



# 2012 Product Catalog

## Security & Communication Solutions



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Clocks/Accessories  
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Safety Yellow  
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**Prices are suggested trade net: Verify pricing with your distributor.**

Manufactured in the USA • American Product Support

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Compatible IP Gateway Equipment - Page 34 • ⓪ Indicates products available with enhanced weather protection (Page 9) DOD# 859



### How to Contact Us:

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Online: [www.VikingElectronics.com](http://www.VikingElectronics.com)

Email: [Help@VikingElectronics.com](mailto:Help@VikingElectronics.com)

**FREE Product Support** is available to Professional Installers who have purchased a **VIKING** product through an authorized Distributor.

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Fax Number: (715) 386-4344

All Viking products are available nationwide through distributors listed on the back cover.

### MSRP

To determine the **Manufacturers Suggested Retail Price** multiply the trade net price x 2.

### One Year Warranty

All **VIKING®** products are warranted to be free from defects in workmanship and material for a period of one year from the date of purchase. For complete information request **DOD# 101**.

Compatible IP Gateway Equipment - Page 34

**Blue Clues** - For a definition of a term in blue see Telecom Glossary pages 24 & 25.

Index of Applications... **DOD# 800**

Improved features in purple print.

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### NEW: "Document On Demand" Search

Viking wants to make it easy for you to get the product information you need, so we've added a new search to our website called "Document On Demand" (DOD). All Viking catalogs and literature have DOD #'s. Enter the DOD # on our homepage for a direct link to product cut sheets.

Look for **DOD** numbers throughout this catalog!



Need a product that's not in this catalog? Call or E-mail us!



ASK VIKING FIRST!  
**(715) 386-8861**  
If we don't make what you need we'll refer you to someone who does.

## ADA Compliant Emergency Phones

- Complies with ASME A17.1 Elevator Code
- Phone Numbers and I.D. Announcement Stored in Non-Volatile Memory
- Battery Back-Up Not Required
- Analog PABX, CO Line or FXS Port powered - 2 Wire Installation
- Automatically Dials 4 Additional 1 - 20 Digit Numbers on Busy or No Answer
- Compatible With Central Station Monitoring
- Temperature range (-15 to 130)

ADA Compliant with Braille Label and "Call Connected" LED

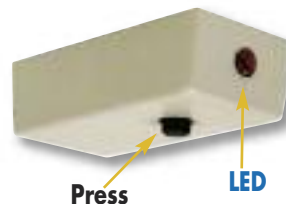


Viking Electronic's 1600A Series Emergency Phones are designed to provide quick and reliable access to emergency personnel via two-way, handsfree voice communication over the public switched telephone network. The 1600A Series have braille labels and meet ADA\* requirements for elevator telephones. Compatible with analog PABX, CO line or FXS port and ringdown circuits.

The 1600A Series can be programmed on site or remotely from a Touch Tone phone. All parameters, phone numbers, location numbers, and voice announcement are stored in non-volatile E<sup>2</sup> memory. Batteries are not required for memory retention.

When the "Push for Help" button is pressed, the 1600A Series phone goes off-hook, and the built-in Touch Tone or pulse dialer calls the pre-programmed 1 to 20 digit number. The "Call Connected" LED flashes during dialing. In the event that the line is busy or there is no answer, the unit can automatically dial up to 4 more numbers. 1600A phones light the "Call Connected" LED and send a field-programmed 1 to 20 digit Touch Tone number or 16 second voice announcement indicating the location of the emergency phone.

### Silent Panic Button Kit for E-1600A Series



Model	DOD #
PB-1	233

#### Applications include:

- Court Rooms
- Convenience Stores
- Gas Stations • Motels
- All Night Restaurants

Can be mounted under desk, counter, etc. and connected to a Viking E-1600A. When the button is pressed, the E-1600A calls up to five numbers and gives a pre-recorded message. The E-1600A speaker is disabled but the called party hears what is happening. The LED indicates activation.

## Handsfree Emergency Phones - Models E-1600-45A, E-1600A, and E-1600-60A

### ADA Compliant with Braille Label and "Call Connected" LED

- Material: .062" (16 gauge) steel, powder painted
- Mounting: Surface mount to walls, posts, single gang boxes or recess mount in elevator phone boxes
- Two-wire installation - analog PABX, CO line or FXS port powered
- Dimensions: 5.25" x 4.0" x 2.0"

When installing E Series emergency phones outdoors, always use the EWP version - See page 9



Model	DOD #
E-1600A	215
E-1600-45A	215
E-1600-60A	215

### 42" Handsfree Emergency Tower Phone

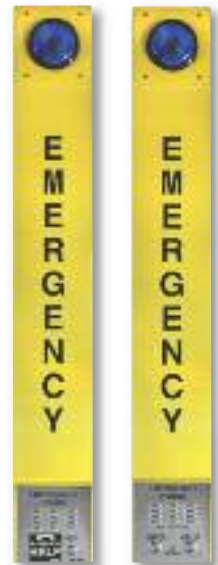
ADA Compliant with Braille Label, "Call Connected" LED and Blue Strobe Light

**General Emergency Phone Features and Operation:** (refer to 1600A series on page 4)

- 1,000,000 candle power strobe
- Max Strobe Power Run: 200 feet using 24 gauge wire
- Mounting: Surface mount to rigid wall or post
- Material: Enclosure - .125 aluminum, 76.2mm x 152.4mm (3" x 6") tube, powder painted high- visible yellow, Phone - .074 (14 gauge) stainless steel with stainless steel button, Strobe - Vandal resistant polycarbonate plastic
- Connections: Color-coded wires with gel-filled butt connectors
- **Enhanced Weather Protection (EWP)** standard and **power supply included**
- Two-button version available with "Info" and "Help" buttons
- Dimensions: 42" x 6" x 4.5"

**\*New high intensity LED strobe light with steady-on beacon feature available 2nd quarter.**

Model	Description	DOD #
<b>E-1600A-BLT-EWP</b>	42" Yellow Tower Phone	<b>217</b>
<b>E-1600A-BLT2EWP</b>	Two Button 42" Yellow Tower Phone	<b>217</b>



### Vandal Resistant Handsfree Emergency Phone

ADA Compliant with Braille Label and "Call Connected" LED

**General Emergency Phone Features and Operation:** (refer to 1600A series on page 4)

- Material: .074" (14 gauge) brushed stainless steel
- Mounting: Surface mount to walls, posts, single gang boxes or recess mount in elevator phone boxes
- Two-wire installation - analog **PABX, CO** line or **FXS** port powered
- Dimensions: 7.22" x 5.86" x 1.55"

**⚠ When installing E Series emergency phones outdoors, always use the EWP version - See page 9**

Model	Description	DOD #
<b>E-1600-03B</b>	Stainless Steel Emergency Phone	<b>215</b>



### Vandal Resistant Handsfree Emergency Phone

ADA Compliant with Braille Label and "Call Connected" LED

**General Emergency Phone Features and Operation:** (refer to 1600A series on page 4)

- Material: .125" (11 gauge) brushed stainless steel
- Two-wire installation - analog **PABX, CO** line or **FXS** port powered
- Dimensions: 13.0" x 10.5" x 2"
- Mounting: Flush mount in elevator cabs, ATMs, stairwells, hallways, etc.

Model	Description	DOD #
<b>E-1600-02A</b>	Stainless Steel Emergency Phone	<b>215</b>

**⚠ When installing E Series emergency phones outdoors, always use the EWP version - See page 9**



### Handsfree Emergency Phone for Elevator Phone Box

ADA Compliant with Braille Label and "Call Connected" LED

**General Emergency Phone Features and Operation:** (refer to 1600A series on page 4)

- Material: 0.062" (16 gauge) red powder painted steel
- Two-wire installation - analog **PABX, CO** line or **FXS** port powered
- Dimensions: 9.875" x 6.86" x 2.1"
- Mounting: Recess mounting in standard elevator phone box (10" x 7" x 3")

Model	Description	DOD #
<b>K-1600-EHFA</b>	Handsfree Elevator Phone	<b>215</b>



## Specialty Emergency Phones

### 1600 Series Two Button 5" x 5" ADA Stainless Steel Emergency Phones

#### Emergency Phone Features and Operation: (See page 4)

- Material: 14 gauge brushed stainless steel
- Mounting: Flush mount with included plastic rough-in, surface mount with optional **VE-5x5** enclosure (Page 33)
- Two wire installation – analog **PABX, CO** line or **FXS** port powered
- Dimensions: 5.0" x 5.0" x 2.25"
- **Two button version dials up to 3 additional numbers for general info or directions**

**⚠ When installing E Series emergency phones outdoors, always use the EWP version – See page 9**

Model	Description	DOD #
<b>E-1600-20A</b>	Two Button Emergency Phone	<b>215</b>



### Replacement Phone for Talk-A-Phone Applications

#### ADA Compliant with Braille label, "Call Connected" LED

- Direct replacement for the Talk-A-Phone ETP-400(V) panel phone, Code Blue towers require redrilling and tapping
- Material: 11 gauge brushed stainless steel
- Mounting: Flush mount to Talk-A-Phone ETP towers, wall mounts, boxes and Pedestals
- Analog **PABX, CO** line or **FXS** port powered emergency phone (**LDB-3** requires power) and **Enhanced Weather Protection (EWP)** standard
- Dimensions: 9.5" x 11.75" x 2.0"
- Two button version dials up to 3 additional numbers for general info or directions

Model	Description	DOD #
<b>E-1600A-TP-EWP</b>	Talk-A-Phone Replacement	<b>218</b>
<b>E-1600A-TP2-EWP</b>	Two Button Replacement	<b>218</b>



### Universal Emergency Phone Kit

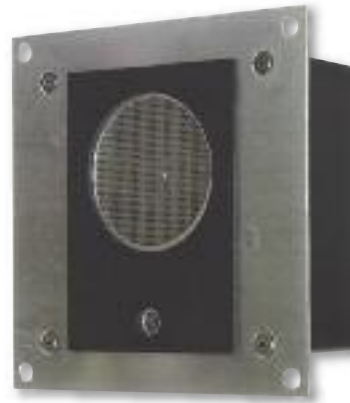
#### ADA Compliant, Ideal for Custom Elevator Panels

#### General Emergency Phone Features and Operation: (See page 4)

- Material: 0.062" (16 gauge) zinc plated steel
- Analog **PABX, CO** line or **FXS** port powered
- Dimensions: 5.0" x 5.0" x 2.25"
- Mounting: Install behind elevator panels for installations requiring a custom panel

Model	Description	DOD #
<b>E-1600-55A</b>	Panel kit	<b>215</b>

**⚠ When installing E Series door entry or emergency phones outdoors, always use the EWP version – See page 9**



### Non-Chassis Emergency Phones

#### ADA Compliant, Comes with Braille Label and LED

#### General Emergency Phone Features and Operation: (See page 4)

- **E-1600A** parts kit without a chassis
- Model **E-1600-52A** has 2 push buttons, one "Info" and one "Help"
- Ideal for applications that don't require traditional housing
- **Kit includes: printed circuit board, speaker, microphone, switch(s), RJ-11 jack and cable harness assembly**
- Analog **PABX, CO** line or **FXS** port powered
- Connections: 2-position terminal block or gel-filled butt connectors

**⚠ When installing E Series door entry or emergency phones outdoors, always use the EWP version – See page 9**

Model	Description	DOD #
<b>E-1600-50A</b>	Non-Chassis Emergency Phone	<b>215</b>
<b>E-1600-52A</b>	Non-Chassis Two-Button Phone	<b>215</b>



**E-1600-50A-EWP**  
version shown



### Viking Emergency Poolside Phones Can Help Save Lives!



**E-1600-30A**  
Brushed Stainless Steel **ADA** Compliant phone (see page 4)

**For other Emergency Phones see pages 4-8**

**NEW**

**State by State Regulations**  
**DOD # 870**

**E-1600-30A-EWP**  
shown in optional surface mount box. (Page 33)

### Pool Phone Laws

The map shows the states in red that are required by code to have pool emergency phones. If your state is not shown in red, it does not mean you are exempt. Please check your local codes for guidance.



**⚠ When installing E Series emergency phones outdoors, always use the EWP version - See page 9**

Model	Description	DOD #
<b>E-1600-30A</b>	<b>ADA</b> Compliant Emergency Phone	<b>215</b>

### Handsfree Speaker Phone with Dialer

- Analog **PABX**, **CO** line or **FXS** port powered entry or emergency phone
- Stainless steel faceplate with metal call button

When the call button is pressed, the **E-30** automatically dials a pre-programmed 1-20 digit number. The phone will dial up to 4 additional numbers if a busy signal or no-answer is detected. The phone numbers are programmed from any touch tone phone and stored in non-volatile memory. The **E-30** can be set to auto-answer and disconnects on silence, busy, dial tone, **CPC** or time out. The unit is designed for non-**ADA** emergency, door and gate entry applications. Temperature range is -15° F to 130° F. Size is 5" x 5" x 2.25".

**⚠ When installing E Series door entry or emergency phones outdoors, always use the EWP version - See page 9**



**Model E-30**  
shown in optional **VE-5x5** surface mount box (Page 33)

Model	Description	DOD #
<b>E-30</b>	Emergency Handsfree Phone	<b>212</b>



**Model E-30-PT**  
shown in optional **VE-5x5** surface mount box (Page 33)

### "Push to Talk" Speaker Phone

The **E-30-PT** has the same audio, temperature and dialer specifications as the **E-30** (above). The unit is designed to be used in place of the **E-10A**, **E-20B** or **E-30** handsfree phones in noisy applications. In applications where the background noise can be louder than the person calling, a handset type phone is recommended.

### Video Speaker Phone with Dialer

The **E-35** has the same audio, temperature and dialer specifications as the **E-30** (above). The **E-35** also includes a high resolution color CCTV camera - refer to page 35 for camera specifications. The camera operates up to 150 feet on **CAT-5E** cable. **Power supply included.**



**Model E-35**  
shown in optional **VE-5x5** surface mount box (Page 33)

Model	Description	DOD #
<b>E-30-PT</b>	Push to Talk Entry Phone	<b>214</b>
<b>E-35</b>	Video Entry Phone with Dialer	<b>178</b>

**⚠ When installing E Series door entry or emergency phones outdoors, always use the EWP version - See page 9**

## 6 Elevator Phones Share One Line

- Meets the new ASME A17.1 Requirements



The **LC-6** eliminates the monthly charges for a dedicated line to each elevator. Up to six emergency phones can communicate with authorized personnel on 3 other phones within a building, or add a telephone line to allow communication outside

the building. A call initiated by an emergency phone can dial internally, externally, or both. Any other phones that are activated will be conferenced into the conversation, thus filling ASME A17.1 requirements. Fire officials can call each cab, place an "all call" to all cabs, or break into in-progress "911" calls.

Per ASME A17.1 requirements, the **LC-6** can verify the operability of the telephone line on a daily basis and with the optional Viking model **LV-1K** line verification alarm panel, can display an "Elevator Communications Failure".

**Power supply included.** Purchase 550 VA battery backup separately.

Model	DOD #
<b>LC-6</b>	<b>245</b>

## Line Verification Panel with Key Switch

- Meets the new ASME A17.1 Requirements

Use with any existing single line Viking **E-1600A** series emergency phone to provide an audible and visual indication that the telephone line is not functional. Easily mounts in a standard double gang electrical box. With the **LV-1K** installed, the **E-1600A**



series phone will check the telephone line on a daily basis. In accordance to ASME A17.1, the **LV-1K** has labeled "ELEVATOR COMMUNICATION FAILURE" in 1/4" high letters, and will sound an audible signal every 30 seconds and flash a red light when a telephone line fault is detected. Authorized personnel can silence the audible signal with the included key switch. The **LED** light will remain flashing until the fault is corrected. Use in conjunction with the Viking model **LC-6** to show line verification for up to six **E-1600A** series emergency phones.

Model	DOD #
<b>LV-1K</b>	<b>246</b>

## A Smart Line Sharing Device with Inbound Switching Capability

- Routes both incoming and outgoing calls
- Allows an Emergency device to share a phone line with other devices (fax machines, phones, modems)
- Gives priority to the Emergency devices
- Incoming calls routed to one of two ports by Caller ID, **Distinctive Ring** or Call Back
- Status **LED** displays mode of operation
- Can store up to 12 Caller ID numbers

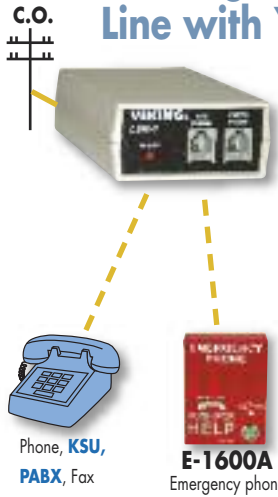


Model	DOD #
<b>LSD-2</b>	<b>262</b>

- Provides a busy signal to the phone port when an Emergency device is in use

**Power supply included.**

## Your Emergency Device can Share a Line with Your Phone System



**Share Lines - Save Hundreds of Dollars Per Year**

**Viking's Emergency Line Seizure Relay** allows the Elevator/Emergency phone or alarm dialer to share an existing **C.O.** line. When the emergency phone or alarm dialer initiates a call, the line is taken away from its normal use and receives new dial tone for the emergency call. Any call in process is disconnected. The **LSR-1** always connects to emergency device during power failure. **Power supply included.**

Model	DOD #
<b>LSR-1</b>	<b>230</b>

## Analog Line Sharing For IP PBX's, VoIP Phone Systems

The **LS-911** offers a cost-effective, reliable method of handling 911 emergency calls for IP PBX's and networked phone systems. Connected to an **FXO** port, it lets you enjoy the advantages of conventional analog 911 service, including traceability and 911 callback, without having to dedicate an analog line exclusively for this purpose.



911 calls routed to the **LS-911** receive priority, taking the analog line from the fax, card reader etc. if it is in use. A special recall feature maintains the availability of the line in the event the emergency call is disconnected, so 911 personnel can call back to reestablish the connection. **Power supply included.**

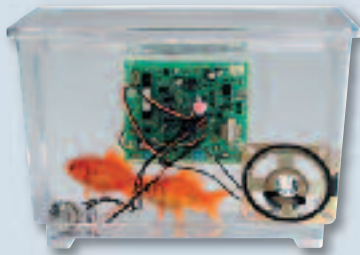
Model	DOD #
<b>LS-911</b>	<b>238</b>





### EWP Products Last Longer and Save Money!

Outdoor environments cause ordinary circuit boards to fail early. But Viking's **Enhanced Weather Protection (EWP)** products are weather-sealed with a thick protective coating that keeps the elements out. **EWP** is so effective that our early production models are still out in the field, working as well as the day they were installed - without a single service call. That was over 9 years ago! So, if you want to save money on your outdoor installations, invest a bit more upfront in **EWP**. Just order Viking products with an **EWP** suffix. Then install it and forget it.



**EWP board working under water**

### Features

- **PCB** completely sealed in an injection molded thermoplastic potting compound
- Sealed **LED**, push button switch and microphone connections
- Internally sealed push button switches, trim pots and dip switches
- Mylar speaker with foam gasket
- Closed cell foam gasketing to prevent water penetration
- Weatherproof connectors filled with anti-corrosive gel
- **EWP** products are designed to meet an Ingress Protection rating of IP66.



**Tough and durable thermoplastic potting**

### Does my installation require Enhanced Weather Protection?

If you answer "yes" to one or more of the following statements, we recommend a Viking Emergency or Entry phone with **EWP (Enhanced Weather Protection)**.

1. The product is located outside where it is exposed to precipitation or condensation.
2. The product is mounted near an indoor swimming pool or spa.
3. The products wire runs use conduit which could funnel warm inside air to the product mounted outside, causing condensation on the circuit board.
4. The product is mounted in a location with a known corrosive atmosphere.
5. The product is mounted in a parking garage with vehicle exhaust.
6. The temperature of the product can get below the dew point.



