**Systems***technologies* 

# Vision<sub>Link II</sub>® Wireless Nurse Call System

# **Installation Manual**

Issue 01, May 17, 2017

Part Number VL3322-01

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# Warning

VisionLink II is a life safety system and the installation of other software or hardware on the system CPU is not supported and may compromise system integrity and void the system warranty resulting in an hourly charge for technical support. We strongly recommend that a separate computer be used for any other software programs.

# Notice

The contents of this manual, which reflect current Systems Technologies standards and which document VisionLink II software version 1.1.9.13 are subject to revision or change without notice. Software packages released after the publication of this manual will be documented in addenda or succeeding issues of the manual.

If additional information is required, please contact:

Systemstechnologies Technical Support 11310 N. Government Way Hayden Idaho 83835 Phone: 208-762-6800 Fax: 208-762-4877 Email: support@wirelessnursecall.com Website: www.wirelessnursecall.com

### **Safety Regulations**

When using your emergency call equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- 1. Read and understand all instructions.
- 2. Follow all warnings and instructions marked on the product.
- 3. If cleaning should be required, use standard computer shut down procedures, then unplug the system from the power before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use the system near water or place in a damp room.
- 5. Do not place the system on an unstable cart, stand, or table.
- 6. The system case openings must not be blocked or covered. Never place the system in a cabinet without proper ventilation.
- 7. The system and all its components should be powered by the supplied UPS (uninterruptible power supply).
- 8. Do not locate the system where the cord can be tripped on or abused by persons walking on it.
- 9. Do not use an extension cord to power the system.
- 10. To reduce risk of electric shock, do not disassemble the system. Opening or removing covers may expose you to dangerous voltages or other risks. Opening the system will void the warranty. Contact SystemsTechnologies when service or repair work is required.
- 11. Call SystemsTechnologies immediately if any of the following conditions occur.
  - The power cord becomes damaged.
  - The system has become exposed to any liquid.
  - If the system has been dropped or damaged.
  - If the system is not functioning properly.

#### **Save these Instructions**

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# **Console Setup**

#### **Receiving/Unpacking**

• Inspect all components and devices for damage upon receipt and verify quantities against the packing list. Report any damage claims immediately to the shipping company and any missing items to Systems Technologies at 208-762-6800.

#### VL2600 Console Assembly

- Connect the video cable from the monitor into the computer's video output port and plug the monitor's power cord into the *Surge Protection* side of the provided UPS. (Figure 1)
- Connect the 1/8" dual male audio cable between your monitor's audio input or external speakers and the green audio output jack of the computer. (Figure 1)
- Connect the keyboard and mouse into the USB or PS2 ports. (Figure 1)
- Connect the receiver (Figure 2) to Com 1 on the computer using the provided serial cable. Plug the receiver power supply into one of the *Battery Backup* + *Surge Protection* sockets of the UPS and into the receiver. Mount the receiver as high as possible.
   <u>Do not place the receiver near any metal objects or electrical wiring.</u>
- Attach the female end of the PC power cable to the back of the console and the male end into one of the *Battery Backup* + *Surge Protection* sockets of the UPS



**VL182-WAV** 



- Remove the WaveWare paging transmitter and all of its components from the box.
- Choose a mounting position for the paging transmitter that is as high as the cables will allow.
- Attach the provided antenna to the BNC connector on top of the paging transmitter.
- Connect the female end of the provided serial cable to Com 4 on the back of the computer. (Figure 1)
- Connect the male end to the serial port on the side of the paging transmitter.
- Connect the two-pin connector of the power cord (white plastic) to the side of the paging transmitter and plug the power cable into a *Battery Backup* + *surge protection* socket of the UPS.

Do not supply power to the paging transmitter without attaching the antenna first. Do not place radio page transmitter close to or on top of metal objects.

#### VL175-2 Dome Light Controller

Figure 3



- Connect the male end of the provided serial cable to the VL175-2 Dome Light Controller.
- Connect the female end to Com 3 on the back of the VL2600 system. (Figure 1)
- Connect the power cord to one of the *Battery Backup* + *surge protection* sockets of the UPS.
- The red light, marked *Output Short Indicator* on the Control Unit, will illuminate if there is a short in an output cable run to the dome lights or upon initial power-up. If the short indicator light illuminates press the reset button and release when the LED goes out. If the short indicator light does not turn off or returns immediately, refer to the troubleshooting procedures in the back of this manual.
- Each pair of wires going from let to right of the green 24vdc power output plug constitutes a channel. (Left to right, each run will be 1<sup>st</sup> run Red wire then Black Wire, 2<sup>nd</sup> run Red wire then Black wire, 3<sup>rd</sup> run Red wire then Black wire, 4<sup>th</sup> run Red wire then Black wire). (Figure DLC2)
- When installing the dome lights it is recommended to balance this load by dividing the number of lights equally between the 4 channels. For VL325 series lights no more than 25 lights per channel (up to 100 lights). For VL327 series LED lights no more than 50 lights per channel (up to 200 lights). (Figure DLC2)
- Do not open the lid of the Control Unit, this will void the warranty.
- Do not apply power to this unit until you
  - 1. Ensure there are no shorts.
  - 2. Verify cable runs to the Control Unit use proper connectors.

## **Initial System Start up**

#### System Startup

• Push the on/off toggle Switch on the rear of the computer. The system should automatically boot up into the *VisionLink II Wireless Emergency Call System* software; if it does not start automatically contact your dealer or Systems*technologies* for assistance.

#### Logging In

- You will need Admin privileges in order to add, change, or delete information. To do this you will need to click on the "Not logged in" prompt located in the lower left hand corner of the VisionLink II software and enter your user name and password. (Figure C1)
- On first setup you will be able to log into the system as the Admin using the credentials **User Name:** Admin and **Password:** admin. Once logged in as the Admin we recommend you change the Admin password to one of your own.
- Click on the set button at the top of the VisionLink II screen to change the Admin password.
- Enter the new password in the "Password" box. (Figure C2)
- Re-enter the new password in the "Confirm Password" box. (Figure C2)
- Click on the "Save" button. (Figure C2)





Figure C2

#### **Creating User Groups**

- User groups allow you to give people certain privileges when they log into the system. The Admin user should be the only user with all options to the software.
- Click on the "Edit Groups" button. (Figure C3)
- As you can see the Admin group has been assigned all Permissions.
- Click on the "Add" button. (Figure C4)
- In the "Group Name" type the group name and click the "OK" button. (Figure C5)
- Click on the new group name that you created in the "User Groups" window. (Figure C6)
- Click on each permission (See Permission Definitions below) you would like the group to be able to view or make changes to when they log into the system. Click the "Save" button. (Figure C6)

Usen	II User Groups	User Groups
Correct risks United States of the second states o	and and Add stature Mady statur	Adde Reserve Date Date
Add Group Group name OK	CNA Cancel	Figure C6

#### **User Permission Definitions**

- **Modify Stations** Allows the user to Create, Delete, and change the name of any station.
- **Modify Rooms** Allows the user to Add, Remove or Modify Rooms and Beds and Change information within the room (ID#s, Devices, Resident Information) and change the name of any room.
- Take Call Allows the user to "Take" a call at the console or Mobile App.
- User Management Allows the user to Add, Remove, or Modify any user and their permissions.
- System Settings Allows the user to make any changes to the VisionLink II settings.
- Advanced System Settings Allows the user to make any changes to the VisionLink II Advanced settings.
- View Reports Allows the user to use the Statistical Call Analysis reports.
- View Advanced Reports Advanced Statistical Call Analysis reports cannot be accessed unless purchased as an optional add-on. (See Optional Add-ons)
- **Basic Notification Settings** Allows the user to make changes to the notification settings. (Adding and removing users for paging, Text, Email, Mobile App, Etc)
- Advanced Notification Settings This allows the user to Add, Remove, Modify, or Copy rules for Notification settings.

#### **Creating Users**

- Click on the Quers button at the top of the VisionLink II screen.
- Click on the "Add" button. (Figure C7)
- In the "Username" box type the name of the user. (Figure C8)
- In the "Password" box type the password the user will use when logging into VisionLink II. (Figure C8)
- In the "Confirm Password" box type the same password again. (Figure C8)
- Click on the drop down menu next to "Group" and choose what group (See Creating User Groups on page 8) the user will be part of. (Figure C9)

Users	Add User
Current status	Usemame Philip <del>4</del>
Admin Usemanie Admin	Password
Password leave blank to keep existing password	
Confirm password leave blank to keep existing password	
Group Admin •	Group Admin 👻
Edit groups	OK Cancel
Add Remove Save Close	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Figure C7	Figure C8

Add User	×
Usemame	Philip
Password	
Confirm password	••••
Group	Admin -
ок	Supervisor CNA Nurse Admin Advanced Technical Sup
~	Figure C9

#### **Creating a Station**

- Right click in the empty box and choose "New Station" (Figure CS 1)
- Enter the name of the new station and Click the OK button. (Figure CS 2)
- The list should now look like Figure CS 3 with your new station name.

Search by names or IDs	New Station
	Station name
	OK Cancel
	Figure CS 2
Figure CS 1	Search by names or IDs
	1st Floor
	Figure CS 3

#### Creating a Room

- Right Click on the station name and choose "New Room". (Figure CR 1)
- Enter the new room name. (Figure CR 2)
- Open the "Number of Beds" drop down menu and choose how many resident beds you would like and click the OK button. (The number of beds refers to how many residents reside in each room). (Figure CR 3)
- Note: When programming in devices, please keep in mind if the device will be resident specific (Pendant, Bed Station, Etc) or Room specific (Bathroom, Shower, Living Room, Etc). Resident specific devices are programmed into the Details (Bed Number) section of the room for each resident. The Room specific devices will be programmed into the Properties section of each room.

Search by names or IE	)s	Date Time		Room			x
	New room New station Change station r Remove station Disable station	lame		Name/No	Room 100	Cancel	
Fiç	gure CR 1			L	Figure CR	2	
	Room				<b>—</b> ×		
	Name/I	No Room	100				
	Number of b	eds 0 1 2 3 4 5 6	v	Cancel			
		Fi	igure CR 3				

# Hardware Installation and Programming

#### VL155-EM Series Bed Stations



#### **General Description**

 The bed station is generally placed in a wall adjacent to a resident/patient bed and has an actuating device connected to it with a ¼" plug such as a VL345 series call cord. When the actuating device is activated a red LED is illuminated on the bed station and a wireless signal is sent to the VL2600 console. To reset the bed station, you will need to press the reset button on the bed station for approximately 3 to 5 seconds until the red LED turns off. This resets the bed station and also removes the active alarm on the VL2600 console. Metal boxes are not acceptable to house the VL155 series.

#### **Mounting Instructions**

- Install the included CR123 batteries then press the reset button located on the circuit board next to the batteries. The station will remain in alarm state if each jack does not have a call cord connected to it and seated in the jack properly. Some call cords may require a non-metallic spacer. The VL155 series bed station has a single-gang faceplate that can mount flush to the wall or can be surface mounted.
  - All back boxes used for flush mounted stations must be plastic (Carlon A52171D with A410 Ring or Carlon B122A).
  - To flush mount this station cut a new single-gang hole into the wall and use a single-gang caddie or mud ring (MPLS, BB10L, or Arlington LV1RP). Installation rings may need to be notched for the circuit board. The LV1RP ring does not need notching.
  - A single-gang plastic surface mount box such as a Wiremold 2344 may be used to cover existing steel back boxes.

If you have not yet created a station or room for the Bed Station to be programmed into, refer to page 10 and 11 before continuing to Page 13 "Programming Bed Stations into the system".

#### Programming a Bed Station into the System

- Click on the + sign next to the room name. (Figure B1)
- Double click on the Bed number for the specific resident. (Figure B2)
- Click on the box next to "Enable Bed Station" to place a checkmark in the box. (Figure B3)
- Enter the ID# from the back of the Bed Station (Only the numbers) into the "ID" box. (Figure B4)

#### Entering a Dual Bed Station

- After entering the 1<sup>st</sup> ID# in the Bed 1 location. Open the "Bed to Detail" menu and choose the next bed.
- To enter the ID# for the second location of the Dual Bed station you add 1 to the ID. Example: If the 1<sup>st</sup> ID# is 12345, the next ID# will be 12346.
- When finished entering the ID#(s) Click the OK button.

ocarcin by names of 105	Search by names or IDs
Figure B1	□ 1st Floor □ Room 100 #1 #2 #3 #4
	Figure B2
Select the bed to detail     Image detacted     Select change       Bed     Image detacted     Select change       ID     ID     Device Type       Enabled bed station     ID     Device Type       ID     Add     Persove	Room Details       Select the bed to detail       Bed       If Enabled bed station       ID       Device Type       Enabled       ID       Device Type       Enabled       Add       Remove       Modity
Occupant  Phone  Prodect  Has wretess pendart  D 1224  Location  Custom voice message	Cocupant Name Phone Pendent ID 1224 Locking type Location Custom voice message
Det code	Det code
Print OK Cancel	Print OK Cancel

# Bed Turn

#### **General Functionality**

• When Bed Turn is enabled an alarm will be created throughout the day at a fixed interval; every thirty minutes, every hour, or every two hours. This alarm will display at the console, light up the dome light (if used) and send a notification to the staff assigned to that room. (If Notification is used). To reset the bed turn alarm, the bed station for the bed to be turned will have to be activated and then reset.

A Bed Station must be programmed into the room Details before Bed Turn can be used.

#### Programming a Bed Turn into the System

- Click on the + sign next to the room name. (Figure BT1)
- Double click on the Bed number for the specific resident. (Figure BT2)
- Click on the "Bed Turn" button. (Figure BT3)
- Click in the box next to "Enable Bed Turn for this Bed Station" to place a check mark in the box. (Figure BT4)
- In the "Time Interval for Bed Turn" box, click on the circle next to how much time you would like between bed turns. (Figure BT4)
- In the "Time of Hour to Create Call" box, click on the circle next to the time of the hour you would like the first call to happen. When finished click the "OK" button in the "Bed Turn" window then click the "OK" button in the "Room Details" window.

Search by names or IDs	Room Details		
□ 🚉 1st Floor	Select the bed to datal 1 Carge detected Seve change Bed ID 12345 Endturn.		
Figure BT1	Add Renove Modfy		
Search by names or IDs	Figure BT3         Bed turn         Image: Colspan="2">Colspan="2"         Eed turn       Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"        Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"        Colspan="2"          Colspan="2" <th <="" colspan="2" t<="" td=""></th>		
Figure BT2	OK Cancel		
	Figure BT4		

- When the "Bed Turn" is activated by the system it will show on the screen in grey. Under the "State" column it will show that it is a Bed Turn. (Figure BT5)
- To reset the bed turn you will need to activate the bed station assigned to that resident and then reset the bed station. This will clear the notification from the system and reset the system for the next bed turn notification

Date Time	State	Туре	Room	Bed	Occupant	Location	Response
4/25/2017 11:15:00 AM	Bed turn	Bed Station	Room #100	1			Waiting
			Figure BT5				

# VL535-NB7, VL535-FN-B7, and VL535-WB7 Pendants



#### **General Description**

- The VL535 series pendants are transmitting devices that may be carried by a resident. They may be used as locking type devices or as persistent devices depending on how they are programmed into the system. When used as a locking type device the pendant alarm may only be reset by moving the magnetic reset wand over the front of the VL535 pendant. As a persistent device, the pendant alarm is either reset at the VL2600 (doubleclicking the alarm) or made to reset automatically after a specific amount of time (By changing the programming in the VisionLink II).
- A Fall Alarming variation is available that will send an alarm when the pendant senses a fall. For that feature it is necessary for the pendant to be carried in an upright position in the provided holster, if the pendant is not carried in the holster then it functions as a standard necklace pendant would.

