Delay (VOX)

This feature selects switching time between talk and listen modes (VOX switching time). The Talk/Listen Delay can be programmed from 0.1 - 0.9 seconds. **Factory Setting:** 0.5 seconds

## 30. Phone Mode

The Phone Mode can be programmed to one of two settings: Auto Dialer or Manual Dial Phone. When set to Auto Dialer the **K-1775-IP** will auto dial any preprogrammed phone numbers stored in the Phone Number Database when the corresponding Speed Dial Number (example: apartment number) is entered on the unit's keypad. When set to Manual Dial Phone the unit's auto dialing features are disabled and the unit functions as a standard VoIP speaker phone. Pressing the call button will take the phone off hook allowing you to manually dial the phone number on the keypad. Keyless entry codes can be used in either mode. **Factory Setting:** Auto Dialer

### 31. Call Length Time Out

This feature selects the maximum length of time that calls can be connected. Programmable in increments of 1 minute up to a maximum of 9 minutes or disabled. With the call length disabled, the **K-1775-IP** phone must rely on a call ended signal or a busy signal to hang-up. **Factory Setting:** 3 minutes

**Note:** *Timer starts after call is connected. If call is not answered (and ring no answer disabled) there is a default 7 minute timer.*

### 32. Inbound Call Mode

The Inbound Call Mode determines how the **K-1775-IP** handles incoming SIP calls. One option is to generate a loud ring sound through the speaker. The **K-1775-IP** Phone can also auto answer a SIP call to transmit a page, control the relay or listen to transmit audio from the microphone. The last option is the silent monitor mode, which allows callers to listen to the transmit audio from the microphone. The “secure” options for auto answer require the callers to dial the access code in order to transmit a page, activate the relay or activate the optional **RC-4A** relays.

**Factory Setting:** Auto Answer

**Disabled:** In the “Disabled” mode the phone will not automatically answer an incoming call.

**Auto Answer:** In the “Auto Answer” mode the phone will automatically answer an incoming call on the first ring.

**Auto Answer Secure** – Inbound calls are auto answered and the caller must dial the access code in order to listen or talk on the unit.

**Ring:** In the “Ring” mode the phone will not automatically answer an incoming call but will output a ring signal out of the speaker in a 2 seconds on, 4 seconds off ring pattern (other ring cadences are available, see “Ring Cadence” Section). The call can then be answered by momentarily pressing the call button.

**Ring with AGC:** In the “Ring with AGC” mode the phone will not automatically answer an incoming call but will output a ring signal out of the speaker in a 2 seconds on, 4 seconds off ring pattern (other ring cadences are available, see “Ring Cadence “ Section). The phone will automatically increase or decrease the ring volume based on background ambient noise. The call can then be answered by momentarily pressing the call button.

**Silent Monitor** – Inbound calls are auto answered and the caller hears transmit audio from the microphone at a much higher volume level.

**Silent Monitor Secure** – Inbound calls are auto answered and the caller must dial the access code in order to listen to transmit audio from the microphone (volume level is still at a much higher volume level).

### 33. Ring Cadence

When “Inbound Call Mode” on the **K-1775-IP** is set to “Ring” or “Ring with AGC” the Ring cadence can be programmed to one of 4 different cadences. **Factory Setting:** Normal ring

**Normal Ring** (single ring, 2 seconds on 4 seconds off) factory setting

**Double Ring** (double ring, 1 second on 0.5 seconds off 1 second on 3.5 seconds off)

**Short-Short-Long** (triple ring, 0.5 seconds on 0.5 seconds off 0.5 seconds on 0.5 seconds off 1 second on 3 seconds off)

**Short-Long-Short** (triple ring, 0.5 seconds on 0.5 seconds off 1 second on 0.5 seconds off 0.5 seconds on 3 seconds off)

### 34. Dial Next number on Ring No Answer

If enabled and a ring-no-answer is detected, the **K-1775-IP** phone will dial the “Roll Over” speed dial number after the programmed amount of rings. A momentary press of the call button will dial the first programmed Speed Dial number. This can be set from 1 - 9 rings. **Factory Setting:** 7 (will redial after 7 rings)

### 35. Dial Next Number on Busy

If enabled and a busy is detected, the **K-1775-IP** phone will dial the “Roll Over” speed dial number.