**E-1600-30A-EWP**  
page 7



**K-1200-EWP**  
Shown in optional  
**VE-5x10-SS** surface  
mount box **page 37**



**E-1600A-EWP**  
page 4



**K-1700-3-EWP**  
Shown in optional  
**VE-6x7** surface mount  
box **page 37**

Model	Description	DOD #	Page
<b>BLK-3-EWP</b>	Blue Strobe Light Kit	<b>653</b>	28
<b>BLK-4-EWP</b>	Blue Strobe Light Kit	<b>654</b>	28
<b>E-1600-02A-EWP</b>	Stainless Steel Emergency Phone	<b>215</b>	5
<b>E-1600A-EWP</b>	Red Emergency Phone	<b>215</b>	4
<b>E-1600-20A-EWP</b>	Two-Button Emergency Phone	<b>215</b>	6
<b>E-1600-45A-EWP</b>	Yellow Emergency Phone	<b>215</b>	4
<b>E-1600-03B-EWP</b>	Stainless Steel Emergency Phone	<b>215</b>	5
<b>E-1600-30A-EWP</b>	Stainless Steel Emergency Phone	<b>215</b>	7
<b>E-1600-50A-EWP</b>	No-Chassis Emergency Phone	<b>215</b>	6
<b>E-1600-52A-EWP</b>	No-Chassis Emergency Phone	<b>215</b>	6
<b>E-1600-55A-EWP</b>	Custom Emergency Phone Kit	<b>215</b>	6
<b>E-1600-60A-EWP</b>	Blue Emergency Phone	<b>215</b>	4
<b>E-1600A-BLT-EWP</b>	Strobe Light Tower Phone	<b>217</b>	5
<b>E-1600A-BLT2EWP</b>	Two Button Tower Phone	<b>217</b>	5
<b>E-1600A-TP-EWP</b>	Talk-A-Phone Replacement	<b>218</b>	6
<b>E-1600A-TP2-EWP</b>	Talk-A-Phone Replacement	<b>218</b>	6
<b>E-10A-EWP</b>	Speaker Phone	<b>210</b>	14/42
<b>E-20B-EWP</b>	Speaker Phone	<b>210</b>	14/42
<b>E-30-EWP</b>	Speaker Phone	<b>212</b>	7
<b>E-30-PT-EWP</b>	Speaker Phone	<b>214</b>	7
<b>E-35-EWP</b>	Video Speaker Phone	<b>178</b>	7/35
<b>E-40-SS-EWP</b>	Single Gang Entry Phone	<b>187</b>	42
<b>E-40-BN/WH/PB/BK-EWP</b>	Compact Entry Phone	<b>187</b>	42
<b>E-50-SS-EWP</b>	Compact Video Entry Phone	<b>191</b>	35/42
<b>E-50-BN/WH/PB/BK-EWP</b>	Compact Video Entry Phone	<b>191</b>	35/42
<b>E-60-SS-EWP</b>	Double Gang Entry Phone	<b>206</b>	43
<b>E-60-BN/WH/PB/BK-EWP</b>	Double Gang Entry Phone	<b>206</b>	43
<b>E-65-SS-EWP</b>	Double Gang Video Entry Phone	<b>203</b>	43
<b>E-65-BN/WH/PB/BK-EWP</b>	Double Gang Video Entry Phone	<b>203</b>	43
<b>E-70-SS-EWP</b>	Entry Phone with Prox Card Reader	<b>207</b>	43
<b>E-70-BN/WH/PB/BK-EWP</b>	Entry Phone with Prox Card Reader	<b>207</b>	43
<b>E-75-SS-EWP</b>	Video Phone with Prox Card Reader	<b>208</b>	43
<b>E-75-BN/WH/PB/BK-EWP</b>	Video Phone with Prox Card Reader	<b>208</b>	43
<b>HID-2</b>	Wiegand Keypad	<b>199</b>	38
<b>K-1200-EWP</b>	12 Button Entry Phone	<b>182</b>	37
<b>K-1205-EWP</b>	12 Button Video Entry Phone	<b>183</b>	35/37
<b>K-1700-3-EWP</b>	Keypad Door Phone	<b>157</b>	37
<b>K-1700-3-BN-EWP</b>	Bronze Keypad Door Phone	<b>157</b>	37
<b>K-1705-3-EWP</b>	Video Keypad Door Phone	<b>159</b>	35/37
<b>K-1705-3-BN-EWP</b>	Bronze Video Keypad Door Phone	<b>159</b>	35/37
<b>K-1900-7-EWP</b>	Stainless Steel Panel Phone	<b>364</b>	11
<b>K-1900-8-EWP</b>	Panel Phone with Keypad	<b>362</b>	11
<b>PROX-1</b>	Proximity Card Reader	<b>221</b>	38
<b>PROX-2</b>	Proximity Card Reader/Keypad	<b>219</b>	38
<b>PROX-3-MK-GNP</b>	Mounting Kit for VE-GNP Pedestals	<b>229</b>	38
<b>PROX-3-MK-VEGNP</b>	Mounting Kit for VE-GNP Pedestals	<b>229</b>	38
<b>VCAM-1</b>	Compact Color Video Camera Kit	<b>190</b>	35
<b>VCAM-1IR</b>	Video Camera Kit IR Compatible	<b>190</b>	35
<b>VCAM-2-SS</b>	Video Camera Mounts in Single Gang Box	<b>190</b>	35
<b>VCAM-2-BN</b>	Video Camera Mounts in Single Gang Box	<b>190</b>	35
<b>W-1000-EWP</b>	Doorbox	<b>170</b>	36
<b>W-2000A-EWP</b>	Doorbox	<b>170</b>	36
<b>W-3000-EWP</b>	Doorbox	<b>180</b>	36
<b>W-3005-EWP</b>	Video Doorbox	<b>181</b>	35/36

## Hot Line , Courtesy and Special Color Phones

### Hot-Line Single Number Dialer Phones

- **Auto Dialing Emergency/Courtesy Phones**
- **Dials a Pre-Programmed Number Whenever the Handset is Lifted**
- 1-32 digit programmable speed dial number
- Telephone line powered and touch tone programmable
- Hearing aid compatible amplified handsets with rotary handset volume control
- Touch tone and 10/20 pps pulse dialing
- Non-volatile memory (no batteries required)
- Restricts fraudulent calls from hand held dialers
- Available in red or ash color
- Operates on a **C.O.** line or analog **PABX/KSU** extensions

**Applications:** Courtesy and Emergency Phones      Cash Machines  
 Customer Service      Taxi Service  
 Airline/Hotel/Rental Car Reservations      Security  
 Help Lines  
 POS Displays



**K-1900W-2**

**K-1900D-2**

Replace leased ringdown circuits using standard loop start **C.O. lines**. The Hot-Line phone automatically dials the programmed number whenever the handset is picked up. Four-second pauses can be programmed for use on **Centrex** or behind **PABX**.

#### Free Programming (100 Unit Minimum)

Viking will pre-program hot line phones or dialers with any number up to 32 digits or pauses, at no charge (minimum quantity 100). To take advantage of this free service, contact us at 715-386-8861. The following models are covered by this program:

- |                      |                        |
|----------------------|------------------------|
| <b>K-1900-5</b>      | <b>K-1900W-2 (Red)</b> |
| <b>K-1900W-2 ASH</b> | <b>K-1900D-2 (Red)</b> |
| <b>K-1900D-2 ASH</b> | <b>K-1900-7</b>        |

Model	Description	DOD #
<b>K-1900D-2</b>	Red Hot-Line Desk Phone	<b>360</b>
<b>K-1900W-2</b>	Red Hot-Line Wall Phone	<b>360</b>
<b>K-1900D-2 ASH</b>	Ash Hot-Line Desk Phone	<b>360</b>
<b>K-1900W-2 ASH</b>	Ash Hot-Line Wall Phone	<b>360</b>

### Need Hot-Line Phones with Special Colors?

You can add an electronic ringer to the **K-1900W-2** or **K-1900D-2**. Order **Viking Model Q170600 Ringer... DOD# 834**



**ANY Pantone color available!**

MINIMUM QUANTITY NOW REDUCED TO ONLY 500 UNITS!

**CALL SALES AT (715) 386-8861 FOR DETAILS.**

## Vandal Resistant Hot-Line Panel Phone

- Touch tone or pulse auto-dialing (up to 32 digits) programmable speed dial number
- Vandal resistant 0.125" (1/8") thick 316 marine grade stainless panel, armored cable and metal cradle
- Temperature Range (-30° to 140°F)
- Armored cable: STD-36"; **EWP-54"**

- Hearing aid compatible amplified handset with sealed push button volume control
- Optional surface mount box available, model VE-5x10 (see page 33)
- Dimensions: 5"W x 10"H x 4"D

 **When installing K-Series phones outdoors, always use the EWP version - See page 9**

Model	Description	DOD #
<b>K-1900-7</b>	Hot-Line Panel Phone	<b>364</b>



## Vandal Resistant Hot-Line Panel Phone with Built-In Keypad



- Auto-dials (up to 32 digits) programmable speed dial number
- Touch tone or pulse dialing with a programmable pre-dial pause
- Sealed metal touch tone keypad
- Multi-number dialer mode adds 5 speed dial numbers
- Temperature Range (-30° to 140°F)

 **When installing K-Series phones outdoors, always use the EWP version - See page 9**

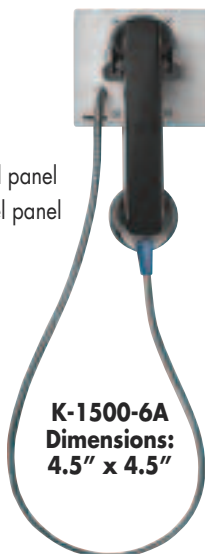
- Vandal resistant 0.125" (1/8") thick 316 marine grade stainless steel panel, armored cable and metal cradle
- Armored cable: STD-36"; **EWP-54"**
- Hearing aid compatible amplified handset with sealed push button volume control
- Optional **VE-5x10** (page 33) surface mount box available
- Dimensions: 5"W x 10"H x 4"D

Model	Description	DOD #
<b>K-1900-8</b>	Hot-Line Panel Phone with Keypad	<b>362</b>

## Vandal Resistant Stainless Steel Manual Panel Phones

- **K-1500-6A**: 0.075" thick 316 marine grade stainless steel panel
- **K-1500-7**: 0.125" (1/8") thick marine grade stainless steel panel
- Armored cable and heavy-duty hookswitch
- Compatible with Viking ringdown circuits
- Mounts on a standard double-gang electrical box
- 316 Marine Grade Stainless Steel Panel
- Optional **VE-5x10** (page 33) surface mount box available for model **K-1500-7**

Model	DOD #
<b>K-1500-6A</b>	<b>352</b>
<b>K-1500-7</b>	<b>352</b>



## Network Insert Dialer

This electronic network, used in Viking's Hot-Line Phones, can be used to convert any standard phone into a single number hot-line phone.



Model	DOD #
<b>K-1900-6</b>	<b>360</b>



**K-1500P-W**

**K-1500P-D**

## Manual (No Dial) Phones with Ringers

### Ringdown, Courtesy or Emergency Phone Applications

These manual phones are compatible with ringdown circuits such as model **DLE-200B** (page 32), dialers such as Viking's **K-1900-5** and **K-1900-30** (page 12) as well as an analog **PABX, CO line** or **FXS** port configured as a ringdown circuit.

Model	Description	DOD #
<b>K-1500P-W</b>	Red Manual Wall Phone	<b>355</b>
<b>K-1500P-D</b>	Red Manual Desk Phone	<b>355</b>
<b>K-1500P-W-ASH</b>	Ash Manual Wall Phone	<b>355</b>
<b>K-1500P-D-ASH</b>	Ash Manual Desk Phone	<b>355</b>

## Touch Tone and Pulse Hot-Line Dialers

- Applications:** • Help Lines • POS Displays • Information Kiosks  
• Hotel/Car Reservations • Courtesy Phones • Money Transfer  
• **Non-Volatile Memory**  
• **No Batteries to Replace**  
• **Convert any Phone to a Hot-Line Dialer**

These analog **PABX, CO** line or **FXS** port powered dialers automatically dial the programmed number each time the connected phone goes off-hook. They can help eliminate mileage charges on leased lines, toll fraud on courtesy or emergency phones and hand-held dialers. They are compatible with analog **PABX, CO** line or **FXS** port and will not dial on incoming calls. **Program from any Touch Tone phone.**

Model **K-1900-4** provides 10 or 20 pps **pulse** dialing and with external switches, can dial up to 31 different 1 to 16 digit phone numbers. "Pulse only" phone lines usually cost less per month and cannot be hacked by hand-held dialers. **K-1900-4** can store 4-second pauses.

Model **K-1900-5** provides **1 to 32 digit Touch Tone** dialing and 1 and 4 second pauses as needed to use behind a **PABX, access a pager from an alarm contact**, etc. The **K-1900-5** blocks hand-held dialers and "hook-switch" or pulse dialing. The dialer can provide fast (50 mS) or normal (120 mS) on/off Touch Tones.



**K-1900-4**



**K-1900-5**

Model	Description	DOD #
<b>K-1900-4</b>	Pulse Dialer	<b>315</b>
<b>K-1900-5</b>	Touch Tone Dialer	<b>317</b>

- The **K-1900-5** can be activated by a momentary contact closure see **DOD# 818**.
- Program a Multitude of Dialers or Hot Line Phones see **DOD# 901**.



Model	DOD #
<b>K-1900-9</b>	<b>321</b>

## 100 Number Speed Dialer

- **Non-volatile memory**
- **Use on analog PABX, CO line or FXS port**
- **Use with any touch tone phone**

When used as a multi-number dialer the **K-1900-9** will allow the user to enter a 1 or 2 digit code that will speed dial a pre-programmed number. When the dialer calls the number, the user can be blocked from entering additional touch-tones. Alternatively, the **K-1900-9** can be programmed to allow touch-tones for use with interactive voice response systems.

The **K-1900-9** can also be programmed as a single number hotline. Because the dialer is A.C. powered, it can be used on low current phone lines.

The **K-1900-9** has a programmable call timer and can be programmed on-site or from a remote location using a touch-tone phone. **Power supply included.**

## Smart Touch Tone Dialer with Redialing

The **K-1900-30** is an automatic dialer that dials a 1-20 digit phone number, and can be programmed to call up to 4 additional phone numbers if the line is busy, or is not answered. The **K-1900-30** can be used to add the smart dialing features of a Viking Model **E-30** to other non-dialing **E-Series** or **K-Series** phones, or any analog phone.

The **K-1900-30** connects to an analog **PABX, CO** line or **FXS** port. Programming can be done locally, or remotely by calling the unit. **Power supply included.**

Model	DOD#
<b>K-1900-30</b>	<b>300</b>



## Automated Voice Message Delivery System

**Model K-6000-DVA** can automatically notify up to **1000** people of an event cancellation, school, church or business closing or delayed opening *with one call*. You can also **record and forward** a caller's message to a group of phone numbers.

**Six Contacts**

The **K-6000-DVA** is designed to connect to a standard analog **PABX, CO** line or **FXS** port. To activate the unit, an authorized administrator calls the **K-6000-DVA**, dials a 6 digit password, selects a pre-recorded message or records a live message up to 1 minute, then activates the unit via a touch tone command to automatically call all the phone numbers in a pre-programmed group. Up to 6 groups of phone numbers can be preprogrammed into the unit. On site each group can be initiated by a contact closure.

Alternatively the unit can be activated on site by 1 of 6 contacts.

**Power supply, USB Adapter and Application CD ROM included.**



**Model K-6000-DVA**

Model	DOD #
K-6000-DVA	307

User friendly  
 PC programmable



RS-232 to USB  
 Adapter Included.



For faster calling  
 multiple units and  
 phone lines can be used  
 to form a "phone tree."

## Eight-Input Alarm Dialer with Digital Announcer

- "Store Caster" mode available
- **Non-Volatile memory (no batteries required)**
- **Eight normally open or closed contact inputs**

The **K-2000-DVA** is a programmable, eight input, multi-number auto dialer and digital announcer, designed for emergency and non-emergency message notification. It can store up to eight 32-digit numbers per input, for a total of up to 64 different numbers. The unit is capable of local or remote recording of up to eight different messages (one message per input), with a total recording time of eight minutes. In the "Store Caster" mode, eight different messages ("customer assistance needed in hardware please" etc.) can be provided.

**Eight Contacts**

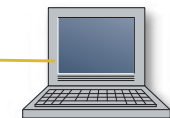
**Power supply included.**



**Model K-2000-DVA**

Model	DOD #
K-2000-DVA	303

User friendly  
 PC programmable



RS-232 to USB  
 Adapter available.



## Two-Input Alarm Dialer with Digital Announcer

- **Non-Volatile memory (no batteries required)**
- **Two normally open or closed contact inputs**

The **K-202-DVA** Voice Alarm Dialer is a smaller version of the popular **K-2000-DVA** above.

The **K-202-DVA** is a fully programmable two input, multi-number auto dialer and digital announcer, designed for emergency and non-emergency message notification. **Power supply included.**

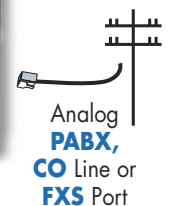
- 2 messages (1 minute record time per input)
- Stores up to seven 32-digit phone numbers per input
- In the event that the dialer receives a busy or no answer it will automatically dial up to six more numbers until it gets through
- Local or remote programming and recording



**Model K-202-DVA**

Model	DOD #
K-202-DVA	305

**Two Contacts**



## Enclosures for Installing Viking Products Outdoors

**VE-9x12 and VE-9x20 provide weather protection for Viking products!**

- Parking Lots
- Playgrounds
- College Campuses
- Maintenance Areas
- Swimming Pools
- Roadside Help Areas
- Hospitals
- Building Exteriors

These enclosures are constructed of cast aluminum. They are made for years of outdoor service. The heavy-duty aluminum doors are labeled 'Telephone' and have a gasket seal. The **VE-9x12 -1** and **-2** allow you to choose between two panels that permit mounting many different Viking products. The **VE-9x20** provides mounting for panel phones with handsets.



Model	DOD #
<b>VE-9x12-0</b>	<b>413</b>
<b>VE-9x12-1,2</b>	<b>413</b>
<b>VE-9x20-0</b>	<b>413</b>
<b>VE-9x20</b>	<b>413</b>
<b>VE-PBL</b>	<b>413</b>
<b>VE-SPG</b>	<b>413</b>

**VE-PBL** – Push Button Lock for **VE-9x12** and **VE-9x20**

**VE-SPG** – hinge door return spring for **VE-9x12**. (Not assembled)

VE-9x12 (R, Y or B)-0	VE-9x12 (R, Y or B)-1	VE-9x12 (R, Y or B)-2	VE-9x20 (R, Y or B)-0	VE-9x20 (R, Y or B)
Basic Enclosure - No internal mounting panel	E-1600A/E-1600-45A E-1600-03B, E-1600-60A K-1900W-2/K-1500P-W W-2000A/E-20B	E-10A, E-1600-30A E-30/E-35/E-1600-20A W-1000 W-3000/W-3005	Basic Enclosure - No internal mounting panel	K-1500-7 K-1900-7 K-1900-8



For more enclosures see page 33



**Model K-1500-E**

Fits standard 10" x 7" x 3" elevator phone box



**Model K-1500-EHFA**



**Model E-10A**

5" x 5" flush mount



**Model E-20B**

4" x 5.25" surface mount

Also see New Models **E-40, E-50, E-60, E-65, E-70 and E-75** (Page 42, 43)

## Standard Elevator/Emergency Phones

**Applications: Elevator, Parking Ramp, Campus, Door Entry**  
(For ADA compliant elevator phones see page 4)

- Intelligent auto disconnect on **CPC**, busy, dial tone, silence.
- **E-10A, E-20B, K-1500-EHFA** now detects ringing as low as **30V AC**

These vandal-resistant analog **PABX, CO** line or **FXS** port powered Emergency Phones have no dial pads to help eliminate long distance fraud or abuse. There are 3 ways of using the unit: (1) Use on analog **PABX, CO** line or **FXS** port with **Viking's K-1900-4, or K-1900-5** Single Number Dialers (Page 12); (2) Use on analog **PABX, CO** line or **FXS** port programmed to automatically ring to security; (3) Use with **Viking's DLE-200B Ringdown Circuit**. (Page 32).

Handsfree models **E-10A, E-20B** and **K-1500-EHF** go off hook on the phone line when the button is pressed then auto disconnects on **CPC**, busy, dial tone or silence. The **E-10A, E-20B, and K-1500-EHFA** will auto answer on an incoming call. The **K-1500-E** will not answer.

- **K-1500-E** now with amplified handset per FCC regulations

**When installing E Series door entry phones outdoors, always use the EWP version – See page 9**

Model	Description	DOD #
<b>E-10A</b>	Standard	<b>210</b>
<b>E-20B</b>	Emergency	<b>210</b>
<b>K-1500-EHFA</b>	Phones	<b>220</b>
<b>K-1500-E</b>		<b>220</b>



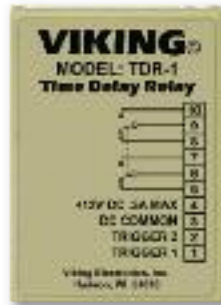


### Panasonic Doorphone Station Adapter

The **PAN-1** allows a Viking "E" series speaker phone (**E-10A, E-20B, E-30, E-35, E-40, E-50, E-60, E-65, E-70, E-75**, etc.) to be connected in place of a Panasonic KX-T30865 or KX-T7775.