# If you have not yet created a station or room for the Pendant to be programmed into, refer to page 10 and 11 before continuing to Page 13 "Programming Bed Stations into the system".

#### Programming a Pendant into the System

- Click on the + sign next to the room name. (Figure P1)
- Double click on the Bed number. (Figure P2)
- Click on the boxes next to "Has wireless Pendant" and "Locking Type" to place a checkmark in the boxes. (Figure P3)
- Enter the ID# from the back of the pendant (Only the numbers) into the "ID" box and click the "OK" button. (Figure P3)



### VL160-EM and VL170-EM Series Emergency Pull Stations

#### **General Description**

• An alarm will annunciate at the console when the string is pulled down on any one of these stations. Slide the switch to the up position to reset the alarm which will remove the alarm from the VL2600.The following is a description of each type. Metal boxes are not acceptable to house the transmitter



#### **Device Description**

- VL160-2-EM Pull station with LED to indicate station alarm.
- VL160-4-EM Pull station with LED to indicate station alarm and Check In button.
- VL160-6-EM Staff Pull station with LED to indicate station is in alarm.
- VL160-7-EM Shower Pull station with LED to indicate station is in alarm.
- VL170-EM Code Blue Pull Station with LED to indicate station is in alarm.

#### Mounting Instructions

- The VL160 series pull station has a single gang faceplate that can mount flush to the wall or can be surface mounted using a plastic surface single gang box. The VL160 stations are generally placed in a wall where a resident/patient might require assistance. Examples of these areas would be in a dining room, restroom, and hallway or next to a bed. The VL160-4 pull stations with a resident check-in button are generally placed in the residents/patients restroom.
  - All back boxes used for flush mounted stations must be plastic (Carlon A52171D with A410 Ring or Carlon B122A).
  - To flush mount this station cut a new single-gang hole into the wall and use a single-gang caddie or mud ring (MPLS, BB10L, or Arlington LV1RP).
  - A single-gang plastic surface mount box such as a Leviton 2348 for the VL160-3 & VL160-4 or a Wiremold 2344 for the VL160-2, VL160-5 may be used to cover existing steel back boxes.

#### Programming a Pull Station into The system

- Determine what type of Pull Station you will be using and where it will be located in the room. If you are going to place the station in the bathroom, shower or living room, then see the section "Creating a Device Type" Page 59.
- If the Pull Station is going to be installed into an area of the room (bathroom, Shower, Living Room, Etc) that is not resident specific; you will program the ID# into the properties of the room.
- Right click on the room number and choose Room Properties. (Figure PS1).
- If you are programming in a pull station with a device type different than just an Emergency Pull Station (Bathroom, Shower, Living Room, Etc) click on the Add button located at the bottom of the Room Properties Box. (Figure PS2)
- Open the drop down menu and choose the device type. (Figure PS3)
- Enter the ID# located on the back of the Pull Station (Numbers Only) into the Device ID box and click the OK button. (Figure PS4)
- If you are just programming in a Pull Station; click on the box next to "Enable Emergency Pull Station" to place a check mark in the box and enter the device ID#. (Figure PS5)
- When finished entering the device ID#s, click the OK button. (Figure PS6).

Search by names or IDs	Date Time	rties	Add device	<b>—</b>
Ist Floor New room Room details Remove room Figure PS1	Name/ho D E Fadle D Addors D Addors D Addors	Reon 100 OK Energency Pull Station Done Light Cancel Sincke Detector devices Device Type Enabled Egrees Remove Modify	Device Devic	Type Pull Station Pull Station Pendant Smoke Detector Code Blue Locking pendant Shower Living Room Arm 7 1 0 1
	Room Prop	Figure PS2	Room Pro	Figure PS3
Add device	Name/No	Room 100 OK	Name/No	Room 100
Device Type Shower Device ID 78945	Frable     Address	e Emergency Pull Station 45397 9 Dome Light Cance	Enab II Address	le Energency Pull Station
<ul> <li>Enabled</li> <li>Egress (follow sche</li> </ul>	edule)	a Smoke Detector	Enab IE Addition	le Smoke Detector
Am     19     1       Disam     7     1	10 78945	Device Type Enabled Eg Shower V	ess ID 78945	Device Type Enabled Egress Shower V
OK Cancel	Ac	d Remove Modif		dd Remove Modify
Figure PS4	[	Figure PS5	] [	Figure PS6

# VL150 Series Push Button Stations



#### **Device Description**

- VL150 Push on Push off Emergency Call Button.
- VL150-WP Momentary Emergency Call Button with a Water Proof Gasket. (This station is normally used for a Door Bell).
- VL150-2 Push on Push off Lighted Emergency Call Button. (Has an AA Battery Pack wired to the switch).
- VL150-2-VR Push on Push off Lighted Emergency Call Button. This station is a metal single gang face plate with a sunken metal button and is vandal resistant. (Has an AA Battery Pack wired to the switch).
- VL150-2BTN 2 Button Push on Push off Lighted Emergency Call Buttons. (Has an AA Battery Pack wired to the switches) This device is used to trigger 2 different alarm types. (See "Creating a Device Type").
- VL150-3BTN 3 Button Push on Push off Lighted Emergency Call Buttons. (Has an AA Battery Pack wired to the switches) This device is used to trigger 3 different alarm types. (See "Creating a Device Type").

#### **Mounting Instructions**

- The VL150 series Emergency Call Buttons have a single gang faceplate that can mount flush to the wall or can be surface mounted using a plastic surface single gang box. The VL150 stations are generally placed in a wall where a resident or Staff might require assistance. The VL150-WP is normally mounted outside by a door for use as a Door Bell.
- All back boxes used for flush mounted stations must be plastic (Carlon A52171D with A410 Ring or Carlon B122A).

#### Metal boxes are not acceptable to house the transmitter.

- To flush mount this station cut a new single-gang hole into the wall and use a single-gang caddie or mud ring (MPLS, BB10L, or Arlington LV1RP).
- Slide the attached transmitter and AA battery pack (If it is a lighted button) inside the wall and mount the face plate to the single-gang caddie or mud ring (MPLS, BB10L, or Arlington LV1RP).
- A single-gang plastic surface mount box such as a Leviton 2348 may be used to cover existing steel back boxes. (These devices can not be mounted in the same back boxes used for the VL160 stations).

#### Programming into the System

• Refer to the VL160 Pull Station (Page 17) and "Creating a Device Type" (Page 59).

# VL327 LED Series Dome Lights



#### Each combination of dome lights has the option of a piezo for audible sound.

VL327-1-W: This dome light has one White LED and will light for calls

	0		
•	Normal	Steady illumination	LED 1
•	Emergency	Blinking illumination	LED 1
•	Fast Emergency	Blinking illumination	LED 1
VL327-1-WP: dome light	ht has one White LED and a Piezo for	audible sound and will lig	nt for calls
•	Normal	Steady illumination	LED 1
•	Emergency	Blinking illumination	LED 1
•	Fast Emergency	Blinking illumination	LED 1
VL327-2WR: This dom	e light has one White and one Red LE	D and will light calls	
•	Normal	Steady illumination	LED 1

٠	Emergency	Blinking illumination	LED 1
٠	Fast Emergency	Blinking illumination	LED 1
٠	Fire	Blinking illumination	LED 4

VL327-3WBR: This dome light has LEDs that are White, Blue, and Red and will light calls

٠	Normal	Steady illumination	LED 1
٠	Emergency	Blinking illumination	LED 1
٠	Fast Emergency	Blinking illumination	LED 1
٠	Code Blue (Extremely Urgent)	Blinking illumination	LED 3
٠	Fire	Blinking illumination	LED 4

VL327-4WABR: This dome light has LEDs that are White, Amber, Blue, and Red and will light calls

Normal
 Emergency
 Fast Emergency
 Code Blue (Extremely Urgent)
 Fire
 Steady illumination
 Blinking illumination

LED 1

LED 1

LED 1

LED 3

LED 4

#### **General Description**

- Dome lights, VL327 series, are generally placed over the door of a room as a visual indicator of an alarm. A STEADY ON condition indicates a normal priority alarm such as a bed station. A FLASHING condition indicates an emergency priority alarm such as an emergency pull station, staff emergency pull station or pendant call. An emergency priority will supersede a normal priority and will flash even if a normal priority call is active. Dome lights with multiple bulbs can be configured in the VL2600 programming to light any bulb depending on how the device Type is set up (See Creating a Device Type Page 59).
- Zone lights are generally placed in strategic locations such as in front of a nurse station or at the corner of a hallway and encompass an area of rooms instead of a single room (indicating a call has been activated in an area). Their operation will mirror that of the dome lights including the priority operation.

#### Wiring Instructions

- Dome/Zone lights require two conductor, twisted, 18 AWG wire for power.
- Dome/Zone lights are polarity sensitive, (the red wire is positive, black wire is negative), and must be connected red-to-red and black-to-black at every light.
- All dome light wiring should be run in parallel. It is strongly recommended that you distribute the quantity of dome lights evenly between the four outputs.
- Maximum wire run should not exceed 500 feet. Maximum 200 dome lights on one VL175-2 unit (50 lights per channel.)

#### Mounting Instructions

- Dome/Zone lights mount onto a 2 gang back box, mud ring or caddy.
  - New Construction: Raco 232 box with 791 ring, Union SN236 box.
  - Existing Structure: Carlon B225R-UPC box, Caddy MPLS 2 ring.
  - Surface Mount: Wire Mold NM2048-2 box or V5747-2 box.
- Remove the white plastic lens by pulling directly away from the light fixture to access the four mounting holes.
- Four screws are provided with each dome light.

#### Installation and Testing

- All connections are to be made before connecting the VL327 Dome Light runs to the VL175-2 Control Unit and powering on.
- Connect the first Dome Light run to the first channel (Figure DL2)(Red Arrow is Positive and the Black arrow is the Ground wire)
- Tighten the connections by screwing down the connector blocks. (Figure DL3)
- If you have more than one run, the next run will be wired to the next 2 positions on the green connector. (Figure DL2)(Left to right, each run will be 1<sup>st</sup> run Red wire then Black Wire, 2<sup>nd</sup> run Red wire then Black wire, 3<sup>rd</sup> run Red wire then Black wire,4<sup>th</sup> run Red wire then Black wire)(Figure DL2)
- When finished connecting all the runs to the green connector, plug the green connector into the Dome Light Controller. (Figure DL1)

• Plug the Dome Light Controller into the UPS battery back up as instructed on page 6.



#### Addressing Dome/Zone Lights

Figure DL3

Figure DL7

- Addresses on the Dome/Zone lights are set by turning on dip switches located on the back of the Dome/Zone lights. (Figure DL5)
- If you have a Piezo on the dome light, there will be two banks of dip switches. The one dip switch bank that is labeled ADDRESS is used to address the dome light. The other switch bank is used for the Piezo (Covered in the VL140L-1RP starting on Page 24).
- Use the address switch bank to address your dome light to match the address that was programmed into the *VisionLink II* software.(Addresses can be 1 to 251) (Addresses 252 254 are reserved and may not be used. Addresses 0 and 255 are used for testing only)
- The switch uses the binary system as shown below. Push the switch up to turn it on and down to turn it off.

#### Setting Dome Light ID's

Switch Number	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
Binary Value	1	2	4	8	16	32	64	128

- All switches off will give the dome light the address of 0 and will place the light in self test mode. (The light will blink on and off as long as it is connected to the VL175-2 while in this mode).
- All switches on will give the dome light the address of 255 and will place the light in communication test mode. (The light will blink as long as it is connected to the VL175-2 controller and the VL175-2 is properly connected to the VisionLink system and within the VisionLink II software you have selected Dome Light Test (Single) (Figure DL4). This procedure tests the wiring and computer interface.
- Move the required switch(s) up to the desired dome light address.



- Example
  - Dome Light address 10 =Switches 2, 4, up (2 + 8=10) Figure DL6
  - Dome Light address 72 = Switches 4, 7, up (8 + 64=72) Figure DL7

#### Programming Dome Lights in the System

- Right click on the room number and choose Room Properties. (Figure DL8)
- Click on the box next to "Enable Dome Light" to place a check mark in the box. (Figure DL9)
- Enter the Dome Light address in the address box and click "OK". (Figure DL9)



#### Programming Zone Lights into the System

- Click on the Tools pull down menu and select Zones. (Figure DL10)
- Here you may add, remove, or edit a zone. Click on the Add button. (Figure DL11)
- Type in a name for that zone. (Figure DL11)
- Type in the address you will use for the Zone light. (Figure DL11)
- Click the OK button. (Figure DL11)
- If you are going to have more than one zone light, repeat the steps for all your zone lights.
- When done entering your zone light names and addresses, click on the Assign button to assign the rooms to each zone light. (Figure DL12)

Tools Help	Zones	2	Zones	<b>-X</b> -
Device Types	Zana Zana Linkt		Zone Zone Lintt	
Users		Add	Tet FI 80	Add
User Groups	Add Zone	Remove		Remove
User Status				
Check-In	Zone name Ist H	Modify		Modify
Locators	Zone light address 80	Assign		Assim
Zones				
Notifications	OK Cancel	Close		Close
Settings				
Tests >				
Maintenance +	Figure DL11		Figure DL12	
Figure DL10				

- Open the drop down menu next to "Zone" and choose the zone you will be assigning rooms to.
  - (Figure DL13)
- Open the drop down menu next to "Station" and choose the station that has the rooms listed in it that you will be assigning to the zone light. (Figure DL13)
- The rooms will be listed on the left side under "Unassigned Rooms". (Figure DL13)
- Click on the room you would like to assign to the zone light and then click on the button with the single arrow pointing to the right. (Figure DL13)
- If you would like to move all the rooms listed under the "Unassigned Rooms", click on the button with the two arrows pointing to the right. You will now see all the rooms that are assigned to the zone light in the "Assigned Rooms" box. (Figure DL14).
- Follow these steps for each zone you created and when finished click on the OK button.
- When you have finished with all changes, click on the "Close" button.

Assign roor Zone	ns to zones	
Station	Ist Roor V Unasigned Rooms Acts Forem 100 Room 103 Room 104 Room 105 Room 105 Room 105 C C C C C C C C C C C C C C C C C C C	gned rooms
	ОК	
	Figure DL13	]

Assign rooms to zones
Zone Ist FI v
Station Int Room Unassigned Rooms Assigned rooms Room 101 Room 102 Room 103 Room 104 Room 105 Room 105 C C C C C C C C C C C C C C C C C C C
OK

#### To remove a room from a zone light

- Open the drop down menu next to "Zone" and choose the zone you will be removing the room from. (Figure DL13)
- Open the drop down menu next to "Station" and choose the station that has the room(s) listed in it. (Figure DL13)
- Click on the room name you want to remove that is listed in the "Assigned Rooms" box and click on the button with a single arrow pointing left. When finished click the OK button. When you have finished with all changes, click on the "Close" button.
- If you need to change the name or address of a zone, click on the zone you would like to modify and then click on the "Modify" button and change the name and/or the address. When finished click the OK button. (Figure DL15)
- To remove a zone, click on the "Remove" button and click the "Yes" button.
- When you have finished with all changes, click on the "Close" button.