**Factory Setting:** Enabled

**Note:** If the busy signal is interrupted with a promotional message, contact your central office to have it removed.

## 36. In Call Dialing Format

The In Call Dialing Format can be set to In-Band DTMF (Touch Tones) or RFC 2833 (Out of Band DTMF Touch Tones). In Call dialing refers to the numbers dialed (from the **K-1775-IP**'s keypad). after an outbound call has been answered by the distant party. This would typically be the numbers dialed to steer through automated attendants, voice mail, etc. If your VoIP phone system does not automatically convert out of band DTMF to In-Band after the call is answered, set In Call Dialing Format to "Inband DTMF". **Factory Setting:** RFC 2833

## 37. Call Button Delay

The Call Button Delay is the length of time from when the Call button is pressed to when the unit starts dialing the Primary number programmed in Phone Number Database Index 0. The time is programmable from 0 - 20 seconds. Adding Call Button Delay time is useful to allow visitors time after they have pressed the Call button to then enter the tenant's apartment number (Speed Dial Number) or their Keyless Entry Code. Keyless codes can also be entered without pressing the call button. **Factory Setting:** 3 seconds

## 38. Call Button Auto Dial

The Call Button Auto Dial feature allows visitors that do not know the tenant's apartment number (Speed Dial Number) a way of simply pressing the Call button with no additional numbers entered. After the Call Button Delay the unit will automatically dial the Primary Phone Number stored in Phone Number Database Index 0. This could route the call to the building manager, care taker, receptionist, etc. **Factory Setting:** Enabled

The screenshot displays the 'Viking IP Programming - V1.2.4 - K-1700-IP Series Mode' window. At the top, it shows the unit name 'VIKING\_MK64\_Vik02', MAC address '18:E8:0F:50:37:E5', and IP address '192.168.210.5'. Below this is a tabbed interface with the following sections:

- Dynamic IP Settings:** Includes fields for Unit IP Address (192.168.210.5), Subnet Mask (255.255.255.0), and Gateway IP Address (192.168.210.18). A note states: 'These are the current / last known good IP addresses'.
- Firmware Versions:** Shows IP version 'R6.35.1834' and Unit version 'V2.0', each with an 'Update' button.
- Import / Export:** Contains 'Import Data' and 'Export Data' buttons.
- SIP / Network Failure Alarm:** Shows 'SIP Registration Status' as 'Not Registered'. The 'Current Alarm Status' is 'Activated - SIP' (highlighted in red). There is an 'Alarm Muted' checkbox and a 'Mute Current / Next' button. The 'Permanent Alarm Mute' is set to 'Alarm Tones Enabled'. A note at the bottom states: 'Alarm can be triggered by unit failing to register with SIP server, Gateway ping failure, or IP address conflict (if unit forced to use static)'.
- Default Unit Settings:** Includes 'Clear Unit Settings' and 'Clear IP Settings' buttons.
- Diagnostics:** Features 'Test Relay 1', 'Test Relay 2', and 'Read Status' buttons. It also has a 'Last Read Relay Status' field, a 'Test Mic/Spk' button, and a 'Read Card #' button.

A 'Disconnect' button is located at the bottom right of the window.

## 39. Mute Current / Next Alarm

A network failure alarm will be indicated by providing 3 beeps every 30 seconds. A network failure indicates the unit is not registered to the SIP server or there is a communication failure with the gateway. The three beeps can be muted by clicking on "Mute Current / Next Alarm". The Status LED will continue to flash to assist troubleshooting. The alarm beeps can also be permanently disabled. See Permanent Alarm Mute.

## 40. Permanent Alarm Mute

Selecting “Alarm Tones Disabled” will mute all alarm tones indefinitely. To re-enable alarm tones select “Alarm Tones Enabled”. **Factory Setting:** Alarm Tones Enabled

## 41. IP Firmware

If new **K-1775-IP** firmware is available, after opening the programming software a pop window will come up asking you if you would like to update firmware. An alternative method of updating can be done by clicking the IP firmware “Update IP” button. You can then browse to the folder that contains the PIP file for updating the unit’s IP firmware. This method is typically only used when Viking Technical Support has sent you updated IP firmware.

## 42. Unit Firmware

If new **K-1775-IP** firmware is available, after opening the programming software a pop window will come up asking you if you would like to update firmware. An alternative method of updating can be done by clicking the Unit firmware “Update Unit” button. You can then browse to the folder that contains the HEX file for updating the unit’s firmware. This method is typically only used when Viking Technical Support has sent you updated firmware.