**Power supply included.**

Model	DOD #
<b>PAN-1</b>	<b>145</b>



### Time Delay Relay

The **TDR-1** can be programmed to produce one of 8 closure times from .5 to 20 seconds. Can also be set up as a delay on operate relay. Accepts positive or negative-going logic level voltage or a contact closure. **Power supply included.**

Model	DOD #
<b>TDR-1</b>	<b>421</b>

**NEW**



### Line Powered Loud Ringer

This auxiliary electronic ringer operates on any analog line that provides a minimum of 40 volts 20-30 Hz AC ring voltage. Nominal 3 KHz warble provides up to 92 dB SPL @ 1 meter. The **LPR-1** can be connected via screw terminals or modular **RJ-11** jack. A volume control and a 6 foot modular cord are provided. **No power supply is required.**

Model	DOD #
<b>LPR-1</b>	<b>550</b>



### Loop Detector Board

The **LDB-1** provides a contact closure when used in series with telecom devices on analog phone lines. Analog **PABX, CO** line or **FXS** port powered.

Model	DOD #
<b>LDB-1</b>	<b>406</b>

### Talk Battery Booster

Model **TBB-1B** (see page 31)

### Generate a CPC Disconnect

Model **CPC-1** (see page 31)



### Loop and/or Ring Detector

**Operate strobe lights, security cameras, etc.** The **LDB-2** Ring/Loop Detect monitors an analog phone line for ringing and/or in use condition. 2 sets of relay contacts are activated when these conditions are detected. When monitoring for ring, the relay can be adjusted to stay on steady or follow a ring cadence. A 12 volt output is provided. **Power supply included.**

Model	DOD #
<b>LDB-2</b>	<b>408</b>



### Multi-Tone Generator

**Provides 10 different siren, warble, and chime tones.**

The **MTG-10** can be connected to a paging source, phone system's paging port or background music. When a contact closure is provided to one of the inputs, the paging or background music is faded out and the appropriate tone is generated over the paging system. The siren and the evacuation whoop have priority and override any other tone.

The **MTG-10** can also be configured to provide a tone every 15 seconds to notify callers that their call is being recorded.

**Power supply included.**

Model	DOD #
<b>MTG-10</b>	<b>482</b>



### Advanced Loop and/or Ring Detector

**Ideal for use with two-button emergency phones!**

The **LDB-3** monitors an analog phoneline, **PABX** or **FXS** line and provides a **normally open** or **normally closed** contact during ringing, off hook or both. The unit can also provide a 12V DC 350 mA output for strobes. The **LDB-3** can follow the ring cadence or stay on steady during ring. It can be set up not to activate from "Info" on two-button phones.

**Power supply included.**

Model	DOD #
<b>LDB-3</b>	<b>409</b>



Model	DOD #
PA-2A	485

### Multi-Line Loud Ringer/2 Watt Paging Amplifier

- For **PABX** and electronic key system applications
- Drives up to 3 eight Ohm paging horns/speakers

The **PA-2A** monitors up to 6 analog lines for ringing or can be activated by a phone system contact closure. A loud electronic warble (110 db @ 1 meter), a chime, a gong or a door chime can be selected to announce incoming calls. To page, connect to a paging port or unused **trunk** input or **FXO** port on a phone system. The unit provides 2 watts of power - enough to drive 3 eight ohm speakers. The **PA-2A** has an input for a loud ringing on/off switch, an output for controlling a 12 volt relay and a 600 ohm output for sourcing high powered paging amplifiers. The **PA-2A** includes one paging horn and **power supply**.

For additional ceiling speakers and paging horns use models **25AE**, **30AE** and **35AE** (see page 19 for specifications).



Model	DOD #
CPA-7B	455

### General Purpose 6-Watt Telecom Paging Amplifier

- For **Centrex**, **PABX** and key system applications
- Drives up to 8 eight Ohm paging horns/speakers

The **CPA-7B** allows paging from a key, **PABX** or **Centrex** paging port, or connect to an unused **trunk** input or **FXO** port (provides 19 volts of talk battery). The **CPA-7B** can also answer a ringing analog **PABX** station, **Centrex**, **C.O.** line or **VoIP FXS**, to allow paging, then disconnect on **CPC** or adjustable time out. The **CPA-7B** provides an alert tone prior to paging. Background music can be added from an external source. An electronic warble tone is available for loud ringing or night bell applications. Multiple units can be cascaded to drive more speakers. One weatherproof paging horn and **power supply included**.

For additional ceiling speakers and paging horns use models **25AE**, **30AE** and **35AE** (see page 19 for specifications).



Model	DOD #
PA-30	489

### 30 Watt Professional Telecom Paging Amplifier

- For **PABX** and electronic key system applications
- Drives up to 30 eight Ohm paging horns/speakers or 50 70V or 25V speakers

The **PA-30** provides paging from the phone system paging port or connect to an unused **trunk** input or **FXO** port (provides 40 volts of talk battery). The **PA-30** has separate inputs and volume controls for paging, auxiliary source, loud ringing and background music. A contact closure or ringing line can activate loud ringing. A warble, double gong, quadruple chime or door chime sound can be selected. The **PA-30** also has inputs for a night transfer (loud ringing) on/off switch. The **PA-30** has a 600 ohm output to drive additional amplifiers. Electronic switching eliminates pops and clicks. **Power supply included**.

For additional ceiling speakers and paging horns use models **25AE**, **30AE** and **35AE** (see page 19 for specifications).



Model	DOD #
SLP-1	478

### Single Line Paging Controller/2 Watt Amplifier

- Add paging, phone-to-phone intercom and door chimes to your whole house audio system.

The **SLP-1** allows the user to page family members or coworkers from any phone in your home or small business. Pages are heard over the same speakers installed for multi-zone music distribution. Music is muted during the page and optionally during phone calls. If the user is on an in- or out-bound call, the caller can be placed on hold with music during the page. The **SLP-1** can provide ringing and door chime over the system. An input for a lighted doorbell switch and an output for 12 volt trigger or relay contact is provided. The unit controls both mono and stereo sound systems. An auxiliary 2 watt mono amplifier can power 3 paging horns or speakers. Analog **PABX**, **CO** line or **FXS** port. **Power supply included**. (Also see **SLP-4** on page 20)





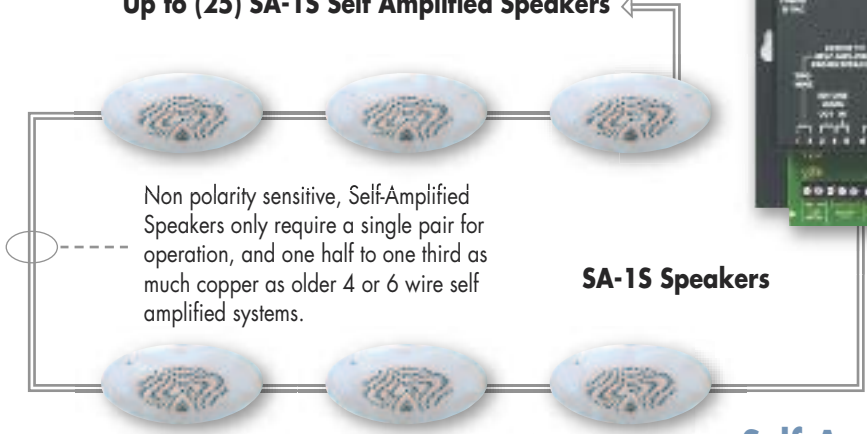
## Self-Amplified Paging System

**NEW**



Viking's SA-Series Self-Amplified Paging System eliminates a ladder climb every time users want to change any speaker's volume or features, and there is no need to manage background music zones. Just point the remote at the individual speaker and adjust the volume, mute background music but still receive pages, or mute both background music and paging.

### Up to (25) SA-1S Self Amplified Speakers



Non polarity sensitive, Self-Amplified Speakers only require a single pair for operation, and one half to one third as much copper as older 4 or 6 wire self amplified systems.

SA-1S Speakers

Includes one SA-IR remote



### Self-Amplified Paging Control Unit

The SA-25 Self-Amplified Paging control unit interfaces with virtually any telecom or IP phone system with a paging port, a ringing analog FXS or an FXO port. The system can provide background music from an external source and generate loud or night ringing from a ringing analog station or phone system contact closure. The SA-25 control unit is backwards compatible with the older Legacy Valcom and Bogen 4-wire self-amplified speakers.

The SA-25 can directly drive a combination of up to 25 self amplified Viking 2-wire and/or older Legacy 4-wire self-amplified speakers. **Power supply included.**

### Infrared Remote

Model SA-IR is a three button infrared remote control for use with Model SA-1S self amplified paging speakers. Aim the infrared transmitter at the speaker. The up/down buttons allow users to set the appropriate volume level for each room, while the mute button eliminates just background music or all sounds.

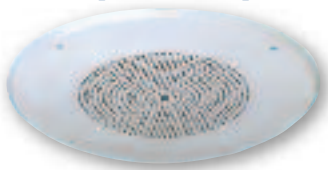


Model	DOD #
SA-IR	527

Model	DOD #
SA-25	520

SA-25 Brochure DOD #902

### Remote Controlled Self-Amplified Speaker



Model SA-1S is an 8 inch paging speaker that has built in 1.5 watt power amplifier, an infrared remote control detector, and an integrated digital volume control, all built into an attractive off-white grill for flush mounting in office ceilings. The SA-1S self-amplified paging speaker uses a proprietary two wire protocol in which both 40 volts DC power and audio are combined on the same pair of wires. Connect only to Viking Model SA-25 controller or use the SA-X12 expander to connect to any paging system.

Model	DOD #
SA-1S	525

### Infrared Remote Controllable Paging Horn

**NEW**



The Viking model SA-1H is a 5 inch paging horn that includes a 1.5 watt power amplifier, an infrared remote control detector, and an integrated digital volume control. The SA-1H self amplified paging horn uses a proprietary two wire protocol in which both 40 volts DC power and audio are combined on the same pair of wires. It is designed for direct connection to the Viking model SA-25 Controller or SA-X12 Expander.

Model	DOD #
SA-1H	526

### Expander/Adapter



Model SA-X12 is a cost effective way to expand an existing paging system while adding remote control. Connect the SA-X12 to any existing paging audio (600 ohms, 25V, 70V, 4, 8, or 16 ohms or an SA-25 controller) and add up to (12) SA-1S speakers. **Power supply included.**

Model	DOD #
SA-X12	529

## Eliminate The Feedback "Squeal" When Paging

- **Contact or VOX (adjustable sensitivity) activates Paging Amp**
- **Improved Fidelity (80K) • Output: 2V RMS into 600 Ohms**

Now your paging amplifier can be turned up to any level and your phones can be located anywhere – even directly under a high-power paging horn. The unit maximizes efficiency by adjusting to the actual page length (up to 32 seconds). A **contact** is provided to activate the amplifier, if needed.

**Power supply included.**

HOW IT WORKS: The "live" input from the paging port is digitally recorded. When complete, the paging amplifier is activated and the page is replayed once or twice.



Model	DOD #
FBI-1A	465

## Two-Way, Handsfree Talkback Amplifier

- **Unused Trunk Input or FXO Port**



Provides handsfree talkback paging for use in city desks, shipping, warehouses, service departments or any application where quick answers are needed. Connects to an unused **trunk** input or **FXO** port. Weatherproof bi-directional **paging horn (25AE) and power supply included.** One additional **25AE** paging horn can be used.

Model	DOD #
HF-3W	470

## Page Port, Trunk Input, FXO Paging Interface

- **Night Bell • Mutes Music • 600 ohm output • VOX switching**
- **Provides Talk Battery for connection to an unused trunk input or FXO port.**

Provides paging using phones (instead of a microphone) over a PA audio system. **VOX** contact closure mutes background music for phone systems with out a paging contact (Panasonic, S.W. Bell, Intertel, etc.). If a Paging Port is not available, use an unused **trunk** input or **FXO** port. **Power supply included.**



Model	DOD #
PI-1A	490

## Loud Call Announce/Ringing Amplifier For electronic key telephones in noisy areas

The **M2W** will amplify call announce messages and ringing tones when connected to the speaker leads of an electronic or digital telephone. It cannot be connected to a 2500 set. Use model **PA-2A**. The **M2W** is also useful for expanding the number of speakers connected to a **Viking PA-2A** or **CPA-7B**. (Page 16) Each **M2W** can provide 2 watts of paging power to drive three paging speakers.

**25AE paging horn and power supply included.**

Model	DOD #
M2W	480



Maximum distance from **M2W** to paging horn is 250 feet.

## Night Bell Over Existing Paging System

**Applications: Offices, Warehouses, Clinics – Anywhere people may be working after the receptionist goes home.**

Connect to the night service line to provide electronic warble tone over an existing paging system whenever ring voltage is detected. The **K-600F** has both tone and level adjust and provides a relay **contact** for muting music or operation of external signalling devices, 120V bells, strobe lights, chimes, etc. The **K-600F** operates from 60V ringing.



For generating audible tones from a **contact closure** use model **PA-2A** (Page 16) or **PI-1A** analog **PABX, CO** line or **FXS** port. (above). **No power supply required.**

Model	DOD #
K-600F	476

## Universal Telecom/IP Paging Interface

- **Select: FXO (loop start), FXS (ring trip) or paging port (VOX relay) interface mode**
- **30 V Talk Battery for use with an FXO port or unused trunk input.**
- **600 ohm volume controlled floating output - Mutes Music during page**

In all modes the **FXI-1** provides normally open or normally closed relay contacts to activate the central paging amplifier equipment or connect to an external background music source. After paging, the **FXI-1** auto disconnects on **CPC**, busy signal, silence or default disconnect timer. An electronic night bell over paging feature can be activated from a momentary phone system contact closure. **Power supply included.**



Model	DOD #
FXI-1	494

## Night Switch for Viking Products

The **NS-1** is an on/off toggle switch mounted in a convenient plastic case. The **NS-1** can be used with any product that requires an external switch closure. The compact design and foam mounting tape make it easy to install the **NS-1** almost anywhere. The **NS-1** has 24" wires and comes with two quick connectors.



Model	DOD #
NS-1	540

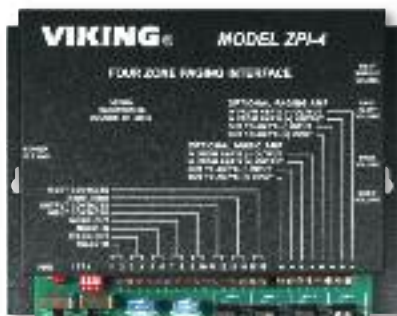


## 4 Zone Paging Controller

- Expand up to 8 zones using 2 units
- Switch up to 200 Watts to 8 ohm speakers

### Applications

- Multiple zone paging for **Centrex** systems
- Multiple zone paging for phone systems with paging ports, unused analog station/**FXS** ports or unused **trunk/FXO** ports
- Multilevel warehouse
- Multiple department manufacturing business
- Multi building office complex
- **Power supply included**



Compatible with these Viking Products

- PA-2A
  - CPA-7B
  - PA-30
- } Page 16
- Any paging Amp up to 200 Watts

Model	Description	DOD #
<b>ZPI-4</b>	4 Zone Paging Controller	<b>499</b>

The **ZPI-4** is a four-zone Touch Tone controlled paging system capable of switching a line level (600 ohms) signal to amplifiers or an amplified signal (up to 200 watts to 70V or 8 ohm speakers).

The **ZPI-4** features balanced audio circuitry throughout for low noise and compatibility with balanced or unbalanced paging system inputs and outputs. There are separate level controls for paging and background music. Background music can be disabled on a per-zone basis. Also provided, is a night bell with adjustable volume, activated by a dry contact closure or a ringing **C.O./**analog **PABX/KSU/FXS** station. The **ZPI-4** is compatible with ringing **C.O.** lines, **Centrex** lines and analog **PABX/KSU/FXS** station ports (Disconnects on silence, **CPC** or time out) as well as unused trunk inputs, and will interface directly with standard paging ports.

## Single Line Smart Loud Ringer

- Operates from a ringing analog line or a contact closure

- 4 different tones available, Warble, Double Gong, Quadruple chime, Electronic Bell
- Provides a door chime tone for either a doorbell, door open or "Push for Assistance" sensor
- 90 db @ 1 meter, 105 db with external **25AE** paging horn



- **Power supply included.**

**Line powered loud ringer** (see page 15)

Model	DOD #
<b>SR-1</b>	<b>477</b>

## 8-ohm Ceiling Speaker Assembly

Includes white grill, mounting hardware and 8" wide range speaker. For **1- and 2-way** applications with **CPA-7B, DVA-2WA, HF-3W, M2W, PA-2A** and **PA-30**.



Model	DOD #
<b>30AE</b>	<b>498</b>

Paging Speakers: How many? Where should I place them? What model? Request **DOD# 877**



**NEW**

### Tile Bridge

Use when mounting Viking Models **SA-1S, 30AE** or **35AE** Ceiling speakers on 2' x 2' or 2' x 4' ceiling tiles

Model	DOD #
<b>SA-TB</b>	<b>532</b>

## Outdoor/indoor 12-Watt 8-ohm Paging Horn

Use for any directional outdoor, factory paging application. Compatible with Viking Models: **CPA-7B, DVA-2WA, HF-3W, M2W, PA-2A** and **PA-30**.



Model	DOD #
<b>25AE</b>	<b>498</b>

## Ceiling Speaker with Volume Control

Includes 8" wide range 8 ohm speaker, white grill, **built-in volume control** and mounting/installation hardware. Use for any office or commercial ceiling application. Compatible with all Viking 1-way paging amps: **CPA-7B, DVA-2WA, M2W, PA-2A** and **PA-30**, or any 8 or 16 ohm paging system. Not recommended for 2-way (talkback) paging applications (instead use **Model 30AE**.)



**Volume Control**

Model	Description	DOD #
<b>35AE</b>	Ceiling Speaker with Volume Control	<b>498</b>

## Speaker Volume Control

Adjust the volume of individual paging horns, ceiling or wall speakers. Compatible with Viking 1-way paging amps. or any 8 or 16 ohm or 25 volt paging system. Mounts in standard single gang electrical box. Not recommended for 2-way (talkback) applications.



Model	Description	DOD #
<b>SV-5W</b>	Speaker Volume Control	<b>488</b>

## Add Paging & CD Quality Door Chimes to Your Whole House Audio System

- Select from 8 preloaded **CD quality** files or download your own custom **WAV files** via your **USB port**.
- Page from multiple lines by connecting multiple units

The **SLP-4** Single Line Paging controller will allow you to page family members or co-workers from any phone in your home or small business office. The pages can be heard over the same speakers that are installed for multi-zone music distribution.

The **SLP-4** provides inputs for 4 lighted doorbell switches. The inputs select 4 different **CD quality** sounds from a library of eight pre-recordings including Westminster 4 bell chimes, wind chime notes, barking dog, etc. Alternatively, users may record their own **CD quality** sounds into the **SLP-4** from their **PC's USB** port. When the doorbell switch is pressed, or the user pages, the music is muted while the appropriate sound or page is heard over the system speakers.

The **SLP-4** connects in series with a single existing phone line. The unit has a built-in 2 watt amplifier, stereo pre-amp output, music on hold input, intercom features, and selectable loud ringing.

**Power supply included.**



Compatible with the C-200, C-250, C-1000B, C-2000B

Model	Description	DOD #
<b>SLP-4</b>	Single Line Paging Adapter with 4 Chimes	<b>479</b>

**NEW Online:** A library of over 80 different downloadable sounds on the Viking website to customize your **SLP-4**. Go to [www.vikingelectronics.com](http://www.vikingelectronics.com) and click on "Library of Sounds" under Quick Links. Select model **SLP-4** to preview and download sounds directly to your computer - easily upload to the **SLP-4** via **USB**.

## Digital Mass Emergency Notification/Evacuation Announcer

- 5 Different Recorded Mass Notification/Evacuation Messages Over Your Existing Paging System
- Securely Activate, Reset or Live Page from a Remote Phone
- Select from 10 Different Alert Tones

Model **DNA-510** is a cost effective digital mass notification/ emergency announcer designed to work with a building or campus's existing paging system.