Zones	8	Zones	8
Zone Zone 1st E 80	Light Add	Zone Zone Light	Add
2nd Roor 85	Remove	2nd Roor 85	Remove
Add Zone	Modfy	Remove? 23	Modify
Zone name End Root	Assign	Are you sure you want to remove this zone: 1st FI?	Assign
ок с	ancel	Yes No	Close
Figure DL1	5	Figure DL16	

## VL140L-1RP Duty Stations



VL140L-1RP

#### **General Description**

• Duty stations are generally placed in an area where caregivers work or relax behind a closed door or away from the hallways such as an employee lounge or lunch room. Rooms are assigned to each duty station so that it will annunciate when an alarm is activated from one or more of these rooms notifying the caregiver. Notification is visual with a red light and the option of an audible sound. To turn off the sound when the duty station is triggered, push the red button located on top of the VL140L-1RP. After the call is answered and the station that initiated the call is reset, the red button should be pushed again to allow the sounder to sound when the next call is received. Otherwise only the LED will flash on next call.

#### Programming a Duty Station into VisionLink II

- Duty stations are programmed into the system the same as a Zone light. See <u>Programming Zone Lights into The System</u>. (Page 22) Give the duty station a name that lets anyone know it is a duty station and not a zone light.
- If you are going to have a duty station come on anytime a certain zone light is activated, there is no need to program the duty station into the system. All you need to do is address the duty station the same address as the zone light. See <u>Addressing</u> <u>Dome/Zone Lights</u>. (Page 21).

#### Wiring, Installation, and Testing Instructions

• The Duty stations utilize the same wire and power as the dome lights and may run parallel off of a dome light. See instructions for Dome Lights on Page 20.

## VL130-LC and VL130-LC-FM Beacon Locators





#### **General Description**

VL130-LC Beacon Locators are used in conjunction with specially programmed VL525 series and VL535 series pendants to provide the location of a resident that is in need of help and has alarmed the pendant. Each Beacon Locator is programmed with a unique ID#. The Beacon Locator is programmed into the VisionLink II software using this unique ID# and a description of where they have been installed. The antenna that is attached to the Beacon Locator is used to broadcast a signal that the VL525 series and VL535 series location pendant listens for. When the pendant hears a Beacon Locator signal it stores the unique ID# of that Beacon Locator. The VL525 series and VL535 series pendants can store up to 3 unique Beacon Locator ID# at a time. When the VL525 series and VL535 series pendant sees a fourth Beacon Locator ID#, it clears its memory of the 3<sup>rd</sup> ID# it has and places the new Beacon Locator ID# into its 1<sup>st</sup> spot of Beacon Locator ID#. It will keep doing this with each Beacon Locator the resident passes. When the resident needs help and activates the pendant. The pendant sends the ID# of the last three Beacon Locators' the resident passed along with the alarm to the VisionLink II software. The VisionLink II software sends the residents information and the last location the resident passed out to the staff using the notification that is being used buy the facility. (Pocket Pagers, Cell Phone Text, Email, Ect) The location information can also be accessed by clicking the alarm that appears on the screen.

#### Wiring Instructions

• The power supply and antenna assembly are routed or covered so as to reduce visual impact and tampering.

#### **Mounting Instructions**

Note: Make sure that the green wire at the end of the power cable with the plug is screwed to the grounding screw of the outlet that the beacon will be powered from. (Always test the outlet to make sure it is wired and grounded properly).

#### Metal boxes are not acceptable to house the transmitter

- Beacons can be Surface mounted (VL130-LC) or Flush mounted (VL130-LC-FM). The antenna for both beacons is mounted using a security camera mount that is provided with each beacon that is ordered.
- In Surface mounting situations (VL130-LC), the beacon is mounted to a wall or ceiling using the two screw holes located at each end of the beacon box. The beacon can also be placed above a floating ceiling with the antenna being placed on the panels facing down.
- In Flush mounting situations (VL130-LC-FM), the beacon is located inside of a small case and wired to a single gang faceplate that has all of the connections mounted to it. To flush mount this beacon, cut a new single-gang hole into the wall and use a single-gang caddie or mud ring (MPLS, BB10L, or Arlington LV1RP).

#### Installation and Testing

- Install beacons at locations like lobbies, different points of hallways, building choke points, elevator and stairway accesses. The more beacons used will give you a more accurate location of the resident and could provide a direction of travel.
- During installation the beacon transmission strength levels can be set using the
  potentiometer on the controller. There are 8 settings, 0 is short and 7 is the longest. The
  switch rotates and can be adjusted with a small screw driver. (Do not turn the
  potentiometer past the setting of 7. If you need to turn the setting back to 0 you
  must turn the potentiometer counter clock wise back to 0). A magnifying glass may
  be needed as the numbers on the potentiometer are very small.
- Use the beacon test pendants to test the field size and adjust the strength level so the pendant will receive the signal when a resident walks by the location beacon antenna. In multi-floor facilities, power levels must be adjusted using the potentiometer so a beacon signal will not be seen by a pendant on adjacent floors.

<u>When adjusting the strength levels, you must unplug the beacon from power before</u> <u>making the adjustment. Then plug the power back in after making the strength adjustment.</u> <u>This must be done every time you need to make strength level adjustments.</u>

Note: Elopement Beacons can be used as Location Beacons for the VL535 Location pendants, but Location Beacons can not be used to trigger the VL535 Elopement pendants.

#### VL130-EB and VL130-EB-FM Beacon Elopement Locators



#### **General Description**

• VL130-EB Beacon Elopement Locator are used in conjunction with specially programmed VL525 series and VL535 series pendants to provide the location of a pendant that has automatically been alarmed because a resident has walked too close to a protected door. The Beacon Elopement Locator ID# is programmed into the *VisionLink II* software. The antenna that is attached to the beacon is used to broadcast a signal that the VL525 series and VL535 series Elopement pendant listens for. When the Elopement pendant hears a Beacon Elopement signal it automatically triggers and sends an alarm to the *VisionLink II* system. The pendant sends the ID# of the last Beacon Elopement Locator the resident passed along with the alarm to the *VisionLink II* software. The *VisionLink II* software sends the residents information and the protected location out to the staff using the notification that is being used buy the facility. (Pocket Pagers, Cell Phone Text, Email, Etc) The Elopement information can also be accessed by clicking the alarm that appears on the screen.

#### Wiring Instructions

• The power supply and antenna assembly are routed or covered so as to reduce visual impact and tampering.

#### **Mounting Instructions**

Note: Make sure that the green wire at the end of the power cable with the plug is screwed to the grounding screw of the outlet that the beacon will be powered from. (Always test the outlet to make sure it is wired and grounded properly).

#### Metal boxes are not acceptable to house the transmitter.

- Beacons can be Surface mounted (VL130-EB) or Flush mounted (VL130-EB-FM). The antennas for both beacons are mounted using a security camera mount that is provided with each beacon that is ordered.
- In Surface mounting situations (VL130-EB) the beacon is mounted to a wall or ceiling using the two screw holes located at each end of the beacon box. The beacon can also be placed above a floating ceiling with the antenna being placed on the panels facing down.
- In Flush mounting situations (VL130-EB-FM) the beacon is located inside of a small case and all of the connections are wired to a single gang faceplate. To flush mount this beacon, cut a new single-gang hole into the wall and use a single-gang caddie or mud ring (MPLS, BB10L, or Arlington LV1RP).

#### Installation and Testing

- Install the Elopement beacons at any exit door, Stair well entry, Elevator, and any location you do not want a resident to enter or exit.
- During installation the beacon transmission strength levels can be set using the potentiometer on the controller. There are 8 settings, 0 is short and 7 is the longest. The switch rotates and can be adjusted with a small screw driver. (Do not turn the potentiometer past the setting of 7. If you need to turn the setting back to 0 you must turn the potentiometer counter clock wise back to 0). A magnifying glass may be needed as the numbers on the potentiometer are very small.
- Use the Elopement beacon test pendant to test the field size and adjust the strength level so the pendant will receive the signal when a resident walks to close to the location that is being protected. In multi-floor facilities, power levels must be adjusted using the potentiometer so a beacon signal will not be seen by a pendant on adjacent floors or through any walls.

Note: When adjusting the strength levels, you must unplug the beacon from power before making the adjustment. Then plug the power back in after making the strength adjustment. This must be done every time you need to make strength level adjustments.

## **RFID Location and Elopement Locators**



#### **RFID Location Locators**

- VL125-4H-B7 has a front facing PIR and consists of a dual gang RFID detector and four user replaceable batteries. The VL125-4H-B7 is engineered to be installed in a six foot wide hallway. The wireless RFID locator can detect a VL535-NB7 necklace pendant, VL535-WB7 wrist pendant or VL535-FN-B7 belt clip pendant with automatic fall impact detection. The locators can detect a wireless pendant transmitter within approximately 6 feet. It enables the wearer location to be identifiable by floor and area or room in a multistory building. Each VL125-4H-B7 has a separate ID that is programmed into a Vision Link or Micro Vision 400Z Wireless Emergency Call System. (See Programming Elopement and Location beacons into the System Page 26). When an alarm is originated from any programmed and enabled pendant transmitter, both the pendant ID and RFID locator ID is sent to the Vision Link or Micro Vision 400Z. The Vision Link or Micro Vision 400Z then sends out through notification (Pocket Pagers, Cell Phone Text, Mobile App, Email, Etc) the resident information and the last location the resident was near.
- VL125-4R-B7 has a side facing PIR consists of a dual gang RFID detector and four user replaceable batteries. The VL125-4R-B7 is engineered to be installed to monitor across a doorway entry. The wireless RFID locator can detect a VL535-NB7 necklace pendant, VL535-WB7 wrist pendant or VL535-FN-B7 belt clip pendant with automatic fall impact detection. The locators can detect a wireless pendant transmitter within approximately 6 feet. It enables the wearer location to be identifiable by room location. Each VL125-4R-B7 has a separate ID that is programmed into a Vision Link or Micro Vision 400Z Wireless Emergency Call System. (See Programming Elopement and Location beacons into the System Page 26). When an alarm is originated from any programmed and enabled pendant transmitter, both the pendant ID and RFID locator ID is sent to the Vision Link or Micro Vision 400Z. The Vision Link or Micro Vision 400Z then sends out through notification (Pocket Pagers, Cell Phone Text, Mobile App, Email, Etc) the resident information and the last door location the resident entered.

#### **RFID Elopement Locators**

- VL125-4HE-B7 has a front facing PIR and consists of a dual gang RFID detector and four user replaceable batteries. The VL125-4HE-B7 is engineered to be installed to monitor access in and out of a doorway entry or exit. The wireless RFID locator can detect a VL535-ENR-B7 necklace pendant or the VL535-EWR-B7 wrist pendant. The Elopement locators can detect a wireless pendant transmitter within approximately 6 feet. It enables the wearer location to be identifiable by door location. Each VL125-4HE-B7 has a separate ID that is programmed into a Vision Link or Micro Vision 400Z Wireless Emergency Call System. (See Programming Elopement and Location beacons into the System Page 26). When an Elopement pendant encounters a signal from the VL125-4HE-B7 an automatic alarm is originated from any programmed and enabled pendant transmitter, both the pendant ID and RFID locator ID is sent to the Vision Link or Micro Vision 400Z. The Vision Link or Micro Vision 400Z then sends out through notification (Pocket Pagers, Cell Phone Text, Mobile App, Email, Etc) the resident information and the door location the resident has entered.
- VL125-4RE-B7 has a side facing PIR and consists of a dual gang RFID detector and four user replaceable batteries. The VL125-4RE-B7 is engineered to be installed to monitor access in and out of a doorway entry or exit. The wireless RFID locator can detect a VL535-ENR-B7 necklace pendant or the VL535-EWR-B7 wrist pendant. The Elopement locators can detect a wireless pendant transmitter within approximately 6 feet. It enables the wearer location to be identifiable by door location. Each VL125-4RE-B7 has a separate ID that is programmed into a Vision Link or Micro Vision 400Z Wireless Emergency Call System. (See Programming Elopement and Location beacons into the System Page 26). When an Elopement pendant encounters a signal from the VL125-4RE-B7 an automatic alarm is originated from any programmed and enabled pendant transmitter, both the pendant ID and RFID locator ID is sent to the Vision Link or Micro Vision 400Z. The Vision Link or Micro Vision 400Z then sends out through notification (Pocket Pagers, Cell Phone Text, Mobile App, Email, Etc) the resident information and the door location the resident has encountered.

### Note: If you are using the Elopement and/or Location Beacon system and you are ordering pendants. Please make sure you let our customer service know what system you have. The following chart shows what pendants will work with each Location system.

#### <u>Note</u>

- X = Will Work
- **X Location Only** = Registers Location Only
- **XS** = May need special firmware before shipping.

Pendants	VL130-LC	VL130-EB	VL125-4H	VL125-4R	VL125-4HE	VL125-4RE
VL525-FN-B7	Х	Х				
VL525-IW-B7	Х	Х				
VL525-NB7	Х	Х				
VL535-NB7	XS	X Location Only	Х	Х	X Location Only	X Location Only
VL535-EW-B7	XS	XS	X Location Only	X Location Only	Х	Х
VL535-FLN-B7	XS	XS	Х	Х	X Location	X Location Only
VL535-LN-B7	XS	XS	Х	Х	X Location	X Location Only
VL535-EWR-B7	XS	XS	X Location Only	X Location Only	Х	Х
VL535-ENR-B7	XS	XS	X Location Only	X Location Only	Х	Х

#### Programming VL130-LC, VL130EB, VL125-4H, and the VL125-4HE Elopement and Location

# Note: No type of beacon should have the same ID#s. If you receive two with the same ID# please contact *SystemsTechnologies* tech support as soon as possible.

- Click on Tools and then Locators. (Figure LC1)
- Click the "Add" button (Figure LC2)
- Enter the location that the beacon was installed at. (Figure LC3)
- Enter the ID# (Only the numbers) that is located on the beacon. Example: B1000, or B1007. (Figure LC3)
- Open the drop down box next to "Type" and choose what type of device you are programming in. (Figure LC4).
- Click the OK button when finished.
- Repeat these steps for all the beacons you are installing.
- When finished Click the Close button.

Tools Help	Lacator	Locators	[37]
Device Types			
Users	ID Name Type	Close Ado	Locator
User Groups		,	Vame Dining Room 🔶
User Status			
Check-In			ID 1000 🔶
Locators			Type Beacon Locator
Zones			
Notifications			OK Cancel
Settings			
Tests +	Add Modify Remove	Add	Modify Remove
Maintenance +			
Figure LC1	Figure LC2		Figure LC3
	_		_
	Modify locator		
		1	
	Mana Dising Bases		
	Mane Dring Hoom		
	ID 1014		
	Type RFID Locator	-	
	RFID Locator		
	Beacon Locator		
	Beacon Bopement Locat	or	
	Repeater		
		1	
	Figure LC4		
		-	

#### Modifying Beacon Information in the System

- Click on Tools and then Locators. (Figure LC5)
- Click on the Beacon you would like to modify.
- Click the "Modify" button (Figure LC6)
- Delete the old information and enter the new information in the name, ID and/or the type. (Figure LC7)
- Click the OK button when finished.
- Repeat these steps for all the beacons you need to modify.
- When finished Click the Close button.