## 43. Import/Export

The Import/Export feature is useful for backing up all the **K-1775-IP’s** programming or for importing programming when installing multiple units with a majority of the same programming.

## 44. Clear Unit Settings

Clicking on the “Clear Unit settings” button in programming will reset all of the Programming Features back to their factory default settings. **Note:** *This command will not change or reset your IP settings.*

## 45. Clear IP Settings

Clicking on the “Clear IP Settings” will reset all of the IP settings back to their factory default settings. This also clears paging Group settings and Addresses. **Note:** *This will not effect any speaker or paging settings.*

## 46. Diagnostics

The Diagnostics section in the Viking IP Programming can be used to test the functionality of the two relays, read current relay status, perform mic/spkr diagnostics, or to display information on the last card or fob detected by the card reader.

## 47. REX Input

The **K-1775-IP** has one Request for Exit (REX) trigger input. The REX switch must have a momentary, normally open contact. When the **K-1775-IP** detects a contact closure on the REX trigger input it performs one of the following actions, based on the Relay Mode settings (Programming Section 17):

**Relay 1 "Door Strike", relay 2 other:** Relay 1 will be activated for the programmed Relay 1 Activation Time.

**Relay 1 other, relay 2 "Door Strike":** Relay 2 will be activated for the programmed Relay 2 Activation Time.

**Relay 1 "Door Strike", relay 2 "Door Strike":** If the Relay Activation Delay is disabled, Relay 2 will be activated for the programmed Relay 2 Activation Time. If Relay Activation Delay is not disabled, Relay 2 will be activated for the programmed Relay 2 Activation Time, then after the Relay Activation Delay time has passed, Relay 1 will be activated for the programmed Relay 1 Activation Time. This is useful in two door vestibule applications where Relay 1 is used to unlock the outside door, and Relay 2 is used to unlock the inside door. **Note:** *For security reasons this input is disabled when the relay is set to “External”.*

## A. Making a Call

The **K-1775-IP Series** phone can be programmed to function as a single number auto dialer, a multi-number dialer or a manual dial phone. The operation for the user depends on which mode it is running.

### Single Number Auto Dialer (Phone Mode set to “AutoDialer” and the Call Button AutoDial set to “enabled”)

With the Call Button Delay set to “No Delay”, when the “CALL” button is pressed, the **K-1775-IP Series** phone will immediately dial the primary phone number programmed in the Phone Number Database Index 0. If there is no number programmed in the Phone Number Database Index 0 position, the user will get a simulated busy signal when the “CALL” button is pressed. “#” plus a keyless entry code can be dialed while the phone is hung up. Proximity cards can be scanned at any time, even while a call is in progress. The Call Button Delay can be set to a delay of 1 - 20 seconds in this mode, if you wish to allow users to press the “CALL” button and dial “#” plus a valid keyless entry code, instead of being sent to the phone number in the Phone Number Database Index 0.

### Multi-Number Auto Dialer (Phone Mode set to “AutoDialer” and a delay time selected for Call Button Delay)

With the Call Button Delay set from 1 - 20 seconds, when the “CALL” button is pressed, the user will hear 1 - 20 seconds of dial tone, allowing them time to enter the 1-3 digit Speed Dial number (0 - 999). The unit will then dial the Primary Phone Number associated with the selected 1-3 digit Speed Dial Number (0 - 999). In the event the line is busy or ring-no-answer, the unit can be programmed to call a second roll over number. If Call Button AutoDial is enabled, users that don't dial digits on the keypad during the provided dial tone will be automatically sent to the phone number programmed into Phone Number Database Index 0. If Call Button AutoDial is disabled, users that don't dial digits on the keypad will hear 3 beeps after the provided dial tone. “#” plus a keyless entry code can be entered while the phone is hung up, or as the first digits dialed after pressing the “CALL” button. Proximity cards can be scanned at any time, even while a call is in progress. A user that dials “\*” on the keypad will automatically be sent to the phone number programmed into Phone Number Database Index 0.

### Manual Dial Phone (Phone Mode set to “Manual Dial Phone”)

When the “CALL” button is pressed in the Manual Dial Phone mode, the user hears dial tone. Any keypad entries dialed by the user are gathered and sent to the SIP phone system, just like a standard VoIP phone. Proximity cards can be scanned at any time, even while a call is in progress.