Model **DNA-510** can provide up to 10 different alert tones and up to 5 different digitally pre-recorded voice evacuation or lockdown instructions with a total record time of 2 minutes. Tones and messages can be repeated 1-99 times. The **DNA-510** connects to a phone line, **FXS** or **FXO** port, **PABX** station, or line input of a phone system and can be securely activated or reset from a remote location using a touch tone security code. A live page can also be broadcast.

When activated, the **DNA-510** will interrupt any current paging or background music and inject alert tones and emergency instructions over your paging system.

**Power supply included.**

Compatible with the **PA-2A, CPA-7B, PA-30** or any paging system.



### Alert Tone Applications:

- Evacuation
- Terrorist Alert
- Flash Flood
- Lockdown
- Fire
- All Clear
- Severe Weather
- Tornado

Model	Description	DOD #
<b>DNA-510</b>	Mass Notification Announcer	<b>492</b>

## Clock Controlled Tone Generator Over Paging

- Timed single, double or triple chime, or buzzer tones
- Easy to program, easy to change
- Alarm and standard NFPA/ANSI evacuation tones
- Programmable day of week on/off feature

Provides your paging systems with up to 128 timed alert tones per 24 hour period. Different alert tones may be used to indicate start or end of shift, break, lunch, etc. Dry **contact closures** can activate alarm, fire, evacuation etc., sounds over paging. A door chime is also available for night ring or doorbell. These sounds can be activated remotely via a telephone using **Viking RC-3** (Page 40). Use with the **DVA-2WA** (Page 26) for timed announcements.

All programmed tone events are stored in **non-volatile memory**. A 9-volt NiMH rechargeable battery (factory installed) maintains clock time for over 8 hours during a power failure. In the event of battery failure, only the time needs to be re-entered. **Power supply included.**



Model	DOD #
<b>CTG-1</b>	<b>460</b>



**NEW Master Clock/Clock Controlled Tone Generator Over Existing Paging System**

- **Accurate time base synchronizes periodically with the atomic clock via Internal modem**
- **Can also be used as a Master Clock to synchronize Viking CL series clocks**
- **Automatic daylight savings time and leap year correction**

Viking's model **CTG-2** is an advanced clock controlled tone/message generator designed to provide accurately timed tones and/or messages over your existing paging system. This provides a cost effective way of signaling school period changes, factory shifts, breaks, lunch periods or provide messages at specific times for store sales, promotions, closing times, airport loading zones, etc. The **CTG-2** can also be used as a master clock to automatically synchronize **Viking CL Series** clocks.

- Up to 14 schedules, and up to 1000 events
- Pre-loaded with common school, business and factory alert tones or download with your own messages/tones via the **USB** port
- Total of 6 minutes of **CD** quality WAV file record time
- 4 inputs for triggering emergency fire evacuation, severe weather, lock down and all clear alert tones or messages
- RS-485 output for communicating time sync data when used with **Viking CL Series** wireless analog and digital clocks (see below)

The **CTG-2** comes with programming software and a **USB** port to allow PC programming of timed events, schedules, Atomic clock synchronization, wave file download, message volume, day light savings time, leap year, auxiliary relay control, etc.



Once programmed you can change the **CTG-2's** schedules or turn the unit on or off remotely from any touch tone phone.

**Power Supply Included.**

Model	DOD #
<b>CTG-2</b>	<b>463</b>

**NEW Wireless Synchronized Clocks, RF Transmitters and Accessories**

- **All clocks have built in 1/4 watt repeaters capable of retransmitting the clock sync signal up to 500 ft in open space.**

Viking's Wireless Clock System provides reliable, accurately synchronized clocks for your entire facility. Eliminating dedicated clock wiring can save you thousands of dollars on installation and also allows for easy retrofitting. The system is comprised of a **CTG-2** master clock, a **CL-RFT** clock RF transmitter and Analog or Digital wireless slave clocks. The clocks will always display the correct time via Atomic clock updates from the **CTG-2**.



**CL-D2 & CL-D4**

**2.5" and 4" Digital Clocks** (shown with optional double mount bracket **CL-DMD2** or **CL-DMD4**)

Wireless bright digital clocks require 120 volt VAC outlet (24V Power supply included). The clocks are updated every minute from the **CTG-2**.



**CL-A16**

**16" Analog Clocks**

(shown with optional double mount bracket **CL-DMA16**)

Wireless Analog clocks are battery operated and require no wiring. Battery life using (2) D size Duracell Procell battery is more than 5 years. The clocks are updated every 4 hours from the **CTG-2**. Clocks can be located up to 6,500 ft. from the **CL-RPT** transmitter/repeater or up to 500 ft. from another synchronized clock.

**CAUTION: CL** series clocks cannot be used as stand alone clocks. They must be used in conjunction with a **CTG-2** master clock and one or more **CL-RFT** transmitters.

**12" Analog Clock**



**CL-A12**

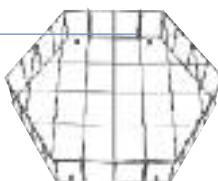
**RF Transmitter/Repeater**

The **CL-RFT** transmitter receives time sync data from the **CTG-2** and transmits to the clocks via 915 to 928 MHZ frequency hopping technology. Powerful 1 watt (30dBm) output communicates up to 6,500 ft. in open space. Can also be configured as a repeater for larger spaces. Dimensions 11"H x 8" W x 1.7" D. No FCC license required.



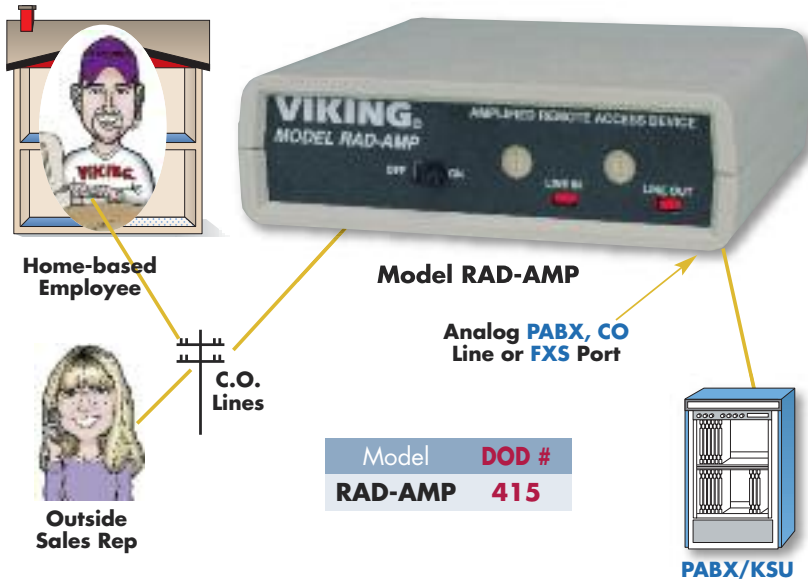
**CL-RFT**

**CL-WGA12 & 16**  
**12" and 16" Analog**  
**Clock Wire Guard**



Model	Description	DOD #
<b>CTG-2</b>	Master Clock	<b>463</b>
<b>CL-A12</b>	12" Analog Clock	<b>466</b>
<b>CL-A16</b>	16" Analog Clock	<b>466</b>
<b>CL-D2</b>	2.5" Digital Clock	<b>466</b>
<b>CL-D4</b>	4" Digital Clock	<b>466</b>
<b>CL-RFT</b>	RF Transmitter/Repeater	<b>466</b>
<b>CL-DMA12</b>	12" Double Mount (Analog)	<b>466</b>
<b>CL-DMA16</b>	16" Double Mount (Analog)	<b>466</b>
<b>CL-DMD2</b>	2.5" Double Mount (Digital)	<b>466</b>
<b>CL-DMD4</b>	4" Double Mount (Digital)	<b>466</b>
<b>CL-SMD2</b>	2.5" Surface Mount (Digital)	<b>466</b>
<b>CL-SMD4</b>	4" Surface Mount (Digital)	<b>466</b>
<b>CL-WGA12</b>	12" Wire Guard Analog	<b>466</b>
<b>CL-WGA16</b>	16" Wire Guard Analog	<b>466</b>
<b>CL-WGD4</b>	4" Wire Guard (Digital)	<b>466</b>

## Amplified Remote Access Device



### Telecommuting Features

- Works with cell and standard phones
- Supports **PABX** call transfer, voice mail, call conferencing and paging
- Log in, Log out capability
- Callers don't realize they've been transferred

### Features

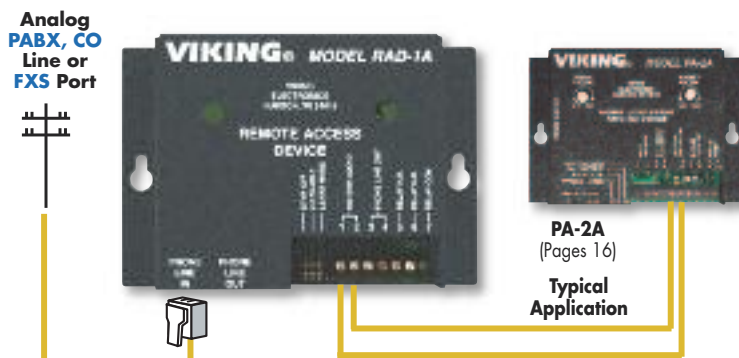
- Call Diverter, Line Extender • DISA
- Remote **SO-24A** Service Observation (Page 29)

The **RAD-AMP** is amplified for **DISA**, line extender, call diverter and remote access to **Viking's SO-24A Service Observer** (Page 29). The **RAD-AMP** disconnects on **CPC**, return dial tone, silence, busy signal or call timer.

It can provide two levels of security before allowing access to DISA or line extender applications. In line extender applications, the user does not have to hang up and redial the **RAD-AMP** to make another call. Simply dial "#2" to get a new dial tone. Dialing a "#1" provides a hook flash on the "Line Out" port to access **PABX/Centrex** features. **Power supply included.**

## Phone Line Powered Remote Access Device

- Remote Access to 1 way Paging Amplifiers • Advertisements • Radio or Church Programs



The **RAD-1A** is designed to allow you to call from any Touch Tone phone and then remotely access paging systems, digital recorders, etc. The unit connects to any **loop** or **ground start C.O., Centrex, PABX** line or **FXS** Port.

The **RAD-1A** answers on the first ring and disconnects on **CPC**, call time out, silence time out, or by dialing "#7". The **RAD-1A** provides a floating 600 ohm output and also an auxiliary relay **contact**.

The **RAD-1A's** call timer can be set to limit access time from 3 seconds to 2 hours.

For other applications; see **DOD# 874**

## Eliminate Long Distance Toll Abuse • Field Programmable Non-Volatile Toll Restrictors

- Applications: Courtesy Phones • Bars and Restaurants • Construction Site Phones • Employee Lunch Rooms • Time Share Condos • Roommates • Prevents 976 & 900 Abuse • Hotel/Motel • Inbound Only Phones (with override) • Calling Card Only • Emergency Phones

### Programmable Touch Tone and Rotary Toll Restrictor with Override Bypass Code

- **Non-Volatile Memory** - No batteries required
- **1 to 50 Minute Call Timer**
- **Analog PABX, CO Line or FXS Port Powered**
- **Centrex and PABX Compatible**

Program up to 40 prefixes, area codes or phone numbers to be blocked or allowed. The **TR-1** can block all Operator assisted calls, Directory Assistance, 976 and 900 calls, and "1+" long distance, while "1-800", "911", and other user selected calls are allowed.

The **TR-1** features can be programmed on site or remotely using a Touch Tone phone. The programmer must know the unit's security code to change the programming. The 6 digit override bypass code allows parents or supervisors to make calls normally blocked by the **TR-1**.

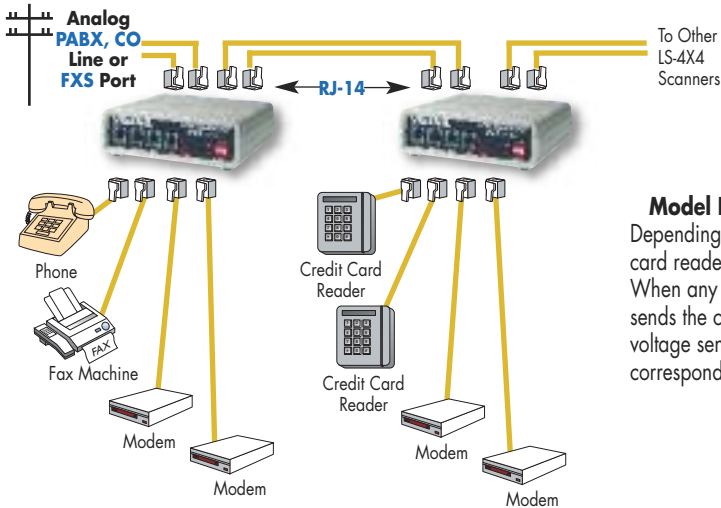


Model **TR-1** (shown open) are concealed in a standard **RJ-11** Jack.

Model	DOD #
<b>TR-1</b>	<b>705</b>

**Fax machines, modems and credit card readers** save time and improve communications. **Viking's Line Sharing** devices can save you the monthly \$20 to \$60 cost of installing additional phone lines. Now you can enjoy all the benefits of a modem or fax without the additional telephone line charges. **Viking's Fax Switches** pay for themselves in just a few short months.

### Line Scanner for Modem Pooling

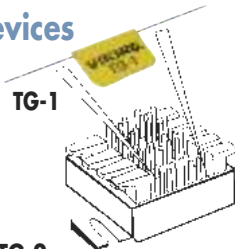


**Model LS-4x4** is a 4 device by 4 line unit which can be modularly expanded. Depending on the number of 4x4 scanners used, 4, 8, 12, 16, 20 or more modems, credit card readers, faxes, phones, etc., can share 1 to 4 analog **PABX, CO** lines or **FXS** ports. When any connected telecom device goes off hook, the **LS-4x4** scans for an open line and sends the call out. If no lines are available, the user receives a busy signal - compatible with voltage sensitive credit card readers. Incoming calls on each line can be routed to their corresponding device port. **Power supply included.**

Model	Description	DOD #
<b>LS-4x4</b>	Line Scanner for Modem Pooling	<b>270</b>

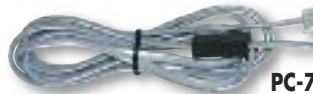
### Single Line Privacy Devices

For punch down or terminal block installation in series with Tip or Ring.



For modular applications. One **TG-2** will protect two devices.

The 7 foot **Automatic Privacy Cord** replaces the standard modular line cord connecting your telephone, fax machine or modem to any type of telephone line.



### Prevent Interruptions In Voice, Fax or Data

**Viking's Teleguard Automatic Privacy Devices** prevent your phone calls or fax/modem transmissions from being interrupted if someone accidentally picks up another extension. Teleguard also protects against eavesdroppers.

With **Viking's Teleguard**, whichever device accesses the analog **PABX, CO** line or **FXS** port first denies any other teleguard-equipped device access to the line until the call in progress is terminated. Incoming calls will ring into all devices simultaneously. The device that answers first denies any other teleguard-equipped device access.

Any telecom device not equipped with **Teleguard** can always break into a phone call or transmission.

### Two Line Privacy Device



The **PJ-14** provides one or two lines of Teleguard protection built into a wall mountable **RJ-14** jack.

Model	Description	DOD #
<b>TG-1</b>	Single Line Privacy Device	<b>560</b>
<b>TG-2</b>	Two Device Modular Device	<b>560</b>
<b>PC-7</b>	Automatic Privacy Cord	<b>560</b>
<b>PJ-14</b>	Two Line Privacy Device	<b>560</b>

### Four Port Enhanced Auto Routing Switch

- Allows any four analog devices to share a single line
- **Ports are balanced to prevent noise on long runs**
- **Caller ID information is stored and retransmitted during transfer**
- **Provides realistic ring-back tones while re-ringing selected device**
- Routes calls via **CNG** tone, **distinctive ringing**, touch tones sent by calling device or manually
- Compatible with high speed modems
- Automatic "privacy" eliminates interruptions on both in and outbound calls
- Monitors for calling party control (**CPC**)
- **Power supply included.**



Model	Description	DOD #
<b>FAXJ-1000</b>	Four Port Enhanced Auto Routing Switch	<b>261</b>

## Glossary of Telecom Terms

**26 Bit Wiegand Format** - The industry standard data output of access control card readers.

**ACD - Automatic Call Distributor** - A device for distributing many calls uniformly among a group of agents or operators. The ACD pays attention to real time traffic load and other factors like which agent has been the busiest or idle the longest, to evenly distribute call traffic to the agents (also see **UCD**).

**ADA - Americans with Disabilities Act** - Legislation passed in 1992 to assure equal building access for the disabled, which also included equal access to emergency assistance in the event of an elevator emergency.

**AGC - Automatic Gain Control** - Electronic circuit which automatically increases the volume when someone is speaking quietly and drops the volume when someone is speaking loudly, to keep the transmitted signal constant.

**A-Lead** - Control leads that come from 1A2 key telephone to operate features like flashing of lights to indicate a busy, holding or ringing line.

**Analog Single Line Station** - An extension port on a **PABX/KSU** that will allow a standard household type phone to interface with the system. (**POTS**)

**ATA - Analog Telephone Adapter** - Analog Telephone Adapter, allows user to connect analog telecom devices to their **LAN, WAN** or internet (See **FXO, FXS**).

**AWG - American Wire Gauge** - The higher the **AWG** number the thinner the wire.

**BOM - Beginning of Message** - A short electrical pulse provided by a digital announcer when used in certain 4 wire **E & M** modes. The pulse alerts the **PABX** that the Beginning of a Message is coming.

**Butt Set**: a sophisticated, one piece, telephone used by technicians to diagnose telephone lines or equipment.

**Call Progress Detection (Analysis)** - A feature of some terminal devices that allows the **Terminal Device** to detect when a call has been answered, so the device can play a recorded announcement to the person that answered.

**Carbon Transmitter (Handset)** - The microphone of a telephone handset which uses carbon granules and a diaphragm. The diaphragm responds to voice and varies the pressure on the granules and hence, their resistance.

**Cat 5E** - This is a performance category for 8 conductor twisted pair wire. It defines the maximum data rate that a cable can handle.

**CD Quality** - Digital audio utilizing 16 bits of resolution at a sampling rate of 44.1k, which is the same as audio CD's. Better sounding than other compressed formats such as MP3.

**C.O./CO - Central Office** - A main telephone office where switching equipment is housed and customer lines originate. Also contains **Trunk** line connections to other Central Offices. A **C.O.** line is a phone line coming from the Central Office and terminating at the user's premise.

**Central Station Monitoring** - Service provided to monitor security systems and emergency phones 24 hours a day. Often uses a high speed **DTMF** communication format to automatically identify where the call is coming from.

**Centrex** - A name for an umbrella service offering of the local telephone company. Customers lease a portion of the Central Office switch to create a centralized point of control and routing. In concept, Centrex is providing similar features to a **PABX**. In some areas, also known as Centron, Cenpac, or **Plexar**.

**CMOS - "Complimentary, Metal Oxide Semiconductor"** - When used for the image sensor in video cameras it allows a wide operating temperature range with high reliability.

**CNG - Calling** - 1100 Hz .5 second tone generated every 3.5 seconds by fax machines.

**Contact Closure** - Contacts that when "closed" connect a pair of wires together and disconnects the wires when "open". A doorbell button is a simple example of a momentary contact closure.

**CPC - Calling Party Control (Disconnect Supervision)** - A short break in the line current in the called party's phone line when the calling party hangs up. Not available on most **PABX**'s.

**Demarcation Point (box)** - Typically the point at which the phone line enters the building. The telephone company is responsible for all wiring up to this point.

**DHCP - Dynamic Host Configuration Protocol**

**DISA - Direct Inward System Access**

**DID - Direct Inward Dialing** is a feature allowing callers to directly reach a **PABX** extension without an operator's assistance.

**Distinctive Ringing (also known as ringmate, custom ring, identifying ring master)** - Different patterns of ringing that allow a user to identify the source of the call, outside, or inside (intercom) or who the call is for. Usually two burst or three burst with different durations.

**DSL - Digital Subscriber Line** - High Speed digital data on standard two conductor voice grade telephone wiring. Allows high speed Internet access and telephone calls to take place simultaneously.

**DSL Filter** - Filter designed for **DSL** lines that prevents the normal telephones from hearing the high speed digital data and interfering with the data.

**DTMF - Dual Tone Multi-Frequency (Touch Tone)** - Audible tones which conform to North American Telephone Standards. These are generated by push-button telephones to dial telephone numbers, as well as to provide control or data input to voice processing systems. Especially significant in the operation of Viking automated attendants and fax/data line sharing devices.