Tools Help	Locators		Locators 🛛 🕄
Device Types	ID Name Type		
Users	io namo ijpo	Close	1000 D Modify locator
User Groups			Name Hall 100
User Status			
Check-In			ID 1000 🗰
Locators			Type Beacon Locator -
Zones			
Notifications			OK Cancel
Settings			
Tests +	Add Modify Remove		Add Modify Remove
Maintenance +			
Figure LC5	Figure LC6		Figure LC7
<u> </u>			

#### Removing a beacon from the System

- Click on Tools and then Locators. (Figure LC8)
- Click on the Beacon you would like remove.
- Click the "Remove" button (Figure LC9)
- Click the "Yes" button. (Figure LC10)
- Repeat these steps for all the beacons you would like to remove.
- When finished Click the Close button.

Tools Help	Locators	Locators		23
Device Types	ID Name Type		Name	Type
Users	Lose	1000	Hall 100	Beacon Locator
User Groups		1007	Hall 200	Beacon Locator
User Status			Are you sure?	23
Check-In				
Locators			Do you want to r	remove locator Hall 200?
Zones			· · ·	
Notifications			-	
Settings				Yes No
Tests +	Add Modify Remove	Add	Modfy	Bemove
Maintenance +			rectary	THEN DEC
Figure LC8	Figure LC9		Figure L	C10
	-			

#### **Optional Programming for RFID Elopement and Location Locators**

- The RFID Elopement and Location locators can be monitored by the VisionLink II software to notify the user if there are any problems. They will be programmed into the system the same way as the VL135 Repeaters.
- Right click in a blank spot of the station and room list on the left side and click "New Station".
- Enter "RFID" for the New Station Name and click OK.
- Right Click on the "RFID" Station name and click "New Room".
- Give the new Room the name of where the device is located followed by RFID.
   Example: Front Door RFID
- Number of beds = 0, and click OK.
- Repeat these steps until all RFID locations have been entered into VisionLink II.
- Double click on the first locator name in the room list.
- Click the "Add" button.
- Open the drop down menu and choose "RFID". (If you do not have a device type named "RFID", refer to "Creating a Device" section to create a "RFID" device with the device type of "Non Display")
- Enter the ID# you wrote down when installing the RFID Locator at this location.
- Click the OK button on the "Add Device" box.
- Click the OK button on the "Room Properties" box.

Repeat all the above steps until you have entered all the RFID Locators ID#.

#### Using VisionLink II Location System

- Once the beacons are programmed into the system and the VL525 series or the VL535 series location pendants are programmed into the system properly. Location information will be sent to the VisionLink II system when.
  - The pendant is activated or reset.
  - The pendant sends a supervisory signal. (This signal is sent every hour to notify the system of its status. (Example: Low Battery)
- There are 2 ways to access location data of a VL535 pendant
  - If there is currently an active alarm triggered by the Pendant, you can access its location information by
    - Clicking the row with the alarm event. (Figure AE1)

VisionUnk E File Tools Help								
🚍 Print 🔚 View 🗐 Pape	ofo 🤷 Usen 📝 Menoge	Net	ications 🎯 Remindes	🛞 Seting 😮	Нер			
Search by names or Da	Date Time	Sale	Tate	Reom	Bed	Occupant	Lacation	Response
G-B 1st Ploor	4/18/2017 9.59.34 AM	Call	Locking pendent	Room 103	1	Jon G	Dance Floor(4/18/2017 9:59:36 AM)	Waiting

- If there is no current active alarm from the Pendant you can access its location by
  - Click on the + sign next to the room name. (Figure LC11)
    - Double click on the Bed number. (Figure LC12)
    - Click on the "Location" button located under the ID box for the wireless pendant. (Figure LC13)



		Location history
urrent location	Frant Door(4/18/2017 12:22:13 PM)	From Findey . April 14, 2017 .
Past locations	Dring Room(4/18/2017 12.15.51 PM) Front Don(4/18/2017 9.53:23 AM) Dring Room(4/18/2017 9.19:29 AM)	To Piday . Avi 14.2017 @v Time Location Ty
	More location history	

- In the Locations box it will show the "Current Location" at the top. (This is the last beacon the resident passed when an alarm or supervisory signal was sent to the system).
   Beacon location interface allows users to access all location data related to a selected pendant. By default it shows the last 20 locations of the pendant. (Figure LC14)
- To see past location history back past the 20 locations shown in Figure 59, click on the "More Location History" button. (Figure LC14)
- In this window you can choose a start date and an end date for the search criteria. (Figure LC15)
- After you have chosen your search criteria dates, click on the "Show" button. This will list all the location history that was logged during the specific times chosen.
- Location history is cleared after 2 years by default (This can be changed in the "More Advanced Settings"). You can access location history as far back as when you started to use the location system.
- The Figure below shows how the calls will look on the monitor when an alarm comes into the system. (Figure AE2)

Date Time	State	Туре	Room	Bed	Occupant	Location	Response
4/18/2017 12:35:27 PM	Wander	Locking pendant	Room #102	1	Philip C	Front Entrance(4/18/2017 12:35:29 PM)	Waiting
4/18/2017 12:35:29 PM	Call	Locking pendant	Room 103	1	Jon G	1st Floor Elevator(4/18/2017 12:35:33 PM)	Waiting
#### How to read the pendant calls on the screen

• The "Wander" call will show in purple and under the "State" column you will see "Wander" and under the "Location" column you will see the location the resident is at. (Figure AE2)

Date Time	940	Туре	Room	Bed	Occupant	Lucation	Response
4/18/2017 12:35:27 PM	Wander	Locking pendant	Room #102	1	Philip C	Front Entrance(4/18/2017 12:35:29 PM)	wiiting
4/18/2017 12:35:29 PM	Call	Locking pendant	Room 103	1	Jon G	1st Floor Elevator(4/18/2017 12:35:33 PM)	Waiting
		_					
			Figure AE2	2			

• The Emergency call will show in yellow and under the "State" column you will see "Call" and under the "Location" column you will see the location the resident last passed. (Figure AE3)

Date Time	State	Туре	Room	Bed	Occupant	Location Response	
4/18/2017 12:35:27 PM	Wande	r Locking pendant	Room #102	1	Philip C	Front Entrance(4/18/2017 12:35:29 PM) Waiting	
4/18/2017 12:35:29 PM	Call	Locking pendant	Room 103	1	Jon G	1st Floor Elevator(4/18/2017 12:35:33 PM) Waiting	
			Figure AE3				

- If you are using a notification, this information will be sent to the assigned notification.
- Below shows what each call will look like on the VL715-AG pocket pager.



## **High Power Repeaters**





#### **General Description**

• A repeater is used to cover areas that are out of range of the VL2600 console receiver. The repeater is placed in various positions between the farthest transmitters and the VL2600 receiver. The repeater listens for valid transmissions then retransmits them to other repeaters until the signal reaches the VL2600 receiver.

#### Wiring Instructions

- On the repeater there are four small holes all in a row to the left. This is where AC power is connected for a standard repeater or AC power and battery for a waterproof repeater installation.
- From Right to Left the last two connection holes are for the AC power. These two connections are not polarity sensitive. You can connect the red and black either way. After the repeater is connected to the cable connect the power transformer to the cable.
- Push the wire gently into the assigned holes and secure them with the lug screw above the wire. Use a small flat screw driver to tighten the lug screw.
- The first two holes on the repeater are for the back up battery connection.

#### **Battery Backup**

- The backup battery connections must be followed correctly or the repeater may be damaged.
- The connections are polarity sensitive and must be attached the correct way.
- Make sure the red wire is connected to the 3<sup>rd</sup> lug connection from the right and the black negative is connected to the last lug connection.
- The red wire is then connected to the battery positive connection and the black to the battery negative connection.

#### **Mounting Instructions**

- Any transmitter that is located more than 75 feet from the VL2600 will need a repeater installed some where between the transmitter and the VL2600.
- The repeater signal circle is 80 feet. Any transmitter that is located more than 75 feet from the VL2600 and more than 80 feet from the closest repeater will need another repeater installed to help the signal reach the VL2600. These steps are repeated until all devices are in a coverage zone.
- When installing repeaters make sure you write down the ID# that is located on the repeater and where you are installing it. Example: B9876 "By Room 102". (This will help with trouble shooting repeaters)
- Repeaters can be mounted above floating ceilings or inside a closet that does not have a lot of electrical equipment.
- Repeaters should be mounted up as high as possible. Do not mount repeaters close to electrical conduit or HVAC equipment.
- Use the mounting holes on the back of the repeater to guide you where to place the mounting screws.



# VL135LP-B7 Low Power Repeater

#### **General Description**

• A low power repeater, is used when a station's transmitter signal cannot reach the receiver at the computer station. The repeater is placed in between the transmitter and the base receiver. The repeater listens for valid transmissions then retransmits them. This version of repeater has the same receiver coverage as the VL135-B7 but retransmission distance is shorter.

#### Wiring Instructions

- Attach the cable ends with the spade connectors to the power supply. (Figure LP3)
- Wire the AC power adapter to the mating orange connecter. With the screw holes facing up, the red wire goes in the 3<sup>rd</sup> position and the black wire goes into the 4<sup>th</sup> position. (Figure LP4)
- Push the wire gently into the holes and secure it with the lug screw above the wire. Use a small flat screw driver to tighten the lug screws. (Figure LP4)
- On the bottom of the low power repeater there is an orange connector. This is where the AC power is connected. (Figure LP2)



#### **Mounting Instructions**

- When installing repeaters make sure you write down the ID# that is located on the repeater and where you are installing it. Example: B9876 "By Room 102". (This will help with trouble shooting repeaters)
- Screw the supplied antenna to the top of the repeater.
- Repeaters can be mounted above floating ceilings or inside a closet that does not have a lot of electrical equipment.
- Repeaters should be mounted up as high as possible. Do not mount repeaters close to electrical conduit or HVAC equipment.
- Use the mounting holes on the back of the repeater to guide you where to place the mounting screws.

#### Battery Backup

• The backup battery is built into the low power repeaters. There is no field wiring needed.

#### Programming Repeaters into the System

- Right click in a blank spot of the Station and Room list on the left side and click "New Station". (Figure PR1)
- Enter "Repeaters" for the New Station Name and click OK. (Figure PR2)

Inf Soc         Rom 100           0         Rom 101           0         Rom 101           0         Rom 102           0         Rom 103           0         Rom 105           0         Rom 105           0         Rom 105	New Station       Station name       Repeater       OK   Cancel	□         1st Floor           □         ■         Room 100           □         ■         Room 101           □         ■         Room 102           □         ■         Room 103           □         ■         Room 103           □         ■         Room 105           □         ■         Room 106           ■         ■         New room           New station         Change station pame
	Figure PR2	Remove station Disable station
Figure PR1		Figure PR3

- Right Click on the "Repeaters" station name and choose "New Room". (Figure PR3)
- Enter the location of where the repeater was installed. (Figure PR4)
- Open the "Number of Beds" drop down menu and choose "0" (Figure PR4).
- Repeat these steps until all repeater locations have been entered into VisionLink II.

om	×		Room Properties Name/No: By Room 102
Name/No	By Room 102		Add device
Number of beds			Device Type Repeater
	OK Cancel		Am 15 (2) (0 (2) Deam 7 (2) (0 (2) OK Cancel
	Figure PR4	·	Add Remove
			Figure PR

- Use the ID# list that you created when installing the repeaters and program them into the VisionLink II system.
- Double click on the first repeater name in the room list.
- Click the "Add" button.
- Open the drop down menu and choose "Repeater". (Figure PR5) (If you do not have a device type named repeater, refer to the "Creating a Device" to create a "Repeater" device with the device type of "Non Display")
- Enter the ID# you wrote down when installing the repeater at this location.
- Click the OK button on the "Add Device" box. (Figure PR5)
- Click the OK button on the "Room Properties" box. (Figure PR5)
- Repeat all the above steps until you have entered all the repeater ID#s for all of the repeater locations.

# **Egress Alarms**



#### General Description

• The system will monitor egress alarms from devices such as a Universal Transmitter (VL965) or a Door/Window Transmitter (VL970). You can program these devices to be "always active" or to only be active during a specific time of day.

#### **Mounting Instructions**

• Place the magnet on the moving surface, like a window or door. The magnet must end up next to either red arrow on the transmitter when the door/window is closed, as shown with the orange arrows in the figures above. The gap should be no more than a 1/4".

#### Programming into the System

- You will first need to create a station. Examples: Doors, Exits, Egress, Ect. (Page 10)
- Then create a Room with "0" beds. Examples: North Exit, Front Door, Stairs Exit, Ect. (Page 11)
- Repeat the above steps until you have created a room for every Egress alarm.
- You must create a "Device Type" for each alarm type that you want to be shown on the system. (Page 59) Examples: Door Bell, Door Alarm, Window Alarm, Exit
- In the station and room list, Double click on the first egress room you created.
- Click on the "Add" button located at the bottom of the Room Properties box. (Figure EG1)
- In the "Add device" box, open the "Device Type" menu and choose your device type for this alarm. (Figure EG2)
- In the "Add device" box, enter the device ID# that is located on the back of the device. (Figure EG2)
- If you want the device to follow a schedule click in the box next to "Egress Follow Schedule". (Figure EG2)
- Next to "Arm" is where you want to set the time of when you want the system to show any alerts from that device. (Figure EG2)
- Use the first column of up and down arrow buttons to change the hour (Time is in Military time) (Figure EG2)
- Use the second column of up and down arrows to change the minutes. (Figure EG2)
- Repeat this step to set the time you would like the system to not show alerts from the device. (Figure EG2)
- Click the OK button when done.



#### VL965-B7 Transmitter Configuration



- The yellow oval in Figure 100 shows the jumper location on the VL 965-B7 transmitter to enable an external battery pack. The VL965-B7 will monitor an external battery if properly wired to the VL965-B7.
- If you wire a device to the VL965-B7 that has no external batteries, install a jumper across both pins. This will stop the VL965-B7 from transmitting an ExLoBat Fault.
- The orange oval shows the reset button which is pushed after installing a new battery into the VL965-B7

#### Jumper Settings

- ON both pins = External Battery Not Connected
- Off both pins = External Battery Connected

# **System Notification**

#### **Creating Paging Groups**

- Click on the Notifications button at the top of the software window.
- Click on the "Recipients" button. (Figure SN1)
- Click on the "Add" Button. (Figure SN2)
- Open the drop down menu next to "Type" and choose "Pager". (Figure SN3)
- In the "Name box type the name of the group. (Figure SN3)
- In the "Pager Cap Code" box type the cap code from the cap code list (Page 79) you would like to use for the new group. (Figure SN3)
- Click the "OK" button. (Figure SN3)
- If you need to add more groups that will receive different calls than the group you already created, repeat the steps above until you have created all your groups.

#### Note: When creating multiple groups, assign each group a different cap code.

• Click the "Close" button. (Figure SN2)

Notifications		Recipients				
		Type Respective Value		Modify recipient	-	
Peoplents	One			Туре	Pager •	
Excelation	Asignet			Name	1st Roor	
Escalation levels	Assign soons to recipients			Pager capcode	100	
Excelution times	Assign maintenance recipients				OK Cancel	
		Add Remove Modity	Close			_
Figure 72	SN1	Figure 73 SN2			Figure 74 SN3	
		_			_	

#### Assign Rooms to Recipients

- Click on the "Assign Rooms to Recipients" button. (Figure SN4)
- Open the drop down menu next to "Level". (Figure SN5)
- Choose at what level you would like the group to receive the pages from the alarms.
  - Paging Escalation Levels:
    - Level 0 First Level: Receives the original page immediately and the recall after the call has been on the system for a set amount of time. (See Setting Escalation Times Page 45)
    - Level 1 Manager Level: Receives a page after a set amount of time after the First Level receives its page. (See Setting Escalation Times Page 45)
    - Level 2 Admin Level: Receives a page after a set amount of time After the Manager Level receives its page. (See Setting Escalation Times Page 45)
- If you have more than one group, choose the group you are going to assign rooms to.
- Open the drop down menu next to "Recipient" and choose the group you are going to assign rooms to. (Figure SN6)
- Open the drop down menu next to "Station" and choose the station that has the rooms you are going to assign to your paging group. (Figure SN7)
- Click on the rooms in the "Unassigned Rooms" (Figure SN8) box and then click on the button with the single arrow (Figure SN9) to move the room to the "Assigned Rooms" Box on the left.