In any of the above modes, relay activation commands can be entered or “#” can be dialed (from the remote phone only) to force the phone to hang-up.

After communication is established, enter the 1 or 2 digit relay activation command (factory set to “\*\*” for Relay 1 and “\*2” for Relay 2) to momentarily activate the entry phone (door strike) relay. Two beeps will be heard confirming that the relay has been activated. If you require the relay to remain on continuously (ie: a truck delivery), enter Touch Tones “11” or “21” to continuously activate relay 1 or relay 2 respectively. A double beep will indicate that the relay is latched on. When the visitor calls in again (ie: they are finished unloading the truck), enter Touch Tones “10” or “20” to deactivate relay 1 or relay 2 respectively. A single beep will indicate the relay is latched off.

**\*Note:** Relay latch Commands can be disabled in programming.

## B. Inbound Calls

How inbound calls are handled is determined by the Inbound Call Mode and these are the available options (see Inbound Call Mode Programming Section 32 for more details):

**Disabled** - Inbound calls are blocked. Users will get busy or reorder tone if they attempt to call.

**Auto Answer or Auto Answer Secure** – The **K-1775-IP Series** phone auto answers the inbound call and the caller can listen to transmit audio from the microphone at a normal volume level or remotely control the door strike relays if desired. In the “Secure” mode, the caller must dial the access code in order to listen to microphone audio or control relays.

**Silent Monitor or Silent Monitor Secure** – The **K-1775-IP Series** phone auto answers the inbound call and the caller can listen to transmit audio from the microphone at a much louder volume than normal or remotely control the door strike relays if desired. The louder volume allows the caller to listen to sounds or conversations occurring around the phone. In the “Secure” mode, the caller must dial the access code in order to listen to microphone audio or control relays.

**Ring** – Inbound calls generate a ring through the the speaker of the phone at an adjustable volume level (Ring Volume). Someone must press the “CALL” button to answer the call.

**Ring with AGC** – Inbound calls generate a ring through the speaker of the phone at an adjustable volume level (Ring Volume). The phone will automatically increase or decrease the ring volume based on background ambient noise. Someone must press the “CALL” button to answer the call.

## C. Remote Access Operation Commands

The following commands can be entered after answering an inbound call from the entry phone. The commands can also be entered on an outbound call to the entry phone. After the entry phone auto answers the call, one or two beeps will be heard. If the access code has been disabled (two beeps heard), you can now enter the Remote Access Operation Commands below. If an Access code has been programmed (one beep heard), enter the Access code digits. With the correct code entered, two beeps will be heard and you can now enter the Remote Access Operation Commands below. The relay must be set to "Door Strike" Mode to be controlled by these commands.

Feature	Touch Tone Command	Description
<b>Momentarily Activate Relay 1</b>	<b>** or __ __</b>	Momentarily activate relay 1 (1 or 2 digits, factory set to **).
<b>Latch Relay 1</b>	<b>11</b>	Latch* (continuously activate) relay 1.
<b>Un-Latch Relay 1</b>	<b>10</b>	Un-latch* (deactivate) relay 1.
<b>Toggle Relay 1</b>	<b>1#</b>	Toggle* relay 1 from last position.
<b>Momentarily Activate Relay 2</b>	<b>*2 or __ __</b>	Momentarily activate relay 2 (1 or 2 digits, factory set to *2).
<b>Latch Relay 2</b>	<b>21</b>	Latch* (continuously activate) relay 2.
<b>Un-Latch Relay 2</b>	<b>20</b>	Un-latch* (deactivate) relay 2.
<b>Toggle Relay 2</b>	<b>2#</b>	Toggle* relay 2 from last position.
<b>Disconnect</b>	<b>#</b>	Disconnects or forces the phone to hang up.

\* **Note:** Latching commands must be enabled in programming.

## D. Keyless Entry Codes and One Time Use Keyless Entry Codes

Keyless entry codes may be used by the tenants to provide keyless entry. The **K-1775-IP** can be programmed with a combination of up to 1000\* keyless entry codes or one time use keyless entry codes. The keyless entry codes can be programmed to be from 1 to 6 digits in length. Each keyless entry code can be programmed to activate relay 1 and/or 2 in four different relay modes: Momentary, Latch, Un-Latch and Toggle. To use a keyless entry code the tenant simply dials “#” followed by the entry code on the **K-1775-IP's** keypad. These can be entered before or after pressing the call button. After the one time use keyless entry code has been used, it is instantly cleared from the unit's memory. This is ideal for issuing keyless entry codes to service personnel, etc.