**E<sup>2</sup> Memory** (See **Non-Volatile E<sup>2</sup> Memory**)

**E & M Control /4 Wire E & M** - An equipment signaling system usually used in **PABX** applications with a digital announcer. This interface control scheme is standard equipment on most Viking announcers.

**Earth Ground** - A wire conductor that terminates in the earth for electrical purposes.

**FCC - Federal Communications Commission**

**Facility Code** - A 3 digit number that each **Proxy Card** contains in order to provide greater security. Usually the cards used at a given building all have the same facility code.

**Fiber Optic Modems** - Devices to extend a telephone link on fiber optic cable.

**FXO** - An analog input **RJ-11** port just like a **POTS** trunk input on a **PABX** or key system. An FXO port receives talk battery and ring voltage.

**FXS** - An analog output **RJ-11** just like a station port on a phone system or **PABX** extension. It provides **Talk Battery**, dial tone, and **Ring Voltage**.

**Ground Start Line** - A type of call signaling. In this scheme, when a call is routed to a subscriber, the phone company will apply a ground signal on the TIP side of the line even before a **Ring Signal** is sent. By detecting this signal, phone systems can immediately determine that the line is about to be in use, and avoid call crashing.

**Hook Switch Flash or Switch Hook Flash** - A signal originated by momentarily depressing the switch hook on a single line phone. Typically used for accessing **C.O.** or **PABX** features.

**Hz - Hertz** - Indicates the frequency (number of cycles per second) of alternating current such as **Ringing Voltage** or Touch Tone signals.

**Intercept** - To stop a telephone call directed to an improper telephone number, and redirect that call to an operator or recording.

**Industry Canada** - Is the equivalent of U.S. **FCC**.

**ISDN - Integrated Services Digital Network** - An emerging international standard that defines interfaces for simultaneous voice and data transmission through a single channel over the public network.

**ISDN Terminal Adapter** - An interface between an **ISDN** line and a computer. Often these provide 1 or 2 analog **POTS** output ports.

**KSU - Key Service Unit** - A central control cabinet serving many multi-button key telephones. Contains equipment which enables the user to pick up and hold **PABX** or Central Office lines and provide flashing line, steady, busy, and wink hold signals. Dial intercom service is also an option.

**LED - Light Emitting Diode.**

**Loop Current** - (typically 20 to 50 mA) Current that flows from the **C.O.** when a telecom device goes off hook.

**Loop Start Line** - A type of calling signal that relies on a telecom device to allow DC current to flow when it goes into an off hook condition. The **C.O.** or **PABX** senses this current and intercepts it as a request for service. Also known as "**POTS**".

**Loud Ringing** - A tone sent over a paging system that is typically triggered by **Ring Voltage** or a dry **Contact Closure**.

**MOH - Music On Hold**

**Night Ringing** - The same as **Loud Ringing**, but usually disabled during the day or "normal business" hours.

**N.O./N.C. - Normally Open/Normally Closed** Contact.

**"No KSU"** - A phone containing all control functions normally associated with a **KSU**, thus not requiring a **KSU**.

**Non-Volatile E<sup>2</sup> Memory** - Memory that will not be lost from a power failure: Does not need battery backup.

**OPX - Off Premise eXtension** - A telephone line from the phone system terminated in a different building than the phone system.

**PABX - Private Automatic Branch eXchange** - Phone system used to switch telephones between extensions and to outside lines. For incoming and outgoing (dial 9) calls.

**Page Code** - An access code of a **PABX** that allows users to access the paging equipment to voice page.

**Page Port** - A 600 ohm audio output of a **PABX** intended to connect to an external paging amplifier.

**Page Trigger** - A signal provided to an amplifier to automatically switch the amplifiers input or mute background music during a page. Typically a "dry" **Contact Closure**, but in some cases can be a 5 volt DC or 12 volt DC trigger voltage.

**PBX** (See **PABX**).

**PCB - Printed Circuit Board.**

**POTS - Plain Old Telephone Service** (See **C.O., Analog Single Line Station, Loop Start Line**).

Continued on next page





**Phono (RCA) Plugs** - Shielded cable and connector arrangement that is primarily used for low level audio or video connections.

**Plexar** - (See **Centrex**)

**Proxy Card** - A credit card sized 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.

**Proxy Card Reader** - A device used to read the data from a **Proxy Card**. The **Proxy Card** can be read when held within a few inches of the reader.

**Rack Mount** - Equipment which is designed to mount in a standard steel framework consisting of parallel pairs of steel channel verticals spaced 19" and drilled for mounting screws.

**RAD/RAN Device - Record/Announce** - a device such as a Digital Announcer.

**RAN Trunk/RAN Circuit - Record/Announce Trunk or Circuit** - Connects the telephone system to a record/announce device.

**REN - Ringer Equivalency Number** - 1 REN = The energy to ring 1 Plain Old Telephone. The REN number can be found on the **FCC** label on the device. The total ringer load on a line is equal to the sum of all the REN numbers of all the telephone devices connected to the line.

**RF - Radio Frequency** - Electromagnetic waves operating between 10 KHz and 3 MHz propagated without guide (wire or cable) in free space.

**RF Choke** - A device intended to prevent **RF** waves from entering a wire or cable.

**Ring Back Tone** - The sound you hear when the phone you call is ringing.

**Ringdown Circuit** - A circuit connecting 2 devices so that when one device goes off hook it automatically rings the other device.

**Ring Generator** - (See **Ring Voltage**) - A circuit producing AC voltage that is higher than 50 Volts and has a frequency of 20 Hz.

**Ring Signal** - (See **Ring Voltage**).

**Ring Trip** - The process of stopping the AC **Ring Signal** and connecting the voice path at the **C.O.** when the ringing telephone is answered.

**Ring Voltage** - A 20 Hz AC voltage higher than 50 Volts **RMS** superimposed on the phone line to ring bells, activate ring detectors in phone systems, faxes, modems, etc.

**RJ-11, RJ-14, RJ-21X, RJ-25 - Request DOD# 839**

**RMS - Root Mean Square** - This is simply a fancy way of describing the average voltage level of an audio signal or **Ring Voltage**.

**RS232** - An Electronic Industry Association (EIA) standard that defines a computer interface for connecting serial communication devices such as printers and modems.

**RS-485** - is a standard defining the electrical characteristics of drivers and receivers for use in balanced digital multipoint systems.

**66 Block** - A terminal block where up to 4 sets of up to 25 pairs of wire can be interconnected. The installer uses a special "punch down" tool to connect the wires.

**SLT - Single Line Telephone.**

**SOHO - Small Office/Home Office** - An acronym for a new class of employment where the employee may be performing part or all of their work at home in a small office set up.

**Subscriber Line** - The telephone line connecting the local **Telco** Central Office to the customer's telephone instrument or telephone system.

**T1** - 24 channel high speed digital line.

**Talk Battery** - DC voltage supplied by the **C.O.** to the subscriber's loop to operate the telephone equipment.

**Telco - Local Telephone Company**

**Terminal Device** - Telephone, phone system, fax, modem, etc. capable of terminating an analog phone line.

**Trunk** - A telephone communication path or channel between two points, one usually being a Central Office.

**Trunk Port** - An input on a **PABX** or **KSU** that is used to interface the system with **C.O.** lines.

**UCD - Uniform Call Distribution** - A device for distributing many calls uniformly among a group of agents or operators, following simple logic like "top down" or "round robin". It will not pay attention to real time traffic load or any other factors like which agent has been the busiest or idle the longest (see **ACD**).

**UPS - Uninterruptible Power Supply** - Provides power to your phone equipment, computers, etc., in the event of a commercial power failure.

**USB - Universal Serial Bus** - A serial bus standard to interface devices to a host computer.

**VoIP Gateway** - A digital-to-analog converter. Some multi-function gateway units combine several functions in one device, such as a built-in cable/**DSL** modem, Ethernet ports and router capabilities, and **FXS** ports. A single function gateway, also known as an analog telephone Adapter (**ATA**), contains an **RJ-45** port to connect to the internet, and an **RJ-11** port to connect to analog devices.

**VoIP - Voice over Internet Protocol** - The technology used to send voice over a data network using internet protocol. There are many potential benefits to this new technology; less cost (no local/long distance charges), voice and data handled by the same network, and many new integrated services become available.

**VOX - Voice Operated eXchange** - The feature of some Terminal devices that provides automatic switching or activation when sound or voice energy is detected. Sometimes used to eliminate the need for push-to-talk operation.

**WAV File (or WAVE File)** - is short for Waveform audio format, and is a Microsoft and IBM file format standard for storing an audio bitstream on PCs.

## When you buy a Viking Product everything you need to install it is included in the box!

Viking provides all the following items if required...power supply, paging horn, T-adaptor, allen wrench, screws, audio and remote cables, double backed tape, rubber feet, a technical practice and warranty information.



**Grant William Heideman**  
Baby priceless, not included.

## P.C. to Phone Line Interface/Controller

- **Windows 98, NT 4.0, 2000, XP and 7 compatible software**
- **Emergency Phone Polling** (Page 4-7)
- **Remote Programming of AES-2000 Entry System** (Page 39)



(PC not included)

**NEW** Hotel/Motel wake up application on the CD ROM.

**NEW** Emergency phone polling/programming application

The **PB-100** connects to a serial or **USB** port on your P.C. and also to an analog phone line. The **PB-100** accepts ASCII commands to seize the phone line, watch for busy, and to send and receive Touch Tones or data. If the P.C. is equipped with a sound card, the audio input and output can be coupled to the phone line. **CD ROM** is included with programs to do emergency phone polling, **AES-2000** (Page 39) programming, hotel/motel wake up dialer or design your own voice announcer, message center, etc.

**Power Supply Included.**

Model	DOD #
<b>PB-100</b>	<b>232</b>

### Digital Voice Announcer with 7.5 Minutes of Record Time

**Applications: Promotion-On-Hold, Airports,  
Message Repeater, Museum/Information Displays,  
Moving Sidewalks**

- 2 watt amplifier for use with paging speakers and horns
- **AGC** for recording from handset, tape, CD, PC soundcard, etc.
- 4 professional on-hold messages included
- Recording can be on-site or in a professional studio
- **Power supply included**



Brahms Lullaby Announcer  
see **DOD# 865**

Model	Description	DOD #
<b>DVA-2WA</b>	Digital Announcer with 2 Watt Amplifier	<b>110</b>

### Time and Temperature Announcer

**Applications: Stand Alone Time and Temperature, Banks,  
Hotel/Motel Wake Up, Remote Temperature Monitor**

- Select Celsius or Fahrenheit
- **Ring trip** operation
- Local or remote recording
- Record up to 30 seconds of customized messages before or after the time and temperature announcement
- Can provide night message
- **Power supply included**



To listen to the **DVA-TNT**, call 715-386-8861 and request ext. 255

Model	Description	DOD #
<b>DVA-TNT</b>	Time and Temperature Digital Announcer	<b>129</b>

### Professional Digital Voice Announcer /Recorders

**Applications: ACD, UCD, Intercept, Hotel/Motel Wake Up, Night Answer, Ski Resorts,  
Movie Theaters, Work Schedules, School Closings, Out of Service, Etc.**



**Model DVA-500A**

- Single, up to 1 minute channel
- **Ring trip** or **4 wire E&M**
- Local or remote recording
- **Power supply included**



**Model DVA-1003B**

- 3 independent 1 minute channels
- **Ring trip** or **4 wire E&M**
- Local or remote recording
- Announcer cycles automatically, adjusts to message length
- **Power supply included**



**Model DVA-3003**

- 3 independent 1-4 minute channels or a single 12-minute channel
- **Ring trip** or **4 wire E&M**
- Local or remote recording
- **Power supply included**



Standard Carbon Handset for voice recording. Use with: **DVA-2WA, DVA-500A, DVA-1003B, DVA-3003, TMS-6X, TMS-12A**

Model  
**Q171030**

**Hotel/Motel Wake Up  
Application - See PB-100 (Page 25).**

Expand each channel to 2, 3 or 4 minutes with **ERAM-60** 1 minute kit.....  
**DOD# 813**

Model	Description	DOD #
<b>DVA-500A</b>	Digital Announcer (1 minute)	<b>115</b>
<b>DVA-1003B</b>	3-Channel Digital Announcer (1 minute/channel)	<b>125</b>
<b>DVA-3003</b>	3-Channel Digital Announcer (1-4* minutes/channel)	<b>127</b>

\*requires ERAM-60 expansion chips.

### Phone Line Powered Inbound Announcer

- **Ring trip** answer
- Single 16 second channel
- Remote record
- Plays 1-99 times (programmable)
- Also disconnects on **CPC**



Model	Description	DOD #
<b>DVA-LPA</b>	Phone Line Powered Digital Announcer	<b>128</b>

### Phone Line Powered Outbound Announcer

- Installs in series with outbound phone-gives announcement when answered
- Single 10 second channel
- Elevator ID/location identifier
- Record on-site

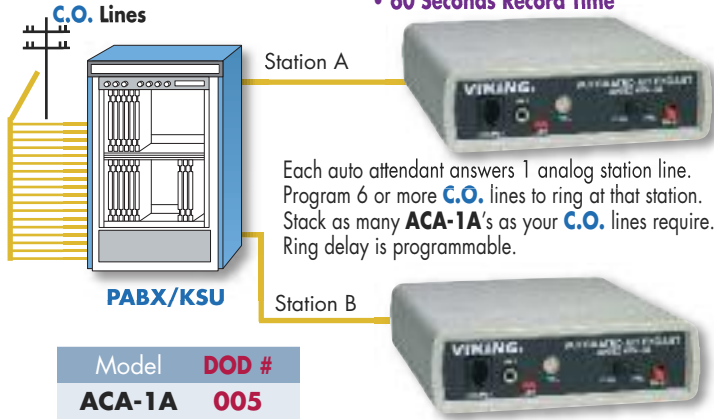


Model	Description	DOD #
<b>EV-1</b>	Phone Line Powered Digital Announcer	<b>135</b>



**Do I need a Call Sequencer or an Auto Attendant? DOD# 808**

### Affordable, User-Friendly Automated Attendant... For Centrex, PABX, and Many Key Systems



- Non-Volatile Memory-No Batteries
- 60 Seconds Record Time

**Viking's Automated Attendants** provide a cost effective solution to increased call traffic in busy offices. They answer calls with a high-quality digital voice announcement, then allow callers to use their Touch Tone phone to route themselves to departments or specific extensions. Callers can get to the right person faster without interrupting office personnel.

Announcement for "Greeting menu" (with up to 10 departments), "Please hold while transferring", and "Busy extension" can be recorded live on site using a **carbon handset**, remotely from a Touch Tone phone or downloaded from tape. Callers may interrupt the announcement at any time by dialing an extension number or single digit department code. A live operator is available by dialing "0" or doing nothing. Callers reaching a busy extension will be advised and allowed to choose again. As soon as a call is transferred, **Viking's Auto Attendants** are free to process new calls. The unit disconnects on **CPC**.

The automated attendant is compatible with **PABX, Centrex**, and many electronic key systems with analog or off-premise extension capabilities making them flexible for most applications. Stack as many units as necessary for larger systems. **Power supply included.**



AL  
Product Support Supervisor

### Can I Use A VIKING Auto Attendant On My Electronic Key System?

The answer must be "yes" to all of these questions

1. Can you connect a standard "2500" single line phone directly or via an **OPX** station card?
2. Can you program your key system to send incoming calls to the "2500" phone?
3. Can that "2500" phone answer, then **hookswitch flash** and blind transfer\* the call to another extension?
4. If that extension is busy, can the "2500" phone get the incoming call back to advise "The extension is busy"?

\*A blind transfer means that the "2500" set **hookswitch flashes**, dials an extension, but does not require that extension to answer before releasing the call.

### Call Sequencers Answer Calls Promptly and Professionally Eliminate "ring, no answer" during busy periods without hiring additional staff.

**Viking's** call sequencers answer incoming calls promptly when your staff is busy using your receptionist's own voice. The calls are held in the **TMS-6X** or **TMS-12A** until a staff member is available. While holding, the caller can listen to music or promotion from an external source. Callers calling in after business hours are given info on office hours then disconnected. Announcements are digitally stored

and can be recorded remotely from a touch tone phone or on site using a standard **carbon handset** or tape player. **Viking's** call sequencers are compatible with loop start lines ahead of the electronic or 1A2 key, and **ground start lines** ahead of Mitel and some Siemens **PABX's**. Other **PABX's** using **loop** or **ground start lines** require the **SQRG-12**.



#### 12-Line Call Sequencer

• Link (2) **TMS-12A's** for 24 line service  
The **TMS-12A** answers calls after 1, 2, 3 or 5 rings and displays the oldest call. The **TMS-RDMA**, **SQRG-12** and **LM-24D** provide added features. Can provide "**A-Lead**" control for 1A2 key systems. Changes to a day or night answer mode via remote contact timer or switch. **Power supply included.**

Model	DOD #
TMS-12A	070

#### Remote Status Displays

Easily seen (up to 50'), displays the next line (1-24) to answer. The **TMS-RDMA** has a volume-adjustable audible ring. The **LM-24D** (Page 28) indicates the line to answer next and also displays all lines held in queue on the **TMS-12A**.

Model	DOD #
TMS-RDMA	075

#### Eliminate Confusion on Which Line to Answer

Only the oldest call is displayed on the ringing line on all phones. Compatible with **loop** and **ground start lines**. **Power supply included.**

Model	DOD #
SQRG-12	060



#### 6-Line Call Sequencer

The **TMS-6X** answers calls after 3 or 5 rings and displays the oldest call. The **SQRG-12** and **TMS-RDMA** provide added features. **Power supply included.**

Model	DOD #
TMS-6X	065

#### Call Sequencer for 2-line Phones Includes Music on Hold Input

The **TMS-2** answers the calls you can't because you are on the other line, plays a message in your voice, then provides music or promotion on hold until you can answer. **Power supply included.**

Model	DOD #
TMS-2	062



### See if Lines are in Use or Ringing

- Viking's **24 Line Status Monitor** is compatible with analog **PABX** Station, **FXS** ports or **Centrex Loop** and **Ground Start Lines**
- In-use lines show a steady **LED**, ringing lines flash
- Volume adjustable common audible tone
- Ringing can be delayed up to 7 rings on a per line basis
- **Non-volatile memory**
- Desk or wall mounting display requires only 1 cable pair - Up to 3 displays can be connected to the scanner.
- **Power supply included**



Model	Description	DOD #
<b>LM-24S</b>	Display and Scanner	<b>670</b>
<b>LM-24D</b>	Additional Display	<b>670</b>

### Blue Strobe Light Kit

- **Optional Red, Amber and Clear lens sold separately (go to [www.vikingelectronics.com](http://www.vikingelectronics.com) and click spare parts)**

- **1,000,000 Candle power**

Model **BLK-3-EWP** monitors analog lines for ringing and/or off hook. Switch selection allows strobe to flash steady or follow ring cadence. It will not flash on incoming call (selectable) or "info" calls (**E-1600-20A** page 6). The kit includes 4" diameter waterproof strobe, hardware, **LDB-3** control module and **12V power supply**. For use with **Viking** emergency phone or any analog phone. **Enhanced Weather Protection (EWP) standard.**



**\*New BLK-4-EWP** strobe light kit with steady-on beacon feature (available 2nd quarter)

Model	DOD #
<b>BLK-3-EWP</b>	<b>653</b>
<b>*BLK-4-EWP</b>	<b>654</b>

### 911 Strobe Controller

**Nursing Homes, Office Buildings, Strobes for Rural Houses - When you need to know where a 911 call originated.**

- Activates on 911, 9-911, and 8-911 calls and 555 (test) or "custom number"
- Bright flashing  $\frac{3}{4}$ " **LED** visible over 100ft
- Resets by Contact Closure or Touch Tones
- Can provide 12VDC or relay contact to operate an external strobe or visual indicator

Model	DOD #
<b>SC-911</b>	<b>236</b>

### Strobe Light

- 1,000,000 Candle Power
- Requires 12VDC Power
- **Optional Red, Amber and Clear lens sold separately (go to [www.vikingelectronics.com](http://www.vikingelectronics.com) and click spare parts)**

Model	DOD #
<b>SL-1</b>	<b>240</b>
<b>*SL-2</b>	<b>242</b>



Also activates on user programmable number

- **Power supply included**



**\*New SL-2 LED** strobe light with steady-on beacon feature (available 2nd quarter)

### Visual Telephone Status Indicator

- **Bright  $\frac{3}{4}$ " LED** visible over 100 feet

#### APPLICATIONS:

- **Telemarketing**
- **Office cubicles**
- **Tech Support**
- **Customer Service**
- **Message Waiting**
- **Sales offices**
- **Power supply included**



**HEADSETS:** Flashing **LED** ends interruptions by indicating that you are "On the Phone". (Special T adapter provided.)