- If you want to assign all the rooms from the station you selected, Click on the double • arrows pointing to the right. (Figure SN10)
- If you have rooms in another station that you want to assign to this pager, Open the drop • down menu next to "Station" and choose the next station that has the rooms you are going to assign to your paging group. (Figure SN7)

Once you are done assigning all the rooms to your paging groups. Click on the "OK" • button. (Figure SN11)

Assign rotems to recipients	Assign rooms to recipients	
Level Ret level Copy Recpert Se Roor, Page  Copy Copy Som Shared advanced a	Lovel (Foctional *)	Cepy
Assignments	Assignments	
Station let Reor +	Station Ist Roor *	
Unassigned Rooms Assigned rooms	Unassigned Rooms	Ant
Reen 101	Roam 102	Re
> Room 103 Room 103	Roam 105	-> 10
Reem 105 Reem 105		
e		
~		
Assignment OX	Assignment report	ок
	]	
Figure SN10	Figure	e SN

#### Setting Escalation Level Times

- Click on the "Escalation Times" button. (Figure SN12) ٠
- This is where you will set the amount of time you want the system to wait before sending • out a page to the next level in line for pages.
- Click on the level you want to adjust the recall time. (Figure SN 13) •
- Click on the up and down arrows to adjust the recall time. (Figure SN13) (Set the time in • seconds)
- Repeat the steps above for each group. •
- You can change the names of the groups, but you can not change the level. •
- You can create as many levels as you want. Remember each level you create gets the • page after the level before it.

Recipients	Close
Escalation Escalation levels	Assignment Assign rooms to recipients
Escalation times	Assign maintenance recipients
Figure	SN12



Example: These following times will be after the original page is received.

Escalatio	Escalation times					
Level	Name	Elapsed Time (seconds)				
0	First level	240 🖛				
1	Manager level	120 🔶				
2	Admin level	120 🗲				

- The "First Level" will receive a page after 4 min of the call being on the system. (Red Arrow)
- The "Manager Level" will receive a page 2 min after the "First Level" receives a page. (Yellow Arrow).
- The "Admin Level" will receive a page 2 min after the "Manager Level" receives a page. (Blue Arrow).
- Click on the "Apply Change" button and then the "Close" button once you are done setting the Escalation Times. Then click on the "Close" button in the "Notifications" box.

#### **Common Notification Settings**

- Click on the Statings button at the top of the VisionLink II Software.
- Click on the "Notification Settings" button. (Figure SN14)
- In the "Notification Settings" box you are able to turn on and off and adjust setting for all notifications. (Figure SN15)

Settings	Notification settings
Zones Device Shifts COM Runs Advan	Common notification settings Voice. Paging Email Text message Telephone. Dome light Mobile app/Windows client
	Send notification on resets
Check-In Locators Codes English-Maskin Hars	Enable escalation 🐨
	Number of first level recalls 1
+ Vice + Para	Enable continuous recall at last level 📝
Netfication Emol etimps Toct message + Telephone	Send bed names 📝
Comit Agre     Mobile app	Number of locations to send 1
Add henove hoddy recipients     Add henove hoddy recipients     Add henove hoddy acatalized levels     Add henove hoddy acatalized levels	Send current escalation level Send level name
Advanced norms in encoderan levels assignments     Mantanance notification	Come OK Cancel
Figure SN14	Figure SN15

See Page 48 for description of each setting.

# Manual Page

#### **General Functionality**

• The manual page function allows the user to send an instant message to any notification device that has been created in the system.

#### To send a Manual Page

- Click on the Message button located at the top of the screen.
- On the left side of the "Send Message" box, click on the group or name you want to send a message to. (Figure MP 1)(Red Arrow)
- If you want to send a message to all groups, click on the box next to "To Everyone" to place a check mark in the box. (Figure MP 1)(Orange Arrow)
- In the box to the right, type the message you would like to send. (Figure MP 1)(Blue Arrow)
- When finished typing the message, click on the "Send" button. (Figure MP 1)
- When finished sending your messages, click on the "Cancel" button to close the "Send Message" box.



# **Reminder**

• The Reminder function allows the user to setup a reminder notice which can be sent to any notification device that has been set up in the system. The reminder will appear on the console in a text message box, audibly annunciate the message at the console or any combination of the three. You may set the date and time of day for the message to notify and mark it as a daily message if needed.

#### Setting a Reminder

- Click on the <sup>Reminders</sup> button at the top of the screen.
- At the bottom of the "Reminders" box, click the "Add" button. (Figure SR1)
- In the "Text" box, type the message you would like to send as the reminder. (Figure SR2)
- In the "Time" box, click on the calendar icon to the right and choose the date you would like to send the reminder. In the box next to the date, use the up and down arrows to set the hour you would like the reminder sent. To change the minutes, click on the minutes and use the arrows to make the adjustments. Do the same steps to adjust the seconds. (Figure SR2)
- If you would like the reminder to be sent out daily, click in the box next to "Repeat Daily". (Figure SR2)
- In The "Send To" box, click in the box next to the choice you would like the reminder sent to. You are able to set the reminder to go to 1,2, or all 3. If you want the reminder to be sent to multiple notification groups you will need to create the reminder again for each group. (Figure SR2)
- When finished click the "OK" button. (Figure SR2)
- When you are finished creating all reminders, click on the "Close" button. (Figure SR3)

Reminders 🗾	Reminder
	Text Meeting Wednesday at 9:00am
	Time Wednesday, May 03, 2017
	Send to
	Recipient Ist Roor, Pager
Add Modify Remove Close	Screen
	Voice
Figure SR1	OK Cancel
Reminders	
Meeting Wednesday at 9:00am	Figure SR2
	Figure SR3
Add Modify Remove Close	

#### **Description of Notification Settings**

#### • Send Notification on Resets

With a check mark in this box, you are telling the system to send out a the first notification information along with the word "Reset" letting everyone who got the original page know that the call has been answered.

#### o Enable Escalation

With a check mark in this box, you are telling the system to escalate the call after the first page. (See Paging Escalation Levels Page 45)

#### • Number of First Level Recalls

This setting tells the system how many times to send the call on the screen to the original paging group.

#### • Enable Continuous Recall at Last Level

With a check mark in this box, you are telling the system to keep sending a notification until the call is answered and cleared from the system.

#### o Send Bed Names

With a check mark in this box, you are telling the system to send what bed number the call came from within a room if the device is programmed into the "Details" of a room.

#### • Number of Locations to Send

This setting tells the system how many Locations to send out to the notification devices.

#### • Send Current Escalation Level

- This setting will send out to the notification device at what level it has reached in the escalation process. You have three choices to choose from.
  - **Do not send:** The system will not send any information as to how many times it has sent the notification.
  - Send Level Number: The system will send out the number of what level the escalation has reached with the alarm on the screen.
  - Send Level Name: The system will send out the name of what level the escalation has reached with the alarm on the screen.

# **Notification Devices**

#### VL182-WAV



#### **General Description**

• With the VL182-WAV paging transmitter connected to the *VisionLink II*, system alarm calls can be sent to pocket pagers (VL715 series). This is local area paging meant to provide coverage on the facility grounds only. These alarms will display the room name and device type on the pocket pager. Escalation is available so that if the alarm stays on the screen for a pre-determined time the call can be sent either to the same group of pagers or a new group of pagers (Setting Escalation Level Times. Page 45)

#### **Understanding How Paging Works**

• The VL182-WAV comes pre-programmed with 50 cap codes. A list of these cap codes are provided with the transmitter and are also listed on page 44. Cap codes identify what pager(s) will receive the information from the paging transmitter. When a message is sent to Cap Code 100 (1998800) it will be received by all pagers programmed with this cap code. Each group of pagers must be setup and programmed with their cap codes within the program (see "Apollo Gold Programming Instructions" on 45). Once they are setup you can add them into the system software. Any groups created in the software may have rooms assigned to them. Escalation may be setup to have calls repeat to the pagers if the call remains on the screen after a preset number of minutes.

See Page 44 through 48 for VL182-WAV programming and use.

#### VL3325 SDACT Central Station Alarm Monitoring Interface



#### **General Description**

#### Note: The VL3325 SDACT requires dedicated analog phone lines.

• The VL3325 is an external device connected to the VisionLink II console and sends alarm information to a remote monitoring station via an analog telephone line(s). It can be used in conjunction with or in place of local area pocket paging. Your dialer has been tested prior to shipment. If the phone number and account information to your Central Receiving Center was provided upon placing your order it has already been programmed into the VL3325. After system set up you will need to test the system to make sure the settings are correct. If you need help making changes, please contact SystemsTechnologies technical support.

#### Wiring/Connection Instructions

- A power supply, M-F serial cable, and two RJ-45 phone cables are included with the VL3325.
- Figure SD1 shows a wiring diagram for cable connections. The serial M-F cable will connect from the VL2600 computer (paging port COM 4) to the back of the VL3325 dialer.
- The power supply has two parts; connect the two parts at the transformer (3-pin connector), connect the smaller end of this power cable to the back of the dialer where it is labeled POWER and the other end to the UPS battery back up.
- Two communication cables have been provided and there are two Line outputs, 1 & 2. If you have a primary and secondary phone line available, connect one cable to the Line 1 output and the other cable to the Line 2 output of the VL3325. If you only have one line available connect only one of the cables provided to the Line 1 output on the VL3325. Connect the other end of the communication cable(s) to your RJ31X phone jack. These phone lines are <u>required</u> to be dedicated analog lines. If only one line is to be used the VL3325 will need to be programmed for one line only.









- Figure SD2 Using 2 of Figure SD3 and 1 of Figure SD4 shows a wiring diagram for cable connections if the VL3325 is to be used in conjunction with another notification system. (VL182-WAV Paging Transmitter)
- Connect one end of the Null Modem cable to COM 4 on the VL2600.
- Connect the other end of the Null Modem cable to the "To Modem" position on the "Modem Data Splitter" (Figure SD4).
- Connect one of the "Null Modem Adapter" (Figure SD3) to one of the ends on the "Modem Data Splitter" (Figure SD4).
- Connect the other "Null Modem Adapter" (Figure SD3) to the other end on the "Modem Data Splitter" (Figure SD4).
- Connect the serial cable for the VL3325 to one side of the "Modem Data Splitter" (Figure SD4) that you just connected a "Null Modem Adapter" (Figure SD3) to and connect the other end of the serial cable to the VL3325. (Figure SD2)
- Connect the serial cable for the VL182-WAV to the other side of the "Modem Data Splitter" (Figure SD4) that you just connected a "Null Modem Adapter" (Figure SD3) to and connect the other end of the serial cable to the VL182-WAV. (Figure SD2)

#### Programming the VL2600 System for use with VL3325 SDACT dialer

- All room names programmed into the VisionLink II console that need to be sent by the VL3325 need to have a # symbol directly preceding a three or four digit room number.
   There can not be a space between the # character and the three or four digit room number. Example: Room 101 would be programmed into the system as Room #101. You must put a space between the last letter of room and the #. (Figure SD5)
- You may add other information before or after this such as "Room #101 Betty May" as long as the #101 has **no spaces** in it. There must be a space after Room and a space after #101.
- **NOTE**: For help creating room names into the system see page 10 Creating Room Names.
- After creating all the room names you will need to create a pager group name such as "Dialer" and give it a cap code of 800. (See "<u>Creating Notification Groups"</u> page 43).
- Then assign all the rooms to the "Dialer" pager that you would like to notify the clearing house when a device is alarmed from that room. (See "Assign Rooms to Recipients" Page 44).



## VL3345 Cellular Phone Interface



VL3345

#### **General Description**

 The VL3345 Cellular Phone Interface provides text messaging of alarm notification to cellular telephones. The VL3345-SIM Cellular Phone Interface is requires a 3G GPRS SIMM card. The VL3345-SIM works with any cell provider that uses a 3G SIMM card, AT&T being the most common.

Note: 4G SIMM cards will not work with this device. Verizon SIMM cards will not work with the VL3345. The Verizon Modem Part Number is VL3345-2 (See Page ).

#### Wiring/Connection Instructions

- You will need to purchase and activate a <u>3G SIMM</u> card (with unlimited text messaging) from any cell phone provider except Verizon.
- Remove the SIMM card from the holder. (Figure CP1)
- Slide your activated cell phone SIMM card (Gold Chip Down) into the slot as pictured on the VL3345 modem. The slanted end goes in first. (Figure CP2)(Red Square).
- Push the SIMM card all the way in until it stops. (Figure CP3)
- Using your fingernail push the SIMM card all the way in until you hear a clicking sound and the end of the SIMM card is now flush with the edge of the modem. (Figure CP4)



- Connect the male end of the provided serial cable to the VL3345. (Figure CP2).
- Connect the female end of the provided serial cable to an open COM port on the VL2600. (Figure 1) on Page 5.
- Connect the provided antenna to the modem by screwing it onto the gold ANT jack on the VL3345. (Figure CP2)
- Connect the provided power cable to the modem by screwing it into the POWER jack. (Figure CP2)
- If the above instructions were followed properly and the VL3345 has enough signal. (Check the signal bars on the front of the modem) the LS light will blink slowly after the initial startup.

#### A solid LS light means that there is not enough signal or the SIMM card is not activated

#### **Creating Cell Phone Notification**

- Within the VisionLink II software you will have to create a name for each cell phone number you want the system to notify. Cellular messaging setup is the same as paging.
- Click on the **I** Notifications button at the top of the software program.
- Click on the "Recipients" button. (Figure CP5)
- Click on the "Add" Button. (Figure CP6)

Notifications	Recipients	×
Recipients Cose	Type Recipient name Value Poger 1st Roor 100	
Escalation Escalation levels Escalation times Escalation times Assign maintenance recipients	Add Remove Modfy Close	
Figure CP5	Figure CP6	

- Open the drop down menu next to "Type" and choose "SMS". (Figure CP7)
- In the "Name" box type the name that the cell phone belongs to. (Figure CP7)
- In the "Mobile Number" box type the 10 digit cell phone number. Area code and number only with no spaces. (Figure CP7)
- Click the "OK" button. (Figure CP7)

Figure CP7

	Add recipient	
)	Туре	SMS 🔹
	Name	Philip
	Mobile number	1235551212
	-	OK Cancel

- To add more recipients repeat the above steps.
- Click the "Close" button when you have added all the cell phone recipients. (Figure CP8)
- You will need to assign rooms to each of the cell phones. (See Assign Rooms to Recipients) Page 44.
- Click the "Close" button when finished assigning the rooms to the cell phones. (Figure CP9)

Recipients		Notifications
Type Pager SMS	Recipient name         Value           1st Roor         100           Philip         1235551212	Recipients Cose
	Add Remove Modify Close	Escalation  Escalation levels  Escalation times  Assign maintenance recipients
	Figure CP8	Figure CP9

## **E-Mail Notification**

#### **General Description**

• E-Mail notification allows an e-mail to be sent to any email address that is programmed into the system when an alarm is received by the system. You can set up Email addresses to be notified after escalation or on the initial alarm. The email will contain the same information that is sent out to any other notification device.