**Note:** A short buzz sound indicates when the relay has been activated and the visitor can now open the door.

## E. Proximity Cards

Proximity cards can also be used by the tenants to provide keyless entry. The **K-1775-IP** can be programmed with up to 1000\* proximity card numbers. Each proximity card number can be programmed to activate relay 1 and/or 2 in four different relay modes: Momentary, Latch, Un-Latch and Toggle. To use a proximity card the tenant simply presents a preprogrammed proximity card within 6 inches of the proximity card reader attached to the **K-1775-IP**. A short beep will be heard from the card reader indicating a card scan. If the card matches a valid preprogrammed card number a short buzz sound will be heard indicating the relay has been activated and the visitor can now open the door or gate.

\***Note:** 1000 is the total number of Keyless Entry Codes and/or Proximity Card numbers that can be programmed in the Entry Code Database.

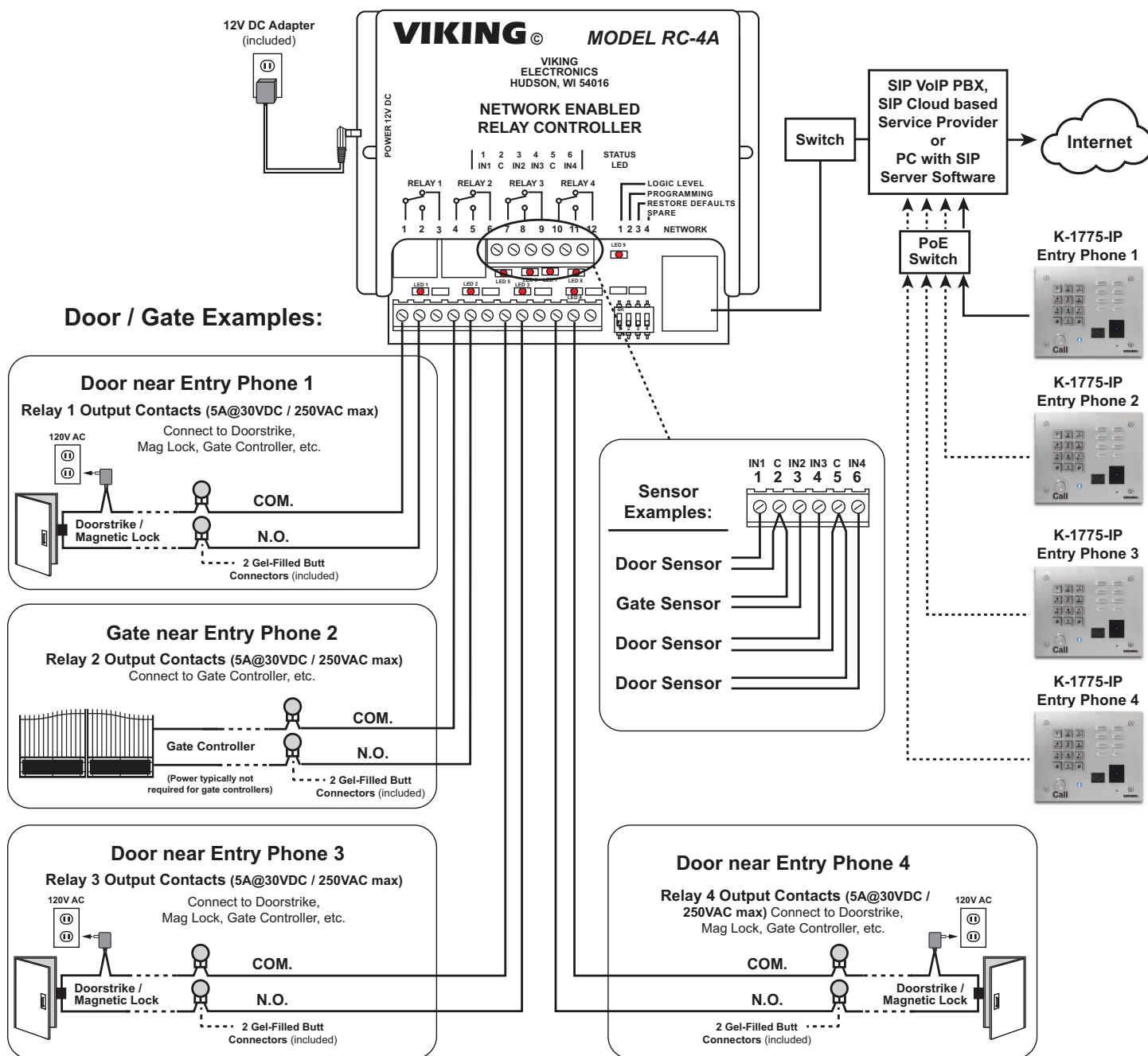
\*\* **Note:** Read range is dependent on the card reader type.