**ELECTRONIC PHONES:** Flashing **LED** eliminates guessing whose phone is ringing. Connect to electronic phone's speaker.

**ANALOG PHONES:** Flashing **LED** indicates "Ringing", steady **LED** indicates "On the Phone" and "stutter" flash indicates message waiting stutter dial tone is detected. Will also follow the cadence of 90 to 125v message waiting voltage.

Model	DOD #
<b>VR-1B</b>	<b>697</b>

### Visual "Ring", "Off-Hook" and "Message Waiting" Indication

The **Viking Model LPL-1** connects to any standard analog phone line to provide visual flashing "Ring", steady "On the Phone" or fast flash "Message Waiting\*" indication. The large flashing **LED** can be seen up to 100 feet away. When used with a headset on an analog phone, you can end interruptions when associates don't realize you are on the phone.

**Phoneline powered.**

Model	DOD #
<b>LPL-1</b>	<b>640</b>

\*When installed on phone systems with standard 90VDC message waiting voltage.



### LM-1A Message Waiting Light Retrofit Kit

- Operates on standard 70-180V DC message waiting voltage
- Fully modular for quick plug-in installation
- Blinks on message waiting or ringing
- 100% solid state for highest reliability
- **LED** visible for 50 feet
- **Replaces LM-1 and LM-1LV**



Model	DOD #
<b>LM-1A</b>	<b>662</b>

## Add Silent Service Observation to Any Phone System



- Allows supervisors to silently monitor their employee's phones
- New station wiring not required for analog key or single line phones
- Higher volume levels (adjustable)
- 24 station capacity can be expanded to 240 stations. Each SO-24A added, provides an additional 24 stations.
- Dial up code can be programmed to match the phone system's station or extension numbers.
- Call progress tones for observing supervisor



Cord set for digital phone systems

Model	DOD #
SO-24 AK	819

### Important Features

- Connect one to ten SO-24As to an unused phone system line input or to a dedicated single line phone
- Built-in "Talk Assist" feature
- Cables provided for external cassette recorder
- Can be configured for digital phones with SO-24 AK
- Automatic gain control equalizes in and outbound conversation levels
- Additional supervisors each require a parallel system

For remote access use  
**Viking Model RAD-AMP** (Page 22)

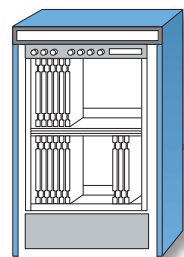
Now you can monitor, train, motivate, even assist your personnel or customer service staff without disrupting the activity at their work station.

Each SO-24A Service Observation Unit lets you access 24 stations (up to 240 with 10 units) or phone lines by dialing a two to four - digit code from any supervisory phone. Install additional SO-24A's for larger installations.

Station being monitored hears nothing; however, a supervisor can quickly enter the conversation by dialing a "\*". A cassette recorder output permits selective recording by simply dialing a "9". Alternatively, all monitored conversations may be recorded.

The SO-24A is a valuable management tool for training new staff and improving performance of current employees. **Power supply included**

Model	DOD #
SO-24A	690



Analog PABX, CO line  
or FXS port



## Professional Telecom Recording Kit



Recorder Audio Cable

Modular Line Cord

The PTR-1 allows you to record:

- 1) All conversations on a particular phone line.
- 2) Only conversations on your analog or digital telephone set.
- 3) Only selected conversations (using the recorder controls).

The PTR-1 is designed to work with standard digital or tape recorders with built-in VOX and ACG circuits.

Model	DOD #
PTR-1	438

## What is a beta site?

A beta site is where a customer allows our products to be tested in the field prior to being released for production. VIKING makes a practice of using beta sites to seek input on improvements in operations, installation or other design parameters. They are useful in ensuring that the product is of the best quality before full production. It allows the customer to be the first to try a new design or concept without waiting the usual pre-production lead-time of eight to twelve weeks. For more information regarding beta sites call the beta site coordinator at 715-386-8861.

**Q.** How do I qualify to participate as a beta site?

**A.** Qualifications include being willing to evaluate the product for at least thirty days and communicate with a VIKING technician regarding the application and performance of the unit. You must also be willing to accept that VIKING may need to make changes in hardware or software.

**Q.** When would VIKING not use a beta site?

**A.** Occasionally, on custom designs or software, or if the customer time frame is too short to permit a normal beta test. In that case the customer must take financial responsibility for problems or changes.

**Q.** Can I order beta units directly from VIKING?

**A.** Like all VIKING products, beta units must be ordered through our distributors.

**Q.** What if I decide to keep the product?

**A.** You are under no obligation to keep the product, but if you decide to do so, your distributor will bill you directly.

## Does Your New IP Phone System Need More Power for Ringing Legacy Equipment?

### Ring Shape Conditioner / Power Booster

- For applications behind IP and digital phone systems

Often IP phone systems, when used with Legacy phones, loud bells, strobes, etc. do not ring the older equipment loud enough or in some cases, operate them at all.

Designed for applications requiring higher ring voltage, higher ring power (up to 4 REN per line) or a sine wave (vs. square) ring signal. **Need to ring more phones?** The **RG-10A** (page 31) rings 12 or more phones per line.

Viking's 1-24 line ring shaper/boosters put the ring power back into your installation.



Any Viking Ring Booster



### 1-Line Wall Mounted Ring Shaper/Booster

- Power supply included

Model	DOD #
RG-4	416



### 4-Line Wall Mounted Ring Shaper/Booster

- Power supply included

Model	DOD #
RG-204	417

## 12 and 24-Line Ring Shape Conditioner / Power Booster



RG-212 and RG-224 Rear View

- RJ-21X "plug and play" install for CISCO VG224
- 19 inch rack mount
- Power supply(s) included

Model	No. Lines	DOD #
RG-212	12	419
RG-224	24	418

## Convert Loop Start Equipment to Operate on Ground Start CO Lines

- 12 Circuit Converter
- No Power Supply required

Model **GLS-12** is designed to allow up to 12 standard telephone sets, multi-line key systems and other loop start equipment to be connected to 2 wire ground start **CO** trunk lines. The **GLS-12** provides the **CO** with the signaling required to draw dial tone when the loop start equipment goes off hook. Incoming calls ring directly to the loop start devices.



Model	DOD #
GLS-12	570

## Receive Incoming Calls During Power or System Failure

- Operates on 24 to 48 Volt systems
- Improved automatic ground start converter for outbound calls.
- Loop or ground start

Continue to receive your calls, even if the phone system is down. **Viking's** bypass unit connects 6 standard single line station phones directly to the **CO** lines.

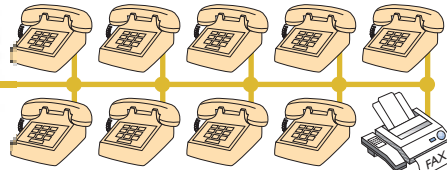
When the system is restored, calls in process will not be interrupted. **Viking's** bypass unit will reconnect the phones to their station circuit only after they become idle. **Power supply included.**

Model **PF-6A** operates when power is lost or on an alarm **contact closure.**

Model	DOD #
PF-6A	680

### Ring Booster Rings Twelve Additional Analog Phones

- Compatible with Caller ID
- Provides 90V AC Nominal



For use with Analog **PABX, CO** Line or **FXS** Port, **FAXJ-1000, C-1000B, DLE-200B, DLE-300, W-1000, W-2000A, W-3000** etc.

Up to twelve standard **1 REN** phones

Viking's Ring Booster increases ringing power to 12 **REN**. The **RG-10A** permits installation of up to 12 additional ringing phones or telecom devices on any analog **PABX, CO** line or **FXS** port, **FAX-JACK** type line sharing device, **W-1000/2000A/3000** doorboxes, or **DLE-200B** or **DLE-300** (Page 32) **ringdown circuits**.

The Ring Booster duplicates the incoming ring frequency and cadence. Compatible with **distinctive ringing**. **Power supply included**.

Model	DOD #
<b>RG-10A</b>	<b>420</b>

### Talk Battery Booster



Boost Talk Battery and Loop Current to Line Powered Devices

- Screw terminal connections for easy installation
- Boost talk battery to 48V
- Boost loop current to 26mA.
- Alarm panel compatible.

TBB-1B

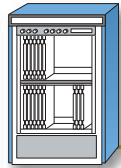
Improved Technology!

The **TBB-1B** will boost talk battery and loop current on single analog **PABX, CO** line or **VoIP ATA FXS** port. This is helpful for powering line powered devices, such as dialers and emergency phones on low voltage and/or loop current extensions and **X-10** wireless phone jacks. **Power supply included**.

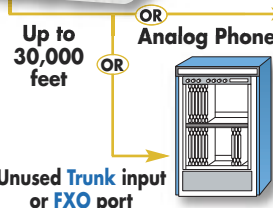
Model	DOD #
<b>TBB-1B</b>	<b>632</b>

### Long Loop Adapter - Extend PABX Station to 30,000 feet!

- Designed to Ring AVAYA IP Office Trunk Input



Analog **PABX, CO** Line or **FXS** Port



- Provides additional lightning and surge protection
- Provides 48VDC talk battery
- Provides 20Hz, 10 **REN** sine wave ringing
- DTMF and pulse dialing compatible
- Detects AC and DC ring signals
- Passes Caller ID
- Passes hook flash and **CPC**
- Electronically isolates **PABX** from extended loop
- **Replacement for Proctor 46222**

Model	DOD #
<b>LLA-1</b>	<b>615</b>

### Talk Battery and Ringing Power Supply

**NEW** 48V @ 150mA **Battery** and 90V 20Hz ringing. 10 **REN**. 120V 60Hz input. Typical applications include **KSUs** that require an external ring generator.



**Power supply included.**

Model	DOD #
<b>PS-48-RGA</b>	<b>515</b>

### Four Channel Long Loop Adapter

- 4 Line Version  
Direct replacement for Proctor model 46224



Model	DOD #
<b>LLA-4</b>	<b>620</b>

### Replacement Power Supplies

Model	DOD #
<b>PS-1A (13.8V AC)</b>	<b>510</b>
<b>PS-2 (12V DC)</b>	<b>510</b>
<b>PS-3 (15V AC)</b>	<b>510</b>

### Generate a CPC Disconnect

#### Applications:

- **Voice mail or call sequencers behind PABX**
- **ISDN, VoIP, T-1 channel bank lines**
- **C.O. lines that don't provide CPC**
- **VoIP FXS ports**

**CPC-1, CPC-4** provides a momentary (1 sec) break in the line current to signal telephone equipment the calling party has hung up. The **CPC-1, CPC-4** generates the disconnect signal after detecting busy, fast busy, return to dial tone (programmable) and silence (programmable). The status **LED** indicates call progress. The **CPC-1** and **CPC-4** are caller ID compatible. **Phone line powered.**



CPC-1 (1 Line Version)



CPC-4 (4 Line Version)

Model	DOD #
<b>CPC-1</b>	<b>442</b>
<b>CPC-4</b>	<b>444</b>

## Two-Way Ringdown Circuit

### Features

- 0.15 or 2 sec **CPC**
- Precise dial tone
- Standard or **distinctive ringing**
- 20 **Hz/2 REN** ring output
- Prison phone mode
- 4.75" x 2.75" x 1.38
- 32V **talk battery**

### Applications

- Demonstrate telecom gear
- Prison Phones
- Program alarm panels
- Test and repair
- Inter system communication
- Dialogic or rhetorex cards interface
- Golf course phones



**Power supply included.**

**Using Voice Mail, Dialogic Cards, or Dictaphone Equipment on Electronic Key**

The **DLE-200B** Line Simulator produces two-way communication between standard telecom products such as key systems, **PABXs**, fax machines, modems, dialogic cards and standard single line phones without the requirement for phone lines.

Model	DOD #
<b>DLE-200B</b>	<b>605</b>



Many electronic key systems will not support this equipment because proprietary key phones do not send **DTMF** on station-to-station calls.

### Prison Phone Application



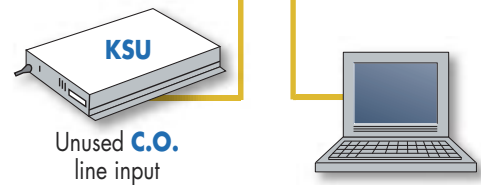
**K-1500-6A**

**K-1500-6A**

### Ringdown Applications between Phone or Phone Systems. Elevator or Emergency Phones (a UPS is recommended)



**E-1600A**



Unused **C.O.** line input

**Viking's E-1600A** Series and Models  
**E-10A, E-20B, E-30, E-40, E-50, E-60, E-70, E-75, K-1200, K-1500-EHFA, K-1500-6A, K-1500-7, K-1500-E** or standard phone

Max. loop length per port: 7,000 feet using 24 ga. twisted pair

## Advanced Two Way Ringdown Circuit Supports High Speed Data



**Power supply included.**

Max. loop length per port: 7,000 feet using 24 ga. twisted pair

Model	DOD #
<b>DLE-300</b>	<b>607</b>

- 911 mode for classroom training
- Produces precise dial tone, ringback, busy, reorder, and S.I.T. tones
- Touch tone detection or standard **Ringdown**
- Provides name and number caller ID
- Audio input/output jack for amplified speaker or loading voice mail systems.

The **DLE-300** simulates **loop start** phone lines and allows two-way communication between telecom devices or systems. It provides standard or **distinctive ringing** (6 **REN**) and 40 volts **talk battery**.

The **DLE-300** eliminates leasing phone lines for diagnostics testing or demonstrations. A **CPC** break is provided after hang up.





### Vandal Resistant Surface Mount Boxes

The VE-Series surface mount boxes are black powder painted or stainless steel. They are designed to surface mount to a single gang electrical box, a gooseneck pedestal or directly to a wall.

Compatible with these Viking products:

VE-3x5:	VE-5x5:	VE-6x7:	VE-5x10:
<ul style="list-style-type: none"> <li>• E-40</li> <li>• E-50</li> </ul>	<ul style="list-style-type: none"> <li>• E-10A</li> <li>• E-30/E-35</li> <li>• E-30-PT</li> <li>• E-60, 65, 70, 75</li> <li>• E-1600-20A</li> <li>• E-1600-30A</li> <li>• W-1000</li> <li>• W-3000</li> </ul>	<ul style="list-style-type: none"> <li>• K-1700-3</li> <li>• K-1705-3</li> </ul>	<ul style="list-style-type: none"> <li>• K-1200</li> <li>• K-1205</li> <li>• K-1500-7</li> <li>• K-1900-7</li> <li>• K-1900-8</li> </ul>



• SS Models built with 316 Marine Grade Stainless Steel

Model	Description	DOD #
<b>VE-3x5</b>	Black Surface Mount Box	<b>424</b>
<b>VE-5x5</b>	Black Surface Mount Box	<b>424</b>
<b>VE-6x7</b>	Black Surface Mount Box	<b>424</b>
<b>VE-5x10</b>	Black Surface Mount Box	<b>424</b>

Model	Description	DOD #
<b>VE-5x5-SS</b>	Stainless Steel Surface Mount Box	<b>424</b>
<b>VE-6x7-SS</b>	Stainless Steel Surface Mount Box	<b>424</b>
<b>VE-5x10-SS</b>	Stainless Steel Surface Mount Box	<b>424</b>

### Surface Mount Boxes with Panels

Viking's **VE-PNL**'s are the perfect solution to the problem of mounting a switch, keypad or card reader to the outside of a building. Built from black powder painted steel or stainless steel, the back box provides a durable enclosure suitable for most outdoor applications. The blank front panel is made from aluminum, making it easy to drill, cut or form for the required mounting arrangement. The panel is straight lined and coated with a tough clear powder coating to resist corrosion. Four screws and a gasket are included to make installation a snap.

• SS Models built with 316 Marine Grade Stainless Steel



Model	Description	DOD #
<b>VE-5x5-PNL</b>	Black Box with Panel	<b>424</b>
<b>VE-6x7-PNL</b>	Black Box with Panel	<b>424</b>
<b>VE-5x10-PNL</b>	Black Box with Panel	<b>424</b>

Model	Description	DOD #
<b>VE-5x5-PNL-SS</b>	Stainless Steel Box with Panel	<b>424</b>
<b>VE-6x7-PNL-SS</b>	Stainless Steel Box with Panel	<b>424</b>
<b>VE-5x10-PNL-SS</b>	Stainless Steel Box with Panel	<b>424</b>

### Illuminate Your Door or Emergency Phone

The **VE-Light kit** adds bright **LED** illumination to any doorbox or entry phone that is housed in a **Viking VE-5x5, VE-6x7** or **E-1600A-BLT-EWP** surface mount box. The stainless steel bracket is easily mounted using existing holes and hardware.

VE-LIGHT shown alone below and in conjunction with the E-30 and VE-5x5 right



Model	DOD #
<b>VE-LIGHT</b>	<b>428</b>

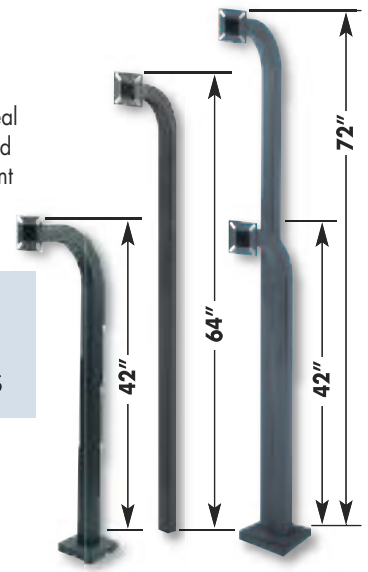
### Gooseneck Pedestals

The gooseneck pedestals are designed to be used with select Viking VE-Series surface mount boxes or **VE-PNL** surface mount panels. Ideal for drive up communications, the gooseneck pedestals are constructed of heavy duty black powder painted steel or stainless steel. Pad mount to a floor or concrete with 4 available bolt holes or use the **VE-GNP-IG** to mount in ground or wet cement.

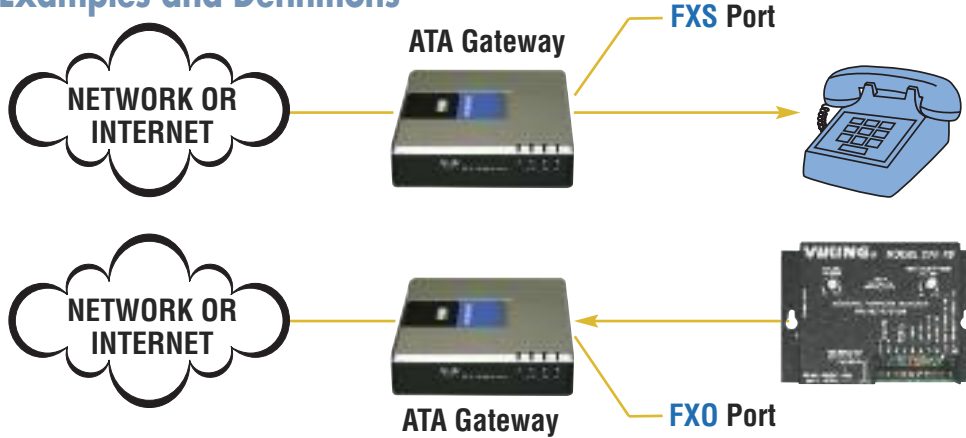
Compatible with the following Viking products:

- VE-5x5
- VE-5x5-SS
- VE-5x5-PNL
- VE-5x5-PNL-SS
- VE-6x7
- VE-6x7-SS
- VE-6x7-PNL
- VE-6x7-PNL-SS
- VE-5x10
- VE-5x10-SS
- VE-5x10-PNL
- VE-5x10-PNL-SS

Model	Description	DOD #
<b>VE-GNP</b>	42" Pad Mount Pedestal	<b>424</b>
<b>VE-GNP-SS</b>	42" Stainless Steel Pedestal	<b>424</b>
<b>VE-GNP-IG</b>	64" In-Ground Pedestal	<b>424</b>
<b>VE-GNP-2</b>	72" Double Pedestal	<b>424</b>



## Examples and Definitions



### Definitions:

**FXS Port:** Provides talk battery, dial tone and ring voltage for an analog telecom device, such as a telephone or fax machine.