#### Programming the System for E-Mail Notification

- Click on the Statings button at the top of the VisionLink II Software.
- Click on the "Notification Settings" button. (Figure EM1)

Settings										
Zones De ty	NOS SNEA	COM Para	Advanced settings							
Overkin Lo	catom Codes	Enable-Ideable features	Hore advanced settings							
Notification Netification	Notification  Value  Value Value Value  Value Value Value Value Value Value Value Value Value Value Value Value Value Value Valu									
Add menore modify acciliation inveit     assignment     Add menore modify     Core										
	Figure									

• Click on the "Email" Tab. (Figure EM2)

Common notification settings	Voice Paging En	Text message	Telephone	Dome light	Mobile app/Windows client	
Enable email	Email server address	mail.wirelessnursed	all.com			
Content in subject	Email server por	rt 25 🌲				
	From (Name	e) VisionLink II				
	From (Address	s) demo@wirelessnur	secall.com			
	Username	e demo@wirelessnur	secall.com			
	Password					
		Use SSL				
OK Cancel						

- With in the Email tab you will be able to set up the system to use Email as a notification device. (Figure EM2)
  - $\circ$  The descriptions below will describe what each box is for and how to enter the information.
    - Enable Email
      - With a check mark in this box, you are telling the system to use Email notification.

#### • Content in Subject Line

• With a check mark in this box, you are telling the system to put the alarm information in the subject line of the Email notification.

#### Email Server Address

• You will enter the server address that will be used to send out the Email notifications.

#### Email Server Port

- It is set at 25, if you do not know what port to use, leave this at 25. If you know that your server is using a different port you can change the port number.
- From (Name)
  - This is the name that will be used as to identify who the Email came from.

#### From (Address)

- This is the Email address that is on your email server and will be used to send the Email notification from.
- User Name
  - If your server requires a user name to log into your Email server, enter the User Name here.
- Password
  - If your Email server requires a user name and password you will enter the password here.
- Use SSL
  - o Leave this box check marked unless your Email server does not allow SSL.

#### **Creating Email Notification**

- Within the VisionLink II software you will have to create a name for each Email address you wish to receive an Email notification.
- Click on the **I** Notifications button at the top of the software window.
- Click on the "Recipients" button. (Figure EM3)
- Click on the "Add" Button. (Figure EM4)
- Click on the drop down menu next to "Type" and choose "Email". (Figure EM5)
- Type the name of the recipient in the "Name" box. (Figure EM5)
- Type the Email address that will be receiving the notification. (Figure EM5)
- Repeat the above steps until you have entered all the Email recipients.
- Click the "Close" button on the "Recipients" window. (Figure EM6).
- You will need to assign rooms to each of the Email recipients.(See Assign Rooms to Recipients on Page 44)

		Recipients		
		Type	Recipient name	Value
Recipients	Close	Pager	1st Roor	100
Escalation	Assignment			
Escalation levels	Assign rooms to recipients			
Escalation times	Assign maintenance recipients			
Figure	EM3	-	Add Remove	Modify
			Figure	e EM4
	×	Recipients		
ripient		Recipients	Perintertore	10
ipient		Recipients Type Paper	Recipient name	Val.
ient ▶ Type Email	•	Recipients Type Pager SMS	Recipient name 1st Roor Philip	Val. 100 1235

	Figure EM5			[	Figur	e EM6	
	OK Cancel		~	ы	Remove	Modify	Close
address	Philp@wirelesanursecal.com	L					
Name	Philip						

# **Telephone Notification**

#### General Description

• Telephone notification allows any phone number to be dialed by the system and notify the staff member of an alarm with a preset notification on the system. The standard notification that the system will read over the phone is "This is a notification from your Vision Pro alarm system", after the system reads that line, the system will read the room number, device, Resident Name (if programmed into the system), and location (if using one of the location systems). This can be set up either to receive the call on the initial alarm or on any escalation level.

#### Programming the System for Telephone use

- Click on the Settings button at the top of the VisionLink II Software.
- Click on the "Notifications Settings" button. (Figure PH1)
- Click on the "Telephone" tab at the top. (Figure PH2)

Settings III	Notification settings
Zones Device Stats COM Para Advanced settings	Common motification settings Voice Paging Email Text message Telephone Dome light Mobile app/Windows client
Overkrin Locaton Codes Enable-Vaultie Have advanced settings	Convertine     Acure time     A
Notification  Visce  Paging  Visce  Paging  Pomissione  Pomissione  Paging  Pomissione  Pomissione  Paging  Pomissione  Pomissione Pomissione Pomissione Pomissione Pomissione Pomissione Pomissio	Cal until answered Start 13 10 10 10 10 Fing court 5 10 Preface This is an emergency notification from your Vision Pro alarm system
Pecternin     excitation and     excitation in the statistical intervence of the statistintervence of the statistical int	OK Cercel

- Click in the box next to "Enable Telephone" to place a check mark. (Figure PH3)
- Use the up and down arrows next to "Ring Count" to choose how many times the system will let the call ring before hanging up and trying again or moving onto the next phone number. (Figure PH3)
- In the "Preface" box, enter the wording as to what you would like the system to communicate when someone answers the phone. You can leave the default that is in the box already. (Figure PH3)
- If you would like the system to recall the same number if there is no answer, click in the box next to "Recall on no answer".
- If you have multiple phone numbers you would like notified, click in the box next to "Call until answered".

- In the "Active Time" box, you can choose to have the system call the programmed phone numbers anytime an alarm is received or to only have the system call during set times. (Figure PH4)
- If you would like to set times for calls to be placed when an alarm is received, click on the box next to "Only Active During the Period Below" placing a check mark in the box. (Figure PH4)
- Use the up and down arrows next to "Start" to set the time you would like the system to start placing calls when an alarm is received. (Time is set by a 24 hr clock setting) (Figure PH4)
- Use the up and down arrows next to "End" to set the time you would like the system to stop placing calls when an alarm is received. (Time is set by a 24 hr clock setting) (Figure PH4)
- Click the "OK" button when completed.
- Click on the "Close" button on the "Settings" window.

Common notification settings Columna in no-snower Columnia answered Ring court 5	
	Fed message   Telephone   Dome light   Mobile app/Windows client
	u-fran
Coll unit answerd  Preface  This is an emergency mitflication from your	ve during the period below
Preface       This is an emergency notification from your         Preface       This is an emergency notification from your         OK       Fig         Common notification settings       Voice       Paging         Enable telephone       Precal on no-answer       ON role you         Call untl answered       Precal on To-answer       On you         Fring court       5 Image       This is an emergency notification from your         Preface       This is an emergency notification from your       OK	Start 19 * :0 *
Preface This is an emergency notification from your	
OK         Uffication settings         Uffication settings         Common notification settings         Voice       Paging         Enable telephone         Precal on no-answer         Call until answered         Ring court         Freface         This is an emergency notification from your         OK	Valori Pro-alarm zystem
Common motification settings	
Common notification settings	
Fig iffortion settings Common notification settings Voice Paging Enail © Brable telephone © Recall on no-snaver © Call until answered Ring court 5 © Preface This is an emergency notification from your OK	Cancel
Common notification settings Voice Paging Breat	
Finable telephone     Recall on no-ensiver     Call until answerd      Ring count 5 0      Reface This is an emergency notification from your      OK	Telephone Dome light Nobile app/Windows client
Preface This is an emergency notification from your	réine .
Cal until answered Ring court 5 10 Preface This is an emergency notification from your	ve during the period below
Ring court 5 🐨 Preface This is an emergency notification from your OK	Start 20 💠 : 30 💠
Preface This is an emergency notification from your	Evil 8 (A) (00 (A)
ок	End 8 👾 : 00 🔯
ок	Find 8 🔅 : 00 💿
	End 8 \ominus : 00 🔁
	End 8 🐏 : 00 😥 Vacon Pro alarm system

# **Creating a Device Type**

- To create a device type click on "Tools" (Figure CD1)
- Click on "Device Types" (Figure CD2)
- Click on the "Add" Button (Figure CD3)
- Type the name you would like to be listed on the screen and on your notification devices when the station is activated. (Bathroom, Shower, Living Room, Etc) (Figure CD4)
- Open the Priority drop down box and choose the priority type for the type of station you are creating and click OK. (Figure CD4)
- When done creating your device types, Click on the "Close" button. (Figure CD5)

😯 VisionLink II	😯 VisionLink I	Π	Device types	
File Tools Help	rts 🕵 📑 p 🗭 [	Help Device Types Users	Show built-in device types	
Search by names or IDs		Users Users Joers Joers Users Users Users Users Time Date Time Date Time Notifications Settings Tests Maintenance	Additional device types Type Name Priority Ligh Add Modify	t Rashing Color
Figure CD1		Figure CD2	Figure CI	)3
Device Type		Device types		×
Type name	Shower	Show built-in device	e types	
Priority	Emergency			
Light	Follow priority	Additional device	ce types	
Flashing		Type Name	Priority Light Flashing	Color
Fault window	Use global fault window     Use custom fault window     Z4	Shower 1 Living Room 1	Emergency 1	
	Custom color     Pick color      OK     Cancel	Add	Modify Remove	Close
	Figure CD4		Figure CD5	

### **Reports**

#### General Description

• Statistical Call Analysis is a useful tool to quickly determine call activity for a transmitter. The report generated is called an SCA Report.

#### **Reports Choices**

0

• Below is a description of each button located in the "General Reports" box.

 In this report, you will be able to search past calls by "Station", "Room", and a chosen date(s).

O All events combined

Calls

 In this report, you will be able to do the same reports as the "Calls" button. You will have an additional search parameter that you will be able to choose from. The "Event Type" will now have a drop down menu that will let you choose what event you are looking for.

O Faults

- In this report, you will be able to search for any faults of devices by "Station", "Room", and a chosen date(s).
- O Low batteries
  - In this report, you will be able to search for any past low battery faults of any devices by "Station", "Room", and a chosen date(s).

#### Using the Reports

- Click on the Reports button located at the top of the screen.
- You will only be able to access the reports located in the "General Reports" and "Others" box unless you purchase the "Advanced Reports".
- Click on a button in the "General Reports" for the report you would like to run. (Figure R1)
- All the reports have the same choices to search by accept the "All Events Combined".



- If you would like to search by a certain "Station" or "Room", open the drop down menus and click on the choices you would like to search by. (Figure R2)
- Choose the date(s) you would like to sort by. Click on the calendar next to the "From" date and choose your starting date. Click on the calendar next to the "To" date and choose the stop date.
- When finished choosing your parameters, Click on the "Update Report" button.
- You will now see any information that is available with in your search parameters.
- Below each column name there is a "Sort" box with up and down arrows. This allows you to sort the information of each column either ascending or descending.

Past Events		-		-		_			and the local division of the local division							
Station 1s	t Floor		•	Roc	om All		•		Event type All		• T	o room elap	osed time >=	0	second	ls
From 4	/ 1/20	17	•	] ;	Го 4/27/2017		•	Respon	ding person Al		•	Actions	taken Al			
4 1	of 7	▶ <b>)</b>   ∉	×	۵	a 🗆 🖬 🖪	1009	6	•		Find   Next						
								Pas	st Ever	nts						
4/27/20	17 1:4	7:40 PM			Total ev	ents: 193		Avera	ge to-room e	lapsed time:	29:29		Highest to	-room ela	psed t	ime: 41:06:14
Date Time		Room		Bed	Device type	Device ID	Ev	vent Type	Responded Person	Response Status	To Room Elapsed Time	ln Room Elapsed Time	Take To Arrive Elapsed Time	Actions	No	te
Sort	¢	Sort	4		Sort ⊜	Sort	⊜ So	ort ⊜	Sort ⊜	Sort ⇔	Sort ⊜	Sort ⊜	Sort ⇔	Sort	⇔ So	irt 🔶
4/7// 8:27:1	2017 8 AM	Room #100		1	Locking pendant	12	34 Ca	all		Completed	41:18	00:00	00:00			
4/11/2 2:18:5	2017 2 PM	Room #100		1	Locking pendant	12	34 Fa	ault	Philip	Completed	4:45:19	00:00	00:04			
4/11/2 7:04:1	2017 2 PM	Room #100		1	Locking pendant	12	34 Fa	ault	Philip	Completed	41:06:14	00:00	00:03			
4/12/2 1:44:2	2017 2 PM	Room #100			Pull Station	458	97 Fa	ault	Philip	Completed	22:25:50	00:00	00:02			
4/12/2 1:44:2	2017 2 PM	Room #100			Shower	789	45 Fa	ault	Philip	Completed	22:25:31	00:00	00:04			
4/13/2 12:10:2	2017 7 PM	Room #100		1	Locking pendant	12	34 Fa	ault	Philip	Completed	02:00	00:00	00:03			
4/13/2 12:12:2	2017 7 PM	Room #100		1	Locking	12	34 Fa	ault	Philip	Completed	03:41	00:00	02:23			

Figure R2

- When you click on the "All Events Combined" button you will have the same choices as the other reports.
- In this report you can open the drop down menu next to "Event Type" and choose what event you would like to search for. (Figure R3)

Past Events	_			
Station All 💌	Room All	Event type All     All	To room elapsed time >= 0 🚖 secc	unds
From 4/27/2017	To 4/27/2017	Responding person LOW battery LOW external battery LQI Fault RSSI Fault	V Actions taken All	- I I I I I I I I I I I I I I I I I I I
4 1 of 1 ▶ ▶    ← ⊛	🚱   🚔 🗐 🛍 💐 -   100%	Bed tum Check-in		
4/27/2017 1:49:44 PM	Total events: 0	Past Everage to-room elapsed time:	; 00:00 Highest to-room elap	sed time: 00:00
Date Time Room E	Bed Device Device type ID	Event Type Responded Response Person Status	To In Take To Actions Room Room Arrive Elapsed Elapsed Time Time	Note
Sort ⇔ Sort ⇔	Sort ⇔ Sort ⇔	⇒ Sort ⇔ Sort ⇔	Sort ⇔ Sort ⇔ Sort ⇔	Sort ⇔
Page 1 Total pages:	:1			

- Figure R3
- When you have completed your search, you can print, change Layout, make changes to the Page Setup, or export your report to a chosen format.
  - **Red Arrow** This button will open the print dialog for you to select the printer and then print.
  - **Blue Arrow** This button will show you the print lay out.
  - **Orange Arrow** This button will allow you to make changes to the page setup (Page sizes, Portrait-Landscape, Margins...)
  - Yellow Arrow This button will allow you to choose a file format to save the report to and where to save this file.