## Troubleshooting

If the unit cannot register with the programmed SIP server, the LED will blink on and off every second, and three error beeps will be heard every 30 seconds until communication is restored. This alerts a potential user of a problem with the device that will prevent an entry phone call from being made.

You may silence the error beeps, per instance, by pressing and holding the “\*” button on the keypad for 5 seconds or by clicking the “Mute Alarm Until Next Failure” button in the Viking IP Programming Software (see Programming Section 39). The error beeps automatically re-enable once the unit is registered, to alert of any new problems that arise.

## Optional Secure Remote Relay Control Using a Viking Model RC-4A



The front panel of the **K-1775-IP** is mounted using security Torx screws to help prevent intruders from removing the panel and accessing the on board door strike/gate control relays. For applications requiring additional security, a Viking model **RC-4A** remote relay controller can be used. The relay controller is mounted securely inside the building and connected to the same LAN as the **K-1775-IP**. The on board door strike relays would not be used in this case as the **K-1775-IP** will send an encrypted message to the **RC-4A** to activate its relays which control the door strikes/gates.

Up to 4 **K-1775-IP**'s can communicate with one **RC-4A** allowing you to securely control four entrances.

When using an **RC-4A** for remote relay control the **K-1775-IP**'s relays should be set to "External" in the PC programming.

**Note:** If the **K-1775-IP** loses communications with the **RC-4A**, the LED on the front panel of the **K-1775-IP** will flash 3 times every 2 seconds indicating the communication error. If this error occurs, make sure the **RC-4A** is powered, has a network connection and has the correct IP address and security code of the **K-1775-IP** displaying errors.

### Surface or Pedestal Mount Viking Products While Maintaining Weather and Vandal Resistance

The **VE-3x5**, **VE-5x5**, **VE-6x7** and **VE-5x10** add vandal and weather resistance, as well as versatility to many Viking products. The **VE-Series** backboxes are available in black fine texture powder painted steel or marine grade 316 stainless steel. The weather resistant boxes are designed to be surface mounted to a wall, post, single gang box, or a **VE-GNP** gooseneck pedestal.



The **VE-GNP** gooseneck pedestals are designed to be used with the **VE-5x5**, **VE-6x7** and **VE-5x10** backboxes and are ideal for drive up communications. **Note:** The **VE-3x5** is not compatible with the **VE-GNP** pedestals.

The **VE-PNL's** are **VE-Series** backboxes with a blank aluminum panel. The user can customize the clear-coated aluminum panel to mount an **PRX-1** card reader, **PRX-2** keypad or switch. The kits come complete with box, gasket, panel and screws. Model numbers that end with "SS" are stainless steel version. **Note:** The use of magnets to mount the **VE-Series** enclosure to a metal surface can affect the operation of the enclosed product.

### Add Panel Lighting to Your Viking VoIP Entry Phone

The **VE-LIGHT** kit adds bright LED illumination to any VoIP entry phone that is housed in a Viking **VE-5x5**, **VE-6x7** or **VE-5x10** enclosure.

The stainless steel bracket is easily mounted using existing holes and hardware. Two bright white LEDs are used as the light source, so there are no filaments to break or bulbs to burn out.

12 VDC power adapter included. Any power source between 12 and 24 volts, AC or DC can be used to supply the **VE-LIGHT** with power. The **K-1775-IP** provides 12 volts to power a **VE-LIGHT** (see Features Overview).