**FXO Port:** Receives talk battery, dial tone and ring voltage from an analog telephone line, **PABX** station or **FXS** port.

## Compatible Gateway Equipment

### LinkSys: FXS/FXO Audio Only

LinkSys manufactures audio ATA equipment that operates with analog telephones, fax, voicemail, entry phones and many paging amplifiers. Model **SPA3102** is shown. The unit encodes the audio for transmission across an IP network or the internet where it can be accessed from any location on the network.



**SPA3102**

For more information, go to [www.voipdw.com](http://www.voipdw.com), [www.ipphone-warehouse.com](http://www.ipphone-warehouse.com), [www.amazon.com](http://www.amazon.com), [www.officedepot.com](http://www.officedepot.com)

### Axis: Video Only

Axis manufactures video servers that encode analog video signal for transmission across an IP network or the internet. The single-channel model **M7001** 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.



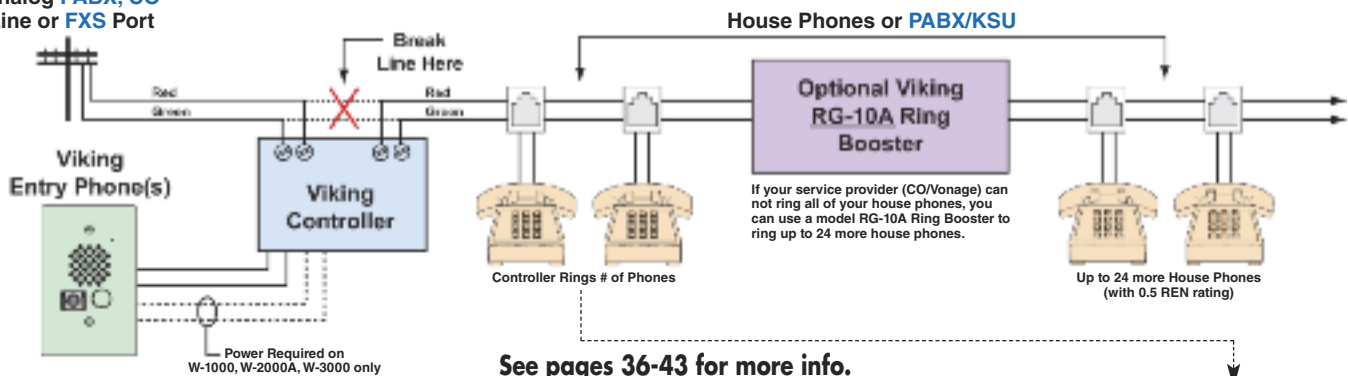
**M7001**

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

## How to Connect a Viking Door/Gate Entry System to Existing Phones/Phone System

When line sharing is not required (if connected directly to an **FXS**, Key or **PABX Analog Station** or **Trunk**) us **SRC-1** (page 40) for door strike or gate control.

### Analog PABX, CO Line or FXS Port



See pages 36-43 for more info.

Entry Phones / Doorboxes	Use Controller	Maximum # Door Phones	Maximum # Doorstrikes	Entry Phone Caller ID	Keyless Entry	Postal Lock Input	Controller Rings # of 0.5 REN House Phones
E-10A, E-20B, E-30, E-35*, E-40, E-50*, E-60, E-65*, E-70, E-75* (Page 42, 43)	C-200 (Page 41)	1	0	No	No	No	7
E-10A, E-20B, E-30, E-35*, E-40, E-50*, E-60, E-65*, E-70, E-75* (Page 42, 43)	C-250 (Page 41)	1	1	No	No	Yes	10
E-10A, E-20B, E-30, E-35*, E-40, E-50*, E-60, E-65*, E-70, E-75* (Page 42, 43)	C-2000B (Page 41)	4	4	Yes	No	Yes	16
K-1700-3, K-1705* K-1900-8 (Pages 11, 37)	C-2000B (Page 41)	4	4	Yes	Yes	Yes	16
W-1000, W-2000A, W-3000, W-3005* (Page 36)	C-1000B (Page 36)	2**	2**	No	No	Yes	6

\* Includes a built-in CCTV color camera, which requires additional wiring.

\*\*Up to (4) entry phones and (4) door strikes can be accommodated by using (2) C-1000B controllers. For more info: **DOD# 881**.



### Handsfree Video Speaker Phone - Model E-35



- See **E-30** for complete specifications on page 7
- Shown in optional **VE-5x5** surface mount box (Page 33)

**!** When installing E Series door entry phones outdoors, always use the EWP version - See page 9

Model	Description	DOD #
<b>E-35</b>	Video Speaker Phone	<b>178</b>
<b>E-35-EWP</b>	<b>EWP Version</b>	<b>178</b>

### Video Entry Phones - Model E-50



- See **E-40** for complete specifications on page 42

**!** When installing E Series door entry phones outdoors, always use the EWP version - See page 9

Model	Description	DOD #
<b>E-50-SS</b>	Video Speaker Phone	<b>191</b>
<b>E-50-BN, PB, BK, WH</b>	Video Speaker Phone	<b>191</b>
<b>E-50-SS-EWP</b>	<b>EWP Version</b>	<b>191</b>
<b>E-50-BN, PB, BK, WH-EWP</b>	<b>EWP Version</b>	<b>191</b>

### Accessible Video Entry System - Model AES-2005



- See **AES-2000** for complete specifications on page 39
- Available in flush or surface mount styles

Model	Description	DOD #
<b>AES-2005F</b>	Flush mount AES-2005	<b>204</b>
<b>AES-2005S</b>	Surface mount AES-2005	<b>204</b>

### 12-Button Video Entry Phone - Model K-1205



- See **K-1200** for complete specifications on page 37
- Shown in optional **VE-5x10-SS** surface mount box (Page 33)

**!** When installing K Series phones outdoors, always use the EWP version - See page 9

Model	Description	DOD #
<b>K-1205</b>	Multi-Button Entry Phone	<b>183</b>
<b>K-1205-EWP</b>	<b>EWP Version</b>	<b>183</b>

### Video Entry Phone with Keypad - Model K-1705-3



- See **K-1700-3** for complete specifications on page 37
- Shown in optional **VE-6x7** surface mount box (page 33)

**!** When installing K Series phones outdoors, always use the EWP version - See page 9

Model	Description	DOD #
<b>K-1705-3</b>	Video Entry Phone	<b>159</b>
<b>K-1705-3-EWP</b>	<b>EWP Version</b>	<b>159</b>
<b>K-1705-3-BN</b>	Bronze Video Entry Phone	<b>159</b>
<b>K-1705-3-BN-EWP</b>	Bronze <b>EWP Version</b>	<b>159</b>

### Handsfree Video Doorbox - Model W-3005



- See **W-3000** for complete specifications on page 36
- Shown in optional **VE-5x5** surface mount box (page 33)

**!** When installing W Series doorboxes outdoors, always use the EWP version - See page 9

Model	Description	DOD #
<b>W-3005</b>	Video Doorbox	<b>181</b>
<b>W-3005-EWP</b>	<b>EWP Version</b>	<b>181</b>

Double Gang Handsfree Video Entry Phones  
Model E-65 series (see page 43)

Double Gang Video Entry Phones with  
Proximity Card Reader  
Model E-75 series (see page 43)

### Compact Color Video Camera Kit



- Stainless steel mounting hardware
- Potted circuit board
- 5V DC adapter/wire connections
- Tilt and swivel adjustment

IR illuminator compatible when using model **VCAM-11R**.

Model	DOD #
<b>VCAM-1</b>	<b>190</b>
<b>VCAM-11R</b>	<b>190</b>

- Color composite video output for versatility: 1V p-p composite, NTSC, 75 ohms
- Extreme temperature rating: -40° to 185°F
- Wide 70° viewing angle
- Tilt/Swivel adjustment: vertical +/- 20°, horizontal +/- 30°
- Resolution: 420 lines (640 x 480 / 307,200 pixels)
- Sensitivity: 0.26 LUX (20 IRE) F2.0
- Lens: 3.4mm, pinhole 70° FOV
- Maximum wire run length: 150 ft on **CAT5E** for video and power, 1000 ft with RG59/RG6 for video and **CAT5** for power (doubled pairs).

To integrate your video entry phones with your home TV sets!

Check out DOD# 886

### High Resolution Color Video Camera Mounts in a Single Gang Box

**NEW**

The compact, high resolution, color composite video output provides versatility and a wide 70° viewing angle. The tilt and swivel adjustment permits optimum alignment. The -40° to 185° F temperature rating and **Enhanced Weather Protection** allow exposed outdoor installation. **Power supply included.**



Model	Description	DOD#
<b>VCAM-2-SS</b>	Brushed Stainless Steel	<b>190</b>
<b>VCAM-2-BN</b>	Oil Rubbed Bronze	<b>190</b>

## Handsfree Doorboxes

**⚠ When installing W Series doorboxes outdoors, always use the EWP version - See page 9**

- Provides 24 volt talk battery and 20 Hz ring generator for phone system unused Trunk input or FXO port applications.

Provide your business or residential customers with the security and convenience of conversing with visitors from their own phone prior to allowing entry. Ideal for night doors, shipping/receiving departments, warehouses, residential applications or any security-sensitive entry. Designed to install on an unused Trunk input or FXO port. When the "Call" button is pressed, the unit rings the phones up to 30 times (adjustable) or until answered. Microphone volume adjustment is also provided.

Permits loop lengths of up to 6300 ft., using 24 AWG twisted pair. The **power supply included** can be mounted up to 150 ft. from the unit using 24 AWG twisted pair. The units provide 3 REN output (enough to ring six .5 REN phones). To ring additional phones use model RG-10A Ring Booster. (Page 31)

Model	DOD #
W-1000	170
W-2000A	170
W-3000	180
W-3005	181
VE-5x5	424

These units are compatible with C-1000B (below) and SRC-1 (Page 40) controllers.

- These units are now designed to ring AVAYA IP Office, NEC 2000 and Electra Pro 2, INTERTEL 5000, and VODAVI DHS.

W-3000 is a vandal resistant 5" x 5" brushed 14 Ga. stainless steel flush mount unit. LED indicates switch location and call progress. Can generate **distinctive ringing**. An electrical mounting box is supplied. Can provide a push to talk option for noisy locations

Illuminate your W-1000/W-3000 mounted in a VE-5x5 - Model VE-LIGHT (Page 33) W-3005 Video Doorbox Now available - see page 35 for camera specifications.



**W-3000**  
W-3000 shown in optional VE-5x5 surface mount box. (Page 33)

W-2000A is a surface mount unit in a durable plastic case. The 4.5" x 5.5" x 1.5" unit can mount on a single gang electrical box. Provides standard ringing. **Improved sound quality.**



**W-2000A**

W-1000 is a 5" x 5" vandal-resistant black powder painted aluminum flush mount unit. Provides standard ringing. An electrical mounting box is supplied. **Improved sound quality.**



**VE-5x5** Surface mount box for W-1000, W-3000 (Page 33)



**W-1000**

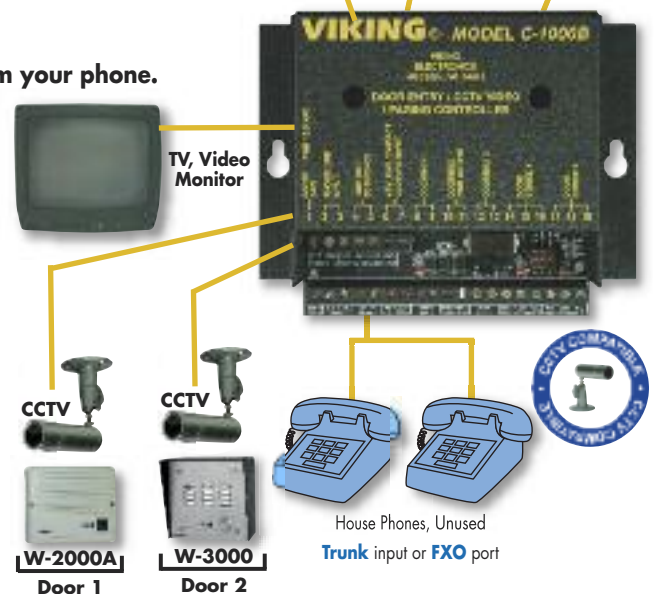
## Universal Door Entry System for Key, PABX, or Single Line Phones

### Now Controls Two CCTV Cameras

- Share an existing phone line with two Viking doorboxes
- Operates 2 door strikes or gate openers • Monitor doors from your phone.

Now you can add Viking doorboxes to any system, even Centrex or those with just single line phones! The C-1000B shares an existing phone line with 2 door speaker units, but does not interfere with normal phone operation. In-process calls can be placed on hold while using the door speakers. The C-1000B has 5 amp contacts for operating 2 door strikes or gate openers from a Touch Tone or rotary phone. Tones confirm relay action. **Power supply included.**

- Auxiliary relay provides maintained or programmable .5 to 10 second relay contacts for activating a doorbell, light, etc.
- Provides power output for up to 2 doorboxes (only one power supply needed per system)
- Provides unique front and back chimes plus whole house paging when used with SLP-1 (Page 16), SLP-4 (Page 20)
- Add proximity card or keyless entry with Viking Model ES-1 and PROX-1 or PROX-2 (Page 38)
- Built-in Talk Battery for "no C.O. line" applications
- Programmable (.5 to 10 sec) momentary or continuous relay contacts for controlling door strikes or gate openers
- Can provide custom ring from door box
- Postal lock input for activating door strike 1



Expand your existing C-1000B Door Entry System to 3 or 4 Doorboxes Application DOD# 881

Model	DOD #
C-1000B	168



### Directories for Apartment Entry Systems



Viking's vandal-resistant directories are an easily installed, high-quality 18 gauge brushed stainless steel display. Designed specifically to complement newly installed or existing

secure building entry systems. All models feature both weather and vandal resistant construction. The visitor looks up the apartment's one to three digit code then dials it on the Touch Tone phone. Name card not included.

Model	DOD #
D6	158
D10	158
D22	158
D32	158
D44	158
D56	158

### Apartment/Office Door Entry 250 Number Dialer



- Now provides a different keyless entry code for each apartment or office.
- "Buzz" the visitors in from your phone
- Non-volatile E<sup>2</sup> memory (no batteries required)

- Output for external data logging.
- Compatible with Viking's vandal-resistant K-1700-3, K-1900-8 or any Touch Tone phone.
- Also provides 5 additional keyless entry codes for management, maintenance, etc.

Model K-1900-3 allows the visitor to enter 1 to 3 digits on a Touch Tone phone located in the entry way. The K-1900-3 then dials the associated apartment. After conversing with the visitor, the tenant can "Buzz" them in by dialing a 1 or 2 digit code on their Touch Tone phone. An adjustable timed relay closure is provided for gate openers or door strikes. DPDT 5 amp contact closures are provided.

The K-1900-3 can be programmed remotely or locally using a Touch Tone phone. Each position stores up to 16 digits, except position "000 and 001", which can hold up to 32 digits and pauses for applications such as calling the facility manager's pager. A keyless entry feature using a 4 to 6 digit code can be used. Inputs for a postal lock are provided. The K-1900-3 will allow 911 and 311 emergency calls. **Power supply included.**

Model	Description	DOD #
K-1900-3	Apartment/Office Door Entry	312

### 12 Button Apartment Entry Phone with Built in Door Strike Relay



K-1205 shown in optional VE-5x10-SS surface mount box (page 33)

- Calling a tenant is as easy as pressing a single button
- 50 Keyless Entry Codes

The K-1200 Entry Phone is a two way, hands free telephone with 12 buttons for calling individual residences in an apartment building.

The rugged stainless steel faceplate has a printed directory housed in a water proof plastic lens. Each button is beside the tenant's name in the directory, so there are no confusing codes to deal with. The K-1200 has a built in speed dialer that can handle up to 12 primary phone numbers, each with 22 digits. If there is no answer at the first number, a second number such as a

tenant's cell phone, can be called automatically. Once the tenant answers their phone, a single touch tone command can activate the built in door strike relay. **Power supply included.** • K-1205 Video Entry Phone - see page 35 for camera specifications.

**When installing K Series phones outdoors, always use the EWP version - See page 9**

Model	Description	DOD #
K-1200	Apartment Entry	182
K-1205	Video Entry Phone	183

### Vandal Resistant Handsfree Speaker Phone with Keypad

**When installing K Series phones outdoors, always use the EWP version - See page 9**



K-1700-3-BN shown in oil rubbed bronze finish

- 14 Gauge Stainless Steel or Oil Rubbed Bronze (BN) Faceplate
- Metal Call Button and Keypad
- Analog PABX, CO Line or FXS Port Powered
- Use with C-2000B for Keyless Door Entry (Page 41)

The K-1700-3 is an attractive, handsfree telephone designed especially for apartment and door entry applications.

When the "Call" button is pressed, the K-1700-3 returns dial tone. The keypad can then be used to call any number. The unit disconnects on busy, return to dial tone, CPC, silence or call timer. Volume adjustments are provided for microphone and speaker. Yellow LED indicates an "off hook" condition.

Illuminate your entry phone - Model VE-LIGHT (Page 33)

### Handsfree Video Speaker Phone with Keypad

For Camera specifications see page 35. **Power supply included.**

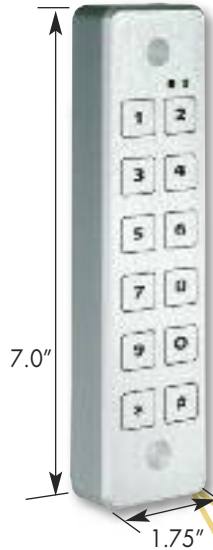


K-1705-3 shown in optional VE-6x7 Surface Mount Box (Page 33)

Model	Description	DOD #
K-1700-3	S.S. Entry Phone	157
K-1705-3	S.S. Video Entry Phone	159
K-1700-3-BN	Oil Rubbed Bronze Entry Phone	157
K-1705-3-BN	Oil Rubbed Bronze Video Entry Phone	159

## Wiegand Keypad

Slender aluminum housing for mullion mounting. Pigtail leads. Beeper and **LEDs** show status. **26 bit Wiegand** interface. Potted **pcb**.



Model	DOD #
HID-2	199

## Compact 16" Range Proximity Card Reader **NEW**



Model **PROX-3** permits reading standard Proximity cards up to 16 inches from the reader. It is ideal for parking control, gate access, turnstiles, or any application requiring a longer read range. The **PROX-3** provides data in the standard **26-bit Wiegand** format.

The unit is equipped with **Enhanced Weather Protection (EWP)** for outdoor installations. Install alone or with Viking Door Entry phones on **VE-GNP** pedestals.

Model	DOD #
PROX-3	228

## Proximity Key Fob **NEW**

- Attach to a key chain or neckband
- Compact size 1.5 x 1.2 x 0.15 inches
- Durable - it can withstand the washing machine
- Read up to 2" with **PROX-1** or 8" with **PROX-3**
- **No minimum quantities**

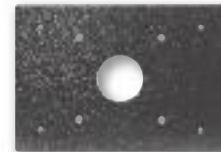


Model	DOD #
PROXFOB	198

## Mounting Kits for VE-GNP Pedestals

**PROX-3-MK-GNP** for mounting **PROX-3** Alone

**PROX-3-MK-VEGNP** for Mounting **PROX-3** Plus a **VE-5x5**, **VE-6x7**, or **VE-5x10**



**PROX-3** shown with **VE-GNP** pedestal, **PROX-3-MK-VEGNP** mounting kit and **K-1700-3** with **VE-6x7**

Model	DOD #
PROX-3-MK-GNP	229
PROX-3-MK-VEGNP	229



## Keypad with Prox Card Reader

Model **PROX-2** is fully potted, has blue back lighting and mounts directly to a standard single gang box. The card reader and keypad transmits **26-bit Wiegand** format. Black and off-white covers provided.

Model	DOD #
PROX-2	219

## Proximity Card **NEW**

- No magnetic strip to wear out - no batteries
- Credit card size, neckband slot on **PROXCARD**
- New thinner, more flexible **PROXCARD-ISO**
- Also see **C-4000** (Page 40)
- **No minimum quantities**

Model	DOD #
PROXCARD	198
PROXCARD-ISO	198



## Proximity Card Reader

- Standard **26 bit Wiegand** interface
- Potted **pcb** enclosure with pigtail connection for indoor and outdoor applications. Black & white covers provided.