	Fi	rom	4/ 1	/2017		То	4/27/20	)17		Respondin	ig person	All	•
						1	++	<b>₽</b>					
M	4	1	of	1 🕨	₩   ♦ @	) 🕲   🏟	i 📋 🛍	🔍 - 🛛 1	.00%	-		Find   Next	
								Exc	el				
								PD	F	Past	t Eve	ents	
								Wo	ord				

# **Apollo Pager Programming Instructions**

Yellow Circle – Scroll Buttons Red Circle – Select Button Blue Circle – Read Button



#### To program the pager

- Remove the battery cover and battery and hold down the <u>Select button.</u>
- Insert the battery and continue to hold the <u>Select button</u> until "password" is shown in the display. The default password is 0000.
- Press the <u>Read button</u> to advance to the Frequency screen. You may change the frequency by using the <u>Scroll buttons</u> and the <u>Select button</u> as needed.
  - $\circ$   $\;$  The default frequency is 467.8000 and should remain at that frequency.
- Press the <u>Read button</u> to advance to the "Cap Code" screen. The first Cap Code should be "on". The default first Cap Code is 1998800. With four "A" at the far right.
  - If you need to change the Cap Code or the characters at the far right use the <u>Scroll</u> <u>buttons</u> and the <u>Select button</u> as needed.
- Once Cap Code 1 is complete press the <u>Read button</u> to advance to Cap Code 2. The second Cap Code is optional and may be programmed to "off".
  - To program the second Cap Code make sure it is "on" by pressing the <u>Select</u> <u>button</u> while the "off" is flashing and change the Cap Code as needed including the four "A" at the far right using the <u>Scroll buttons</u> and the <u>Select button</u>. Press the <u>Read button</u> after setting the correct Cap Code. Continue through all six Cap Code s in this manner.
- Next is the "Baud" screen. The default baud rate is "512". This may be changed as needed by using the <u>Select button</u>. Press the <u>Read button</u>.
- The next screen is "Modify Password". It is not recommended to change the password from the default setting of "0000".
- Press the <u>Read Button</u> to move to the next screen which is "Adjust Contrast". The default setting is "4". Use the Select button to change this setting. Press the <u>Read Button</u> to finish the pager configuration.
- The word "pass" should be temporarily displayed with an audible "beep".
- Remove the battery and after a few seconds insert the battery back into the pager. The pager will restart into the default screen, the date and time may need to be set.

#### Apollo Pager Use Simplified

- Apollo Gold pagers have 4 buttons used to access messages and all of the other options available on the pager. The buttons are the Left Arrow, Right Arrow, Middle Button (Pause button, has two vertical lines on it like a remote pause button), and the Power Button (biggest button, far right of pager, has a circle and a line on it).
- **To read calls** that are received on the Apollo Gold Pagers, press on the Power Button (big button) on the right hand side of the pager. Once that button is pressed the latest message received by the pager will be shown on the screen.
- **To scroll through pages** that have been received press the Power Button to make the pager display the pages received and then use the Left or Right Arrow buttons to move through the messages. Each message will show what alarm was displayed on the computer when the call came in, the date and the time, and it will also have a number by it that designates which message it is. Each pager can hold about 20 messages before it will start deleting and replacing the oldest messages.
- To keep confusion of the messages to a minimum it is a good idea to delete the messages from the pager after they have been viewed. A new message on the pager is shown by an upward facing arrow on the upper left part of the LCD display. When the arrow shows up use the Power Button to make the message appear so you can read the message. After the message has been read hit the Power Button again to go to the date and time screen. On this screen you then push the Middle (Pause) Button and it will bring up a row of icons along the bottom of the screen. The first one that blinks will be an up arrow and will say up or escape. Press the Right Arrow and that will take you to an X on the right hand side that will say Delete All. Press the Middle (Pause) button when on the X and it will take you to a screen that says Delete All?. When you see that press the Right Arrow. The pager will beep and will go back to the date and time screen. Any messages that have not been read will remain on the pager so be sure to look through all of the message before deleting.
- There are 2 other options that you may want to use on the pager. They are Set Time and Set Alert. When the pager is on a blank screen, press any button once to get to the date and time screen. Press the Middle (Pause) Button once to reach the screen that shows the row of icons along the bottom of the screen. Use the Left or Right Arrow to move through the icons to reach the option you wish to use. When setting time you use the arrow buttons to navigate left and right through the numbers, the Middle Button to change the numbers and the Power Button sets the time when everything is correct. One warning, while setting time and date and a call comes in, any work that you have accomplished resetting the time and date will be lost as the call always takes precedence. The Set Alert option will allow you to choose between different sounds, songs, vibrate, and mute. Use the Left and Right Arrows to choose the sound, the Middle (Pause) Button moves down through the options, and the Power Button sets the selected option.

# **System Maintenance**

#### **Introduction**

• The following section provides a brief description as well as recommended preventive maintenance instructions. Also included is general information on user serviceable parts for your VL2600 system and accessories. Many of the parts listed below are optional and may not be included with your system. Optional parts are indicated with an \* after the part number.

Part Number	Operation/Maintenance/Replacement Instructions
VL2600	The VL2600 VisionLink Video Display Console PC is the master station and includes a VL105 receiver, keyboard, mouse, UPS, VisionLink II software and manual. The monitor with built in speakers is sold separately. All alarms are visually displayed at the console. Audible tone annunciation is provided through the speakers. Available verbal annunciation is also available through the speakers when two way radio is enabled. Peripheral devices such as the VL175 Dome Light Controller, VL182-WAV Paging Transmitter and the VL175-WD are also controlled by the VL2600 Console. The console should be placed in a dust free environment and on solid footing. Do not place console in an enclosure without air circulation. Console should be connected directly into the <i>Battery Backup</i> provided with your system. Suggested maintenance for the console should be on an annual schedule. During the first year of operation do not open the casing of the console as it has a "Warranty Void" sticker on it. If you have an extended warranty period, call Systems Technologies for instructions after 1 year to open the casing. After each year of operation, the inside of the computer console should be blown out using static free compressed air such as GC Electrics "Air jet". The console should be shut down before cleaning. You may use a damp rag to clean the outside of the console as needed including the keyboard & mouse.
VL105	Mount the receiver as high as possible at least 6' from the floor. The VL105 receiver should be connected to COM 1 serial port on the VL2600 using the provided cable. It is powered by an external transformer which should be connected to the Surge Protection + Battery Back-up side of the UPS. The VL105 receiver requires no general maintenance. If the receiver has a maintenance issue, it must be sent back to SystemsTechnologies for repair.
VI 182	Mount the paging transmitter as high as possible at least 6' from the floor
	The VL182 paging transmitter should be connected to COM 4 serial port on the VL2600 using the provided cable. The paging transmitter will send pages when an alarm occurs on the VL2600. VL182-WAV requires no general maintenance. If the VL182-WAV has a maintenance issue, it must be sent back to SystemsTechnologies for repair. <b>Do not operate the VL182 without the antenna attached as that can</b> <b>cause the transmitter to fail.</b>

VL175 *	The VL175 Dome Light Control Unit/Power Supply should be connected to COM 3 serial port on the VL2600 using the provided cable. The output of the control unit provides power to dome lights, zone lights, and duty stations. When a call is placed on the console, information is sent to the controller, and then activates the lights associated with that alarm. Resets are accomplished in the same manner to de-activate the light. Watchdog should be enabled in Options of the VisionLink II software, as the VL175 includes the VL175-WD inside. The control unit provides four 24VDC outputs. The output short indicator will illuminate when there is a short in one or more of these outputs or upon applying power to the controller. Use the Reset Button on the front of the control unit after the short has been isolated and eliminated or after applying power to the unit. The fuse for the control unit provides protection from surges through the 110VAC input to the unit. External fuse may be replaced by a 3AG 1amp Slo Blo inline fuse (unplug unit from AC input prior to removal of fuse). <b>Do not open unit. If you have a problem with the Control Unit, call your dealer or SystemsTechnologies for technical support.</b>
VL175-WD *	The watchdog unit monitors the console for system failures. If the system stops communicating with the VL175-WD. The Watch Dog will start an audible alarm sound to let you know there is a problem with the system. The VL175-WD connects to the VL2600 in COM 3 if a VL175 is not being used using the provided serial cable and Watch Dog should be enabled in Options of the VisionLink II software.
VL327 *	Dome/Zone Lights mount onto a two-gang mud ring or back box, usually over a resident door or onto the ceiling. Dome/Zone Lights flash a white light for emergency calls, and a steady white light for normal calls. Each device is required to be connected to the Controller/Power Supply via two conductor, twisted, 18AWG wire in parallel. Please call your dealer for any other replacement parts.
VL535-N & VL535-W *	Pendant devices are mobile devices. They are generally associated with a particular resident or caretaker and carried on their person. The VL535 series pendant may be used as a latching device forcing the staff to reset at the pendant. It may also be used as a persistent alarm allowing a reset at the console. Each pendant has a Red LED indicator that flashes when it is activated or and Green LED that flashes when reset. A pendant is low maintenance equipment that is fully supervised for low battery conditions and activity. The pendants use a CR2450 Lithium 3volt coin cell battery. When replacing the battery, remove the old battery and let the pendant set for 2 min minutes. Then insert the new battery and verify by seeing if the LED starts to blink and then stops.

VL155-1 & VL155-2 *	The single and dual Bed Stations have an LED indicator which will illuminate when the station is activated. Two ways to activate the station are by pressing the call cord button <u>or</u> by removing the call cord from the station. Once activated, you will need to reset the call by pressing the black reset button below the LED indicator and holding for 3-5 seconds until the indicator goes out. The VL155-1 single Bed Station has a jack at the bottom of the faceplate and that corresponds to the ID on the transmitter. The VL155-2 dual Bed Station has two jacks, the jack at the bottom corresponds to the ID on the transmitter ID plus 1.
VL160-EM, VL170-EM	Each VL160-EM or VL170-EM Series Emergency Pull Station has a 48"
Series	pull string for easy activation along with a slide switch. Activate by pulling the string until the slide moves down or manually moving the slide down. A red LED will begin blinking to indicate the station is in alarm. Reset by pushing the slide back up into the up position and the LED indicator light will stop blinking. The VL160-4 has an added "check-in" button for the resident check-in feature.
VL135	The VL135 Repeater is used in areas away from the main console to send signals from the wireless devices in those areas to the main
	console. The VL135 Repeater is supervised for function and the console
	can be programmed to monitor the function. A non-functioning repeater
	will show as a fault on the console screen. The VL135 Repeater is
	powered by a 12VAC 20v power supply that is provided. Weatherproof
	or Battery backup variations are available.

# **Troubleshooting**

#### Types of Faults

#### LoBat

- This is initiated when the transmitter battery reaches low battery thresholds or lower.
- Fault
  - Faults will show up on the console screen in pink if a device does not report to the VisionLink II software within the fault window. (Figure F1)

#### **Causes for Faults**

- Device programming may be incorrect the ID of the device is programmed into the software incorrectly.
- The device may be too far away from the console or nearest repeater (pendants may be taken from facility on trips or emergencies).
- Battery in the device has failed or died. A LoBat fault will appear when a device reaches the low battery state. The battery should be replaced as soon as possible before battery is too depleted to power the device.
- A repeater for an area may be down (unplugged or turned off for some reason). Not all devices in the area of a down repeater may be affected as some device may be able to make it to another repeater or console.
- A device has failed. Devices can fail due to moisture, electrical surges, or other environmental factors.

#### Locating and Testing Devices

Date Time	State	Туре	Room	Bed
4/27/2017 3:35:11 PM	Fault	Bed Station	Room #100	1
	Figu	ıre F1		

- All the information you will need to find the device in question will be listed in the line (Figure F1) or you can click on the line with the fault and it will open an "Event Details" window. This window shows all the information you will need to locate the device. (Figure F2)
- This will allow you to find the device and follow the testing procedures listed on the following pages.

Date Time	4/27/2017 4:51:04 PM	Device type	Bed Station	
State	Fault	Room	Room #100	
Bed	1	Occupant		
Phone		Location		
	2	Past Locations		
Response	Wating			
	Baps	sed time: 0 m	inute 28 seconds	
	Reset		Close	

Figure F2
-----------

- Click on the line with the fault it will open an "Event Details" window. (Figure F2)
- Click on the "Reset" button once you have tested the device and corrected the problem. (Figure F2)
## **Trouble Shooting Device Faults**

- 1. If you have a device and do not know where it is programmed into the system. You can use the "Search by Names or ID#s" box located above the Station and Room list. (Figure TS1).
- 2. After you enter the search information the Station and Rooms list will change to show you were the item is programmed in. (Figure TS2)
- 3. If the information you tried to search for does not exist in the program the Station and Rooms list will show nothing listed. (Figure TS3)

Print 🔛 View 📒	Repo Print 🔛 View 🗐 Repo	Print 🔛 View 📗 Repo
Search by names or IDs          Ist Floor         Ist Floor         Room #100         Ist Floor         Ist Floor <th>516 516 Som #102 1st Floor Room #102 #1 Philip C</th> <th>12348</th>	516 516 Som #102 1st Floor Room #102 #1 Philip C	12348
Figure TS1	Figure TS2	Figure TS3

- 4. Find the device in fault. (Page 70 Locating and Testing Devices)
- 5. Activate the device and check the system to see if the alarm appears on the monitor.
- 6. If the device alarm shows on the system, (If the alarm does not show, go to step 9) verify the fault information with the alarm information and make sure you are testing the correct device.
- 7. If you have tested the correct device and it is working. Click on the line with the fault and it will open an "Event Details" window. (Figure F2) Click on the "Reset" button.
- 8. If the fault appears again in 24 hours and you test the station again and it is working. Contact SystemsTechnologies technical support for further trouble shooting.
- 9. If the alarm does not show on the monitor after activating the device, replace the battery with a new one and make sure to press the reset button on the circuit board close to the battery. (White casing with black button)
- 10. Activate the device, watch to see if the LED lights up or starts blinking (If the LED does not light up or start to blink verify the battery(s) and then contact SystemsTechnologies Technical Support). Check the system to see if the alarm appears on the monitor.
- 11. If the alarm appears on the monitor after replacing the battery, follow steps 6 7.

- 12. If the device seems to be working but no alarm is showing on the system. Refer to Page 73 Transmitter Functionality and ID# Test.
- 13. If the alarm still does not show on the monitor, follow the steps to verify that the ID# for the device has been programmed in the system correctly. (See the specific device section for instructions on how to program in the device)
- 14. If you have replaced the device with a new device, make sure you removed the old ID# from the system. If the old ID is left in the system it will cause a fault to appear on the system. Remove the old ID# from the system and then clear the fault. Watch the system to make sure the same fault does not appear again after 24 hours.
- 15. If you have tested the device in the room and it is not working even after replacing the battery. Remove the device from the mounting and bring it to the main system.
- 16. Test the device while standing at the main system and repeat from step 1.
- 17. If the device works when at the system, you may have a coverage issue.
- 18. Make sure you have enough repeaters in the vicinity of the device to make sure the signal can make it back to the main system.
- 19. Check all repeaters in that area to make sure they are powered up and working properly.
- 20. If you have verified all of the above information and the device still will not work when installed in the room, make sure the device is not mounted in a metal back box and contact SystemTechonolgies technical support for further troubleshooting.

## **Transmitter Functionality and ID# Test**

## **General Description**

• If you have followed the above troubleshooting tests for the device you are troubleshooting and are still having problems with the device you can use the transmitter test to further test the devices functionality. This test will allow you to troubleshoot and test any device for functionality and/or to learn the ID# of the device.