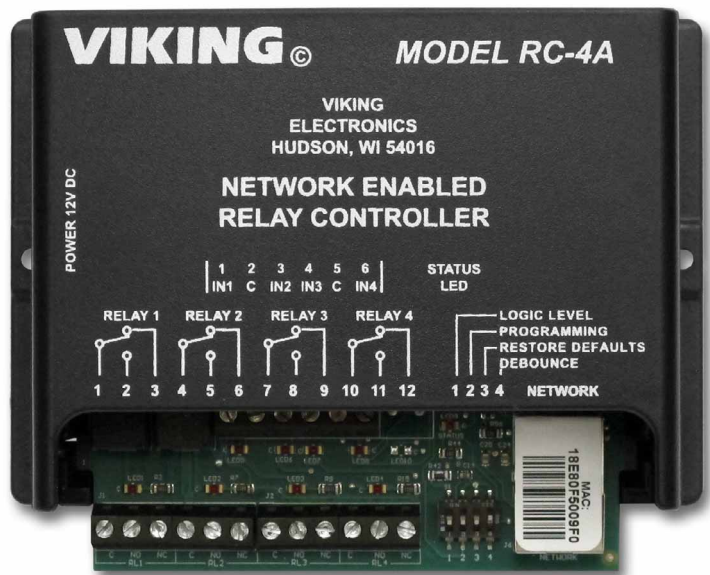
VE-LIGHT shown right with Viking E-30 and VE-5x5 (not included)

### *Control Relay Contacts Across a Local Area Network*

The **RC-4A** Network Enabled Relay Controller provides networked control of four relays via an easy-to-use web interface. The same interface can be used to check the status of four contact closure inputs. Relays can be toggled on or off, or user-programmed timed closures can be activated.

The **RC-4A** can be configured to work as a remote relay for Viking VoIP series entry phones, controlling door strikes and gates when a remote relay is required for security reasons. It can also be programmed to send an email or text message in response to a change in one or more of the sensor inputs. Two **RC-4A's** can be set up so that activity on a sensor input of one unit will automatically send a message across the network to activate one of the relays on the other unit.

Two levels of user access permit selected users to have full operational and programming rights while others have operational control but not programming capability



### *125KHz Proximity Cards and Key Ring Fobs for Use with Viking Model K-1770/75-IP*

The **PRX-C** and **PRX-C-ISO** are non-contact security cards that can be presented to the front of a **K-1770/75-IP** proximity card reader to allow entrance into a secured area. The **PRX-C** is a clam shell card made made from 0.070" thick plastic to resist bending and folding. A slot is provided at one end to allow a lanyard to be added for creating a "dog tag" style neck strap. The **PRX-C-ISO** is a thin 0.032" thick flexible "ISO" style proximity card. Much like a credit card, the **PRX-C-ISO** is perfect for storing in your wallet.

The **PRX-FOB** is a proximity key ring fob with brass eyelet designed to attach to a key chain or necklace. The **PRX-FOB's** compact size is only 1.5" x 1.2" x 0.15" making it one of the smallest available.

The cards and fobs are pre-programmed with a standard 26 bit Wiegand format consisting of a three digit facility code and a five-digit card number. The range of facility codes is from 2 to 254, and the card numbers range from 1 to 65,534. The actual card number can be printed on a label and placed on the back of each card for easy reference, or the card number can be offset by a fixed value for security purposes.

When ordering, the quantity, facility code, and starting card number along with the card number printing must be specified.



## Warranty

### IF YOU HAVE A PROBLEM WITH A VIKING PRODUCT, CONTACT VIKING TECHNICAL SUPPORT: 715-386-8666

Our Technical Support Department is available for assistance Monday through Friday 8:00am to 5:00pm central time. Before you call, please:

1. Know the model number, the serial number and what software version you have (see serial label).
2. Have the Product Manual 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. The original product boxes are not designed for shipping - an overpack box is required to prevent damage 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 RA 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 (RA) number will be issued. This number is valid for fourteen (14) calendar days from the date of issue.
3. After obtaining the RA number, return the approved equipment to your distributor. Please reference the RA number on the paperwork being shipped back with the unit(s), and also the outside of the shipping box. The original product boxes are not designed for shipping - an overpack box is required to prevent damage in transit. Once your distributor receives the package, they will replace the product over the counter at no charge. The distributor will then return the product to Viking using the same RA number.
4. **The distributor will NOT exchange this product without first obtaining the RA 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.**

### 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 (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. This warranty does not cover non-EWP 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.** 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.

If trouble is experienced with the **K-1775-IP Series** phone, for repair or warranty information, please contact:

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

### 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 tests in off-peak hours, such as early morning or late evenings.

### 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.

### CANADA

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

**Product Support: 715-386-8666**

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