Model	DOD #
PROX-1	221

## Wiegand Card Reader/Keypad Entry System for 1 Door - 250 Users

Stand-alone keyless entry system can be programmed with a touch-tone phone. An output for data logging is provided. **Power supply included.**



Model	DOD #
ES-1	193

## Add Up To 32 Access Entry Points To Viking's Accessible Entry System

Up to 32 additional points of entry may be added to Viking's model **AES-2000** Accessible Entry System. One **ES-3**, one Wiegand device and a door strike or magnetic lock of your choice is required for each additional entry point.



Model	DOD #
ES-3	195

### Accessible Entry System

Usable by people with sensory and physical impairments

The **VIKING** Accessible Entry System is a Hands-Free phone with a built in auto-dialer, which will allow access to apartment/office buildings by using existing public telephone lines. In order to assist people of varying abilities, the "directory" is displayed on a **LCD** as well as an audible announcement. The system is housed behind a stainless steel panel with a keypad and control buttons. An analog telephone line and low voltage wiring must be available for operation.

**Data logging via the PB-100** (Page 25). **Power supply included.**

**Features:**

- Digital announcer set from factory for 75 names. Additional names may be added by using **ERAM-4M** expansion kits. (75 names per kit for up to 525 names).
- Non-Volatile memory
- Door strike contacts
- Postal lock input
- Remote recording and programming
- Designed to help meet **ADA** requirements

**Applications:**

- Apartment/Office Buildings
- Assisted Living Residences
- Senior Complexes
- Nursing Homes
- Hospitals
- Public Housing

• Available with video. (See page 35 for camera specifications)

Panel size: Brushed 12 Gauge Stainless 12 in. x 9.5 In.

Back-Lit LCD Alpha Numeric Display

**\*PB-100 required for programming.** (Page 25)

Optional Braille Label  
EZ™ Help Audio/Visual Operating Instructions

Panel Lock

Black surface mount box included with AES-2000S



Call/Hang-up Button

Metal Keypad

TTY Jack

Directory Buttons (4)

Digital Announcer/ Speaker Phone

Speaker Volume Control



**AES-2000F Flush Mount** (Mounting bezel and back box included)

Model	Description	DOD #
<b>AES-2000S</b>	Surface Mount	<b>202</b>
<b>AES-2000F</b>	Flush Mount	<b>202</b>
<b>AES-2005S</b>	Video Phone	<b>204</b>
<b>AES-2005F</b>	Video Phone	<b>204</b>
<b>ERAM-4M</b>	Expansion Memory	<b>854</b>

EZ Help/Access is a trademark of the Wisconsin Alumni Research Foundation. For more information click on [www.trace.wisc.edu](http://www.trace.wisc.edu)

### Network Enabled Relay Controller

- **Control 4 relays across a network**
- **Monitor the status of 4 sensors at the remote location**

**Applications**

**Remote control of**

- Secure building entry
- Heating/cooling equipment
- Pumps, fans and lighting
- Security system
- Gates
- Emergency tones

**Remote sensing of**

- Temperature sensor
- Door entry sensor
- Light sensor
- Alarm contact closure
- Sound level threshold

Relays can be toggled on or off, or user-programmed timed closures of from 1 to 99 seconds can be activated. **N.O/N.C** relay contacts rated at 5 Amps @30VDC/250VAC, can connect directly to most applications.

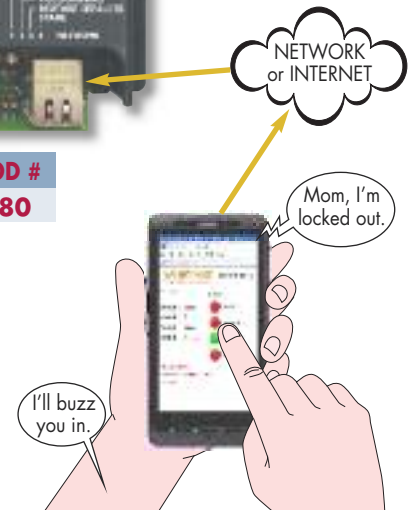
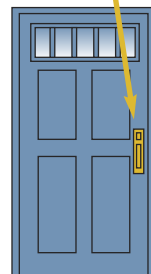
The ready-to-use webpage control interface features password protection with two levels of security. Administrative users have full programming rights, while guests are limited to basic functional control.

Installation is simple on any **DHCP**-capable network, with a free downloadable discovery tool for network setup. The **RC-4** can also be assigned a static IP address if you prefer. Network and functional parameters are fully programmable on separate programming pages.



**NEW**

Model	DOD #
<b>RC-4</b>	<b>580</b>



## Secure Remote DTMF Controller



- Secure Control of Building Entry Systems
- Provides 32 Keyless Entry Codes

The **SRC-1** enables a standard touch tone phone to securely operate a set of timed relay contacts to control a door strike or gate controller from a remote location. The **SRC-1** is fully user programmable and uses non-volatile memory. The **SRC-1** eliminates the possibility of dialing the activation code through the entry phone using a hand held touch tone dialer.

The **SRC-1** features switchable 32 volt **talk battery** to allow use with any of Viking's **E Series**, **W Series** or **K Series** entry phones. A postal lock input is provided. **Power supply included.**

Model	Description	DOD #
<b>SRC-1</b>	Secure Remote Control	<b>176</b>

## No C.O. Line Entry System for 12 Apartments/Offices



- Functions with or without tenant C.O. lines
- Expands to 96 apartments by adding more C-3000's (each C-3000 adds 12 additional apartments)

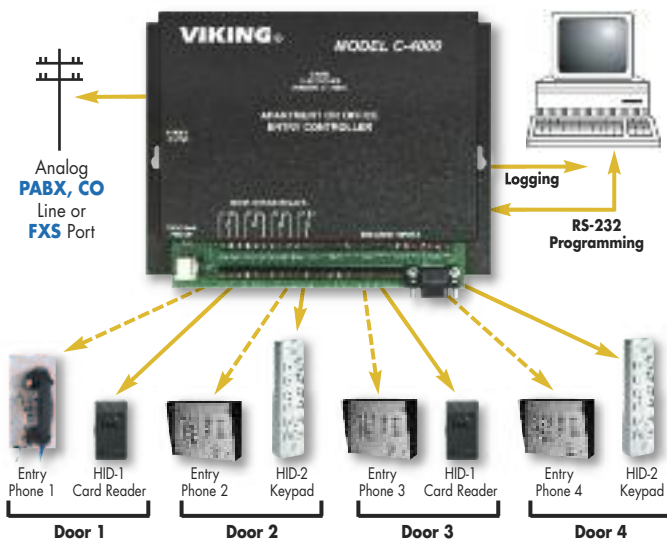
Eliminates the monthly expense of an entry phone line and **CO** "call waiting" feature on tenants lines. Connect a front and rear touch tone entry phone. The **C-3000** rings the tenant's phone or provides call waiting tones. The tenant can "Buzz" the visitor in from their touch tone phone via the front and rear door strike contacts. **Power supply included.**

- Compatible with:
- AES-2000
  - AES-2005
  - K-1200
  - K-1205
  - K-1700-3
  - K-1705-3
  - K-1900-8
  - Any Touch Tone Phone

Model	Description	DOD #
<b>C-3000</b>	No C.O. Line Entry System	<b>162</b>

## 4 Door Keyless or Prox Card Entry System - For Up To 250 Tenants

- Requires an analog **PABX, CO** line or **FXS** port to call tenants
- Supports 4 Wiegand keypad or card readers
- **RS-232** port for programming
- Output for external logging
- "Buzz" visitors in from tenants phone - **N.O.** & **N.C.** contacts
- Program dialer locally or remotely
- Provides toll restriction - allows 911 and 311 calls
- **Power Supply Included.**

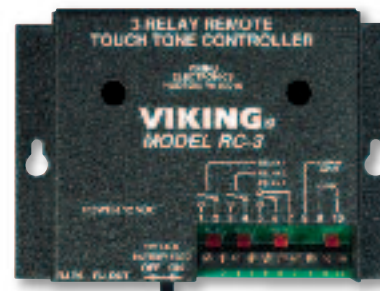


Model	Description	DOD #
<b>C-4000</b>	4 Door Keyless or Prox Card Entry System	<b>164</b>

## Remote DTMF Controllers - Controls Door Strikes and Gate Openers From a Touch Tone Phone



**Model RC-2A - single output**



**Model RC-3 - three outputs**

Designed for use with **E, K** or **W Series** Emergency phones or as a stand-alone "Dial-up" remote Touch Tone controller. These units can operate door strikes, gate openers, or control equipment at a remote location. The **RC-2A** and **RC-3** can answer a ringing line. Three **RC-3**'s can be connected to the same line for 9 outputs. Tones confirm relay action. Either unit can be set up to operate with or without security codes. **Power supply included.**

Model	Description	DOD #
<b>RC-2A</b>	1 Output Unit	<b>160</b>
<b>RC-3</b>	3 Output Unit	<b>165</b>



### Add a Viking Entry Phone to Existing Phones or Phone System

- **Allows Your House Phones or Phone System to Share a Phone Line with one Viking Entry Phone**

The **Model C-200** allows a single line telephone or a telephone system to share a phone line with a single **Viking** Entry phone. When a visitor presses the call button on the entry phone, the resident's phone rings. The resident can now answer and converse with the visitor prior to manually allowing entry. If you are on a call, the **C-200** provides a "Call Waiting" tone. The resident can "hook flash" which puts the call on hold while he converses with the visitor.

Residents may call out to the entry phone for monitoring purposes. Auxiliary contacts are provided to operate a doorbell, or activate a camera, lights, etc.

If additional features (such as door strike, multiple entry phones with caller ID, and keyless entry) are needed, use the **Viking C-2000B** below.

**Power supply included.**

Compatible with Viking:

- E Series Entry Phones
- K Series Entry Phones
- Any analog Phone



Model	Description	DOD #
<b>C-200</b>	Entry Phone Interface	<b>169</b>

### Single Entry Phone Controller With Call Forwarding and Door Strike Control

- **In the event you're not home it will call your cell phone plus 4 other numbers**
- **5 amp door strike or gate opener contact**
- **Built in 5 number 1- 20 digit dialer**
- **Immediate call forward to your cell phone mode**
- **No CO mode**

The **C-250** allows single line phones or a phone system to share a phone line with a **Viking E or K Series** entry phone. When the entry phone initiates a call, the **C-250** provides a double ring. If you are on a call the controller provides call waiting tones. You can place the existing call on hold, talk to the visitor, then return to the original caller. Buzz the visitor in with a 1 or 2 digit touch tone command.

The **C-250** allows tenants to monitor the entry phone and has a postal lock input.

**Power supply included.**

Compatible with Viking:

- E Series Entry Phones
- K Series Entry Phones
- Touch Tone Phones



Model	Description	DOD #
<b>C-250</b>	Entry Controller	<b>172</b>

### Advanced Door/Gate and Entry Phone Controller for up to 4 Entrance Locations

- **Now with Analog Station Dial-Thru Mode for Apartment/Office Entry Applications**
- **Provides 6 different keyless entry codes per door and 6 master codes (use at any door). Codes can be set up as permanent or "1 time" use.**
- **Provides 4 unique CD quality door chimes plus whole house paging when used with the SLP-4 (page 20)**

Answer and open up to 4 doors or gates from your nearest phone. The **C-2000B** can provide a double ring and/or caller ID to indicate which entry phone is calling. If you are on a call the controller provides call waiting tones and caller ID. You can place the existing call on hold, talk to the visitor, then return to the original caller.

A lighted Doorbell switch can be located near entry phone #1 to also initiate an entry phone call. The **C-2000B** requires a pair of wires (up to 5000 feet) for voice communications. A second pair of wires is needed to operate the door strike or gate opener. The unit can ring up to 10 existing phones. Programmable "Privacy Number", eliminates prank calls.

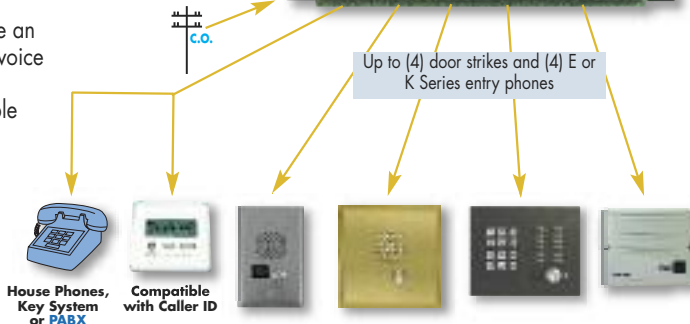
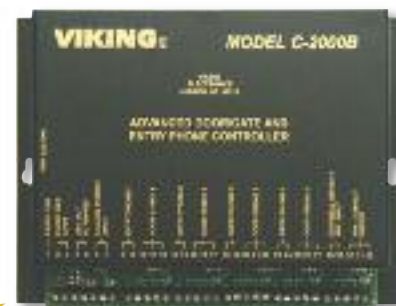
The **C-2000B** allows the user to monitor any entry phone with auto answer capability.

Add proximity card entry with Viking Model **ES-1** and **PROX-1** (Page 38).

**Power supply included.**

Compatible with Viking:

- E Series Entry Phones
- K Series Entry Phones
- Touch Tone Phones



Model	Description	DOD #
<b>C-2000B</b>	Advanced Entry Controller	<b>156</b>

## Compact Handsfree Entry Phones Mount in Single Gang Box



**⚠ When installing E Series door entry phones outdoors, always use the EWP version - See page 9**

Model	Description	DOD #
<b>E-40-SS</b>	Stainless Steel Entry Phone	<b>187</b>
<b>E-40-BN</b>	Oil Rubbed Bronze Entry Phone	<b>187</b>
<b>E-40-PB</b>	Polished Brass Entry Phone	<b>187</b>
<b>E-40-WH</b>	Satin White Entry Phone	<b>187</b>
<b>E-40-BK</b>	Satin Black Entry Phone	<b>187</b>

- Analog **PABX, CO** Line or **FXS** Port Powered Door Entry Phones with Consumer Styling - Commercial Quality

2 wire installation – Analog **PABX, CO** or **FXS** powered. Blue **LED** continually provides light for locating the push button in dark locations.

Extended temperature range (-30°F to 150°F) - vandal resistant.

Compact size for flush mounting in a single gang box (with minimum inside dimensions of: 2"W x 2.84"H x 2.25"D)

Dimensions: 3.12"W x 4.87"H x 1.7"D

Auto answer feature for monitoring

Auto disconnect on **CPC**, busy, dial tone, or silence

**VE-3x5** surface mount box available (Page 33)

E Series Compatible with these Controllers

- C-200 (Page 41)
- C-2000B (Page 41)
- C-250 (Page 41)
- SRC-1 (Page 40)

## Single Gang Handsfree Video Entry Phones

- Built in color composite video camera with 420 lines of resolution wide 70° viewing angle.
- Audio and video transmission on one **CAT5E** cable (150 ft. max video)
- Extended temperature (-30°F to 150°F)
- Same entry phone operating specifications as E-40 (above)
- Surface mount box available for E-50, model **VE-3x5** (see page 33)

**⚠ When installing E Series door entry phones outdoors, always use the EWP version - See page 9**

Model	Description	DOD #
<b>E-50-SS</b>	Stainless Steel Video Phone	<b>191</b>
<b>E-50-BN</b>	Oil Rubbed Bronze Video Phone	<b>191</b>
<b>E-50-PB</b>	Polished Brass Video Phone	<b>191</b>
<b>E-50-WH</b>	Satin White Video Phone	<b>191</b>
<b>E-50-BK</b>	Satin Black Video Phone	<b>191</b>

**E-50** Series available in the same attractive finishes as **E-40** (above).

Tilt and swivel adjustments to achieve the perfect camera angle. **Refer to page 35 for camera specifications.**



**E-50-PB**

**Camera power supply included**

E Series Compatible with these Controllers

- C-200 (Page 41)
- C-2000B (Page 41)
- C-250 (Page 41)
- SRC-1 (Page 40)



**E-10A**  
5"x5" flush mount



**E-20B**  
4"x5.25" surface mount

## Hands Free Door Entry Phone

- Intelligent auto disconnect on **CPC**, busy, dial tone, silence.
- **VE-5x5** surface mount box available for the **E-10** (see page 33)

**See page 14 for complete specifications**

Handsfree models **E-10A** and **E-20B** go off hook on the phone line when the button is pressed, the units auto disconnect on **CPC**, busy, dial tone or silence. The **E-10A** and **E-20B** will auto answer on an incoming call.

**⚠ When installing E Series door entry phones outdoors, always use the EWP version - See page 9**

Model	Description	DOD #
<b>E-10A</b>	Flush Mount Entry Phone	<b>210</b>
<b>E-20B</b>	Surface Mount Entry Phone	<b>210</b>

### Handsfree Entry Phones Mount in Double Gang Box

- 2 wire installation – Analog **PABX, CO** Line or **FXS** Port Powered
- E-60's blue **LED** continually provides light for locating the push button in dark locations
- Same operating specifications as **E-40** (see page 42)
- Surface mount box available for **E-60**, model **VE-5x5** (see page 33)
- Dimensions: 4.99"W x 4.87"H x 1.7"D

Model	Description	DOD #
<b>E-60-SS</b>	Stainless Steel Entry Phone	<b>206</b>
<b>E-60-BN</b>	Oil Rubbed Bronze Entry Phone	<b>206</b>
<b>E-60-PB</b>	Polished Brass Entry Phone	<b>206</b>
<b>E-60-WH</b>	Satin White Entry Phone	<b>206</b>
<b>E-60-BK</b>	Satin Black Entry Phone	<b>206</b>



**E-60-BN**

**E-60, 65, 70, 75**  
Series available in the same attractive finishes as **E-40** (page 42).

**⚠ When installing E Series door entry phones outdoors, always use the EWP version – See page 9**

### Double Gang Handsfree Video Entry Phone

- Built in color composite video camera with 420 lines of resolution wide 70° viewing angle.
- Audio and video transmission on one **CAT5E** cable (150 ft. max video)
- Same entry phone operating specifications as **E-40** (see page 42)
- Surface mount box available for **E-65**, model **VE-5x5** (see page 33)

Model	Description	DOD #
<b>E-65-SS</b>	Stainless Steel Video Phone	<b>203</b>
<b>E-65-BN</b>	Oil Rubbed Bronze Video Phone	<b>203</b>
<b>E-65-PB</b>	Polished Brass Video Phone	<b>203</b>
<b>E-65-WH</b>	Satin White Video Phone	<b>203</b>
<b>E-65-BK</b>	Satin Black Video Phone	<b>203</b>



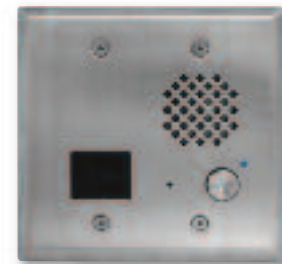
**E-65-WH**

**⚠ When installing E Series door entry phones outdoors, always use the EWP version – See page 9**

### Double Gang Entry Phones with Proximity Card Reader

- Built in 125KHz compatible 26-bit Wiegand proximity card reader (see page 38 for other HID compatible products)
- Same entry phone operating specifications as **E-40** (see page 42)
- Surface mount box available for **E-70**, model **VE-5x5** (see page 33)

Model	Description	DOD #
<b>E-70-SS</b>	Stainless Steel Prox Reader Phone	<b>207</b>
<b>E-70-BN</b>	Oil Rubbed Bronze Prox Reader Phone	<b>207</b>
<b>E-70-PB</b>	Polished Brass Prox Reader Phone	<b>207</b>
<b>E-70-WH</b>	Satin White Prox Reader Phone	<b>207</b>
<b>E-70-BK</b>	Satin Black Prox Reader Phone	<b>207</b>



**E-70-SS**

**⚠ When installing E Series door entry phones outdoors, always use the EWP version – See page 9**

### Double Gang Video Entry Phones with Proximity Card Reader

- Built in 125KHz compatible 26-bit Wiegand proximity card reader (see page 38 for other HID compatible products)
- Built in color composite video camera with 420 lines of resolution wide 70° viewing angle.
- Surface mount box available for **E-75**, model **VE-5x5** (see page 33)

Model	Description	DOD #
<b>E-75-SS</b>	Stainless Steel Video/Reader Phone	<b>208</b>
<b>E-75-BN</b>	Oil Rubbed Bronze Video/Reader Phone	<b>208</b>
<b>E-75-PB</b>	Polished Brass Video/Reader Phone	<b>208</b>
<b>E-75-WH</b>	Satin White Video/Reader Phone	<b>208</b>
<b>E-75-BK</b>	Satin Black Video/Reader Phone	<b>208</b>



**E-75-PB**

**⚠ When installing E Series door entry phones outdoors, always use the EWP version – See page 9**

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See page 39

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