## Transmitter Test Column Description

In the Alarm 1 through the Internal Contact columns the following will apply.
 True = Yes, False = No

III Transmitter test										X
Transmitter ID	Room	DeviceType	Alarm1	Alarm2	Check-in	Super	Internal Lowbat	External Lowbat	Tamper	Internal Contact
516	Room #102	Elopement pendant	True	False	False	False	False	False	False	False
516	Room #102	Elopement pendant	True	False	False	False	False	False	False	False
516	Room #102	Elopement pendant	True	False	False	False	False	False	False	False
516	Room #102	Elopement pendant	True	False	False	False	False	False	False	False
782	Not programmed	Pendant	False	False	False	True	False	False	False	False

## • Transmitter ID

• This column will list any ID# that is received by the system that falls in the ID range you entered. (Figure T 1)

• <u>Room</u>

This column will list the room that the device is programmed into. If the device is not programmed into the system you will see "Not Programmed". (Figure T 1)

## Device Type

0

• This column will list the type of device you are testing. (Figure T 1)

## • Alarm 1 and Alarm 2

• These columns will list what alarm was triggered. (Figure T 1)

<u>Check-in</u>

• If you are testing a resident check-in device and you trigger the check-in button, this column will tell you if the system is seeing it as a check-in. (Figure T 1)

## <u>Super</u>

• This column will record if the device signal was recorded as a super. (Figure T 1)

## Internal Low Bat

 When a super is received and a LoBatt is sent with the super this column will show "True" (Figure T 1)

## External Low Bat

- When a super is received and a ExLoBatt is sent with it this column will show "True" (Figure T 1)
- <u>Tamper</u>

• This column will show you any device that is using a tamper alarm and the alarm has been activated. This column will show "True" (Figure T 1)

- Internal Contact
- If you are testing a VL970-B7 and have removed the magnet from the transmitter, this column will show "True". (Figure T 1)

## Trouble shooting a device with a known ID# using Transmitter Test

- Click on "Tools" at the top of the screen. (Figure T 2)
- Click on "Tests" and then click on "Transmitter Test". (Figure T 2)
- In the "Transmitter Test" window, enter the known ID# in the "Begin" box and the same ID# in the "End" box (If you are testing multiple devices, enter the lowest ID# in the "Begin" box and the highest ID# in the "End" box) and click the "Start" button. (Figure T 3)
- You should see the devices ID# in the "Transmitter ID" column when you activate the device.
- For explanation of each column, see "Column Description" on page 70.
- When you have completed all testing, click on the "Stop" button and close the "Transmitter Test" window by clicking on the red X in the upper right corner.

Tools Help				III Transmit	tter test									<b>X</b>
Device Types				Transmitter ID	Room	DeviceType	Alarm1	Alarm2	Check-in	Super	Internal Lowbat	External Lowbat	Tamper	Internal Contact
Users	ports 🎽 Users 🔁 Message			3113	Not programmed	Location pendant	False	False	False	True	False	False	False	False
User Groups	User Groups		-	4271	Not programmed	Eopement pendant	False	False	False	True	False	False	False	False
u ou		Date lime		3242	Not programmed	Location pendant	False	False	False	True	False	False	False	False
User Status	User Status	4/26/2017 11:26:42 AM	R 3120	Not programmed	Location pendant	False	False	False	True	False	False	False	False	
Check-In				3122	Not programmed	Location pendant	False	False	False	True	False	False	False	False
Locators				3164	Not programmed	Location pendant	False	False	False	True	False	False	False	False
Zanas														
Zones														
Notifications														
Settings														
Tests	•	Dome Light Test (Single)												
Maintenance	nance  Dome Light Test (4 lights)													
Egress		Transmitter test												
				Begin 1	*	End 5000	÷		Start		Stop		Cle	ar
	_													
	F	igure 12								_				
	Eigure T3													
							ſ	igure	15					

## Trouble shooting a device with an unknown ID# using Transmitter Test

- In the "Transmitter Test" window, keep the default Begin and End values and click the "Start" button. (Figure T3)
- You should see the devices ID# in the "Transmitter ID" column when you activate the device.
- For explanation of each column, see "Column Description" on page 75.
- When you have completed all testing, click on the "Stop" button and close the "Transmitter Test" window by clicking on the red X in the upper right corner.

## **Notification not Working**

#### Radio Paging

- If pages are not being sent when alarms appear on the console then some tests need to be performed.
  - 1. Check if it is one pager or all pagers that are affected.
  - 2. If the problem is all of paging go to step 7.
  - 3. If the problem is only with one pager, replace the battery in the pager and test again.
  - 4. If the problem is with one "Paging Group", (See Page 43 "Creating Notification Groups") and follow the steps to verify the group is set up correctly and the rooms are assigned correctly (Page 44 "Assign Rooms to Recipients")
  - 5. Verify the cap code that is programmed into the VisionLink II software has been correctly converted and programmed into the pagers (See Page 74)
  - 6. Use the "Messaging" feature to test the paging group to the pagers. (See Page 48 "Manual Page")
  - 7. Check the paging transmitter for power lights. If no lights appear on the transmitter then find the power supply and make sure it is plugged into a power outlet. If the problem was no power and now has power go to step 6 and run the test.
  - 8. If the transmitter has power, check the cable between the console and the paging transmitter. There should be a serial cable that attaches to COM 4 on the back of the system and to the paging transmitter. If there is not then find and reattach the cable. If the problem was the cable go to step 6 and run the test.
  - 9. Verify that the check mark is in the box next to "Enable Paging" in the notifications box. Click on "Settings", then "Notification Settings" then click on the "Paging" tab. If there is no check mark next to "Enable Paging", click on the box placing a check mark in the box and click the "OK" button and click the "Close" button on the "Settings" box.
  - 10. If the paging transmitter has power, is connected to the console and the manual page function works but the system still will not page when an alarm appears then the room assignments for the programming will need to be checked. (See Page 44 "Assigning Rooms to Recipients").

#### Dome lights / Dome Light Controller not working

- If you have a dome light not coming on when you trigger a device in a room that has a dome light address assigned to it. Follow these trouble shooting steps before contacting SystemsTechnologies technical support.
  - 1. If no dome lights are working.
  - 2. Check the serial cable from the VL175 is connected to COM 3 on the computer, and that the unit is plugged in.
  - 3. Check the dome light controller to see if the "Short Indicator" light in on.
  - 4. The "Short Indicator" light will come on when you first apply power to the dome light controller or if you have a short in one of your dome light runs.
  - 5. If the "Short Indicator" light is on, press and hold the "Reset" button till the light turns off.
  - 6. If the light does not turn off after pushing the "Reset" button, remove power and then remove the Green connector from the dome light controller.
  - 7. Apply power to the dome light controller and press the "Reset" button till the light turns off.
  - 8. If the light turns off, this tells you that you have a short some where in one of your dome light runs.
  - 9. To find the run with the short, remove all runs from the green connector and attach one dome light run to the connector. If the short light comes on, press the "Reset" button to see if the light will turn off.
  - 10. If the light turns off, remove the run and attach another run to the connector and repeat step 7.
  - 11. Repeat steps 7 and 8 for all dome light runs until you have identified which run or runs have a short.
  - 12. Once you have identified the run or runs with a short, find and repair the short and repeat all steps until you have fixed the problem.
  - 13. If you have found no shorts and the "Short Indicator" light is not on, you will need to verify the dome light address(s).
  - 14. If you have 1 or more dome lights that are not coming on when a device is activated in a room with a dome light addressed to it, test one of the dome lights by turning all the dip switches to the off position. The light should start to blink if it has 24VDC power from the dome light controller supplied to it.
  - 15. If the light does not blink, test the power at the dome light to make sure it has 24VDC being supplied to the dome light.
  - 16. If the light does have power being supplied to it but does not blink when all addresses dip switches are turned off, you may have a faulty dome light and you will need to contact SystemsTechnologies technical support for further trouble shooting.

- 17. If the dome light does blink when all address switches are turned off but not when the device is activated, you will need to verify the address that is programmed into the VisionLink II software for that room. (See Page 20) and follow the steps.
- 18. Verify that the check mark is in the box next to "Enable Dome Light" in the notifications box. Click on "Settings", then "Notification Settings" then click on the "Dome Light" tab. If there is no check mark next to "Enable Dome Light", click on the box placing a check mark in the box and click the "OK" button and click the "Close" button on the "Settings" box.
- 19. After step 19, retest. If none of these steps have solved your problem, please contact SystemsTechnologies technical support or further trouble shooting.

## Vision Link II Paging Cap Code Conversion Chart

Vision Pro	Pager Cap	Vision Pro	Pager Cap
Cap Code	Code	 Cap Code	Code
100	1998800	126	1996200
101	1998700	127	1996100
102	1998600	128	1996000
103	1998500	129	1995900
104	1998700	130	1995800
105	1998400	131	1995700
106	1998300	132	1995600
107	1998200	133	1995500
108	1998100	134	1995400
109	1998000	135	1995300
110	1997900	136	1995200
111	1997800	137	1995100
112	1997600	138	1995000
113	1997500	139	1994900
114	1997400	140	1994800
115	1997300	141	1994700
116	1997200	142	1994600
117	1997100	143	1994500
118	1997000	144	1994400
119	1996900	145	1994300
120	1996800	146	1994200
121	1996700	147	1994100
122	1996600	148	1994000
123	1996500	149	1993900
124	1996400	150	1993800
125	1996300		

# **Warranty Information**

If you are in need of a replacement due to a manufacture defect, you <u>MUST</u> speak with a SystemsTechnolgies Technical support person first before obtaining an Advanced Replacement. Systems Technologies will verify the validity of the warranty claim through testing. <u>SystemsTechnologies will not replace any</u> <u>defective part without a technical support person verifying the warranty</u> <u>claim first.</u>

## Systems Technologies Warranty Policy

- Please refer to the Warranty and Disclaimer section at the end of the next page for complete information.
- In general SystemsTechnologies will guarantee all VisionLink and MicroVision hardware for a period of one year beginning on the date the system is shipped.
- System software, pocket pagers, bed pads, and call cords are warranted for a period of 90 days beginning on the date shipped.
- The warranty guarantees that the system will be free of manufacture defects in parts and workmanship.
- SystemsTechnologies agrees to correct any defect found by SystemsTechnologies technical support to be a manufactures defect.
- Service performed outside the warranty window will be billed at the prevailing rate.

## Warranty Products Return Policy (AR)

- The purchaser should have the following information **<u>BEFORE</u>** placing the call
  - Dealer Name and telephone number (If applicable).
  - Facility Name and telephone number.
  - Serial Number of product (If applicable).
  - Type of device and Specific nature of the problem.
- When contacting SystemsTechnologies, The customer will have the device in hand to go over testing.
- Systems Technologies will authorize the return of a product only under the conditions of the warranty policy.
- No product may be returned after 30 days unless under warranty and approved by SystemsTechnologies in writing.
- When it is necessary to return goods to Systems Technologies, the purchaser must call the SystemsTechnologies Service Department (208-762-6800) for an Advanced Replacement (AR) number.
- Systems Technologies will verify the validity of the warranty claim and issue an AR number to the purchaser.

- If a replacement product is shipped, the purchaser will be invoiced at customer's established pricing.
- Appropriate credits will be made only after receipt of the returned warranted product with a valid AR number.
- If an AR is approved and you are given an AR number, SystemsTechnolgies will ship out a new or remanufactured device (This option is at SystemsTechnologies discretion) at SystemsTechnologies cost.
- All repaired or exchanged units under warranty will be shipped, freight prepaid, to the purchaser.
- The warranty does not cover physical damage incurred in shipping. In such cases, the purchaser is responsible for processing all freight claims.
- A return shipping label will be included in the box with the new device.
- The damaged item will need to be placed in the box with proper packing material and the return label placed on the outside of the box.
- The defective item must be returned with in 30 days to avoid being billed for the new device for failure to return the defective device. (Contact SystemsTechnologies if it will take longer than the 30 days, so we can make a note to extend the return days)
- The customer can contact UPS to have the item picked up or they can drop the item off at any UPS store. There is no charge for having the item picked up or shipped back to SystemsTechnologies.
- AR numbers must be prominently displayed on the shipping label of all boxes containing returned goods.
- If a product is sent in as defective and upon inspection proves to not be a warranty defect. You will be billed for the new unit that was sent out on the AR.

## Returned products for Repair (RMA)

- Products that are damaged and are out of warranty can be sent in to be repaired on an RMA number.
- RMA numbers are valid for 10 business days only.
- RMA numbers must be prominently displayed on the shipping label of all boxes containing returned goods.
- Systems Technologies expects all returned goods to be shipped freight prepaid.
- Any equipment that arrives at Systems Technologies without the preceding information will be returned at the cost of the original shipper.
- If a product is sent in as defective and upon inspection proves to be non-defective, a testing and handling fee will be assessed and the unit will be returned.

• Systems Technologies does not warranty any physical damage incurred in shipping. In such cases, the purchaser is responsible for processing all freight claims.

#### All returns are subject to a 20% restocking fee

- Products by other manufactures that are sold through SystemsTechnologies are subject to the return policies of the original manufacturer.
- Systems Technologies will charge a 20% restocking fee beyond any fees that may be levied by the manufacturer of the product.
- Systems Technologies will not accept for return any products that were specially manufactured or ordered for the customer by Systems Technologies.

## Warranty & Disclaimer

Systems Technologies, Inc. ("Systems Technologies") warrants its products ("Product" or "Products") to conform to its own specifications and to be free of defects in materials and workmanship under normal use for a period of twelve (12) months from the date of manufacture. Within the warranty period Systems Technologies will repair or replace, at its option, all or any part of the warranted products. Systems Technologies will not be responsible for dismantling and/or reinstallation charges. To exercise the warranty, the User ("User", "Installer" or "Consumer" must be given a Return Material Authorization ("RMA") Number by Systems Technologies. Details of shipment will be arranged at that time.

This warranty does not apply in cases of improper installation, misuse, failure to follow installation and operating instructions, alteration, abuse, accident or tampering, and repair by anyone other than Systems Technologies.

This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express, or implied, including any warranty of merchantability or fitness for a particular purpose. Systems Technologies will not be liable to anyone for any consequential or incidental damages for breach of this warranty or any other warranties.

This warranty shall not be modified, varied or extended. Systems Technologies does not authorize any person to act on its behalf to modify, vary or extend this warranty. This warranty will apply to Systems Technologies products only. All other products, accessories or attachments used in conjunction with Systems Technologies equipment, including batteries, will be covered solely by their own warranty, if any. Systems Technologies will not be liable for any direct, incidental or consequential damage or loss whatsoever, caused by the malfunction of Products due to products, accessories, or attachments of other manufacturers, including batteries, used in conjunction with Systems Technologies Products. This warranty does not warrant the replacement of batteries that are used to power Systems Technologies Products.

The User recognized that a properly installed and maintained emergency call system might only reduce the risk of events such as personal injury, robbery, burglary or fire. It does not insure or guarantee that there will be no death, personal damage and/or damage to property as a result. Systems Technologies does not claim that the Product may not be compromised and/or circumvented, or that the Product will prevent any death, personal and/or bodily injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection.

Systems Technologies shall have no liability for any death, injury or damage, however incurred, based on a claim that Systems Technologies Products failed to function. However, if Systems Technologies is held liable, directly or indirectly, for any loss or damage arising under this limited

warranty or otherwise, regardless of cause or origin, Systems Technologies' maximum liability will not in any case exceed the purchase price of the Product, which will be fixed as liquidated damages and not as a penalty, and will be the complete and exclusive remedy against Systems Technologies.

► Warning: The User should follow all installation, operation and maintenance instructions. The User is strongly advised to conduct Product and systems tests at least once each week. Changes in environmental conditions, electric or electronic disruptions and tampering may cause the Product to not perform as expected.

► Warning: Systems Technologies warrants its Product to the User. The User is responsible for exercising all due prudence and taking necessary precautions for the safety and protection of lives and property wherever Systems Technologies products are installed.