VL520BK-F, VL520SS-F
IP COMPACT SPEAKER WITH TEXT

INTRODUCTION
The VL520 IP Compact Speaker with Text provides highly visible message output and audio paging over an Ethernet network. Audio and Text messages are created and delivered from an Engineered Solutions application server. Audio only messages can be created from any Valcom IP Paging source.

SIP (Session Initiation Protocol) compatibility allows flexibility for talkback/intercom connections. An optional call switch can be used to initiate intercom calls from the VL520 to a Valcom or SIP destination.

SPECIFICATIONS
Features
- SIP compatible
- Easy to read, high visibility
- Font and color options
- Power over Ethernet:
  (PoE) 802.3af or
  (PoE+) 802.3at compatible
- Speaker output and LED display can be activated together or separately
- Display can operate as a clock or provide other message during idle periods
- Contact Closure connection for optional Call switch
- Relay connection for optional equipment
- Bright LED flashers that can be activated based on priority page

Dimensions / Weight
- 20.38" W x 5.5" H x 2.5" D
  (51.8cm W x 14.0cm H x 6.4cm D)
- Weight:
  VL520BK-F   4.65 lb (2.1kg)
  VL520SS-F (Stainless Steel) 5.95 lb (2.7kg)

Nominal Power Requirements
- 802.3af (PoE)   Class 3
  or
- 802.3at (PoE+)   Class 4

Black (BK)

Stainless Steel (SS)

Environment
Temperature: 0 to +40° C
Humidity: 0 to 85% non-precipitating

These products are intended for use with a UL Listed power source marked "Class 2" or "LPS" rated 24VDC, or 48VDC (PoE).
PoE and all interconnected ITE are intended for intra-building.

Precautionary Designations
- **WARNING: To Reduce The Risk Of Fire Or Electric Shock. Do Not Expose This Apparatus To Rain Or Moisture.**
- **AVERTISSEMENT: Afin de réduire les risques d'incendie ou de décharge électrique, évitez d'exposer le système à la pluie ou à l'humidité.**
- **Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.**
- **L'appareil ne doit pas être exposé à des égouttements et éclaboussures et aucun Objet Rempli de liquide, comme vase, ne doit être placé sur l'appareil.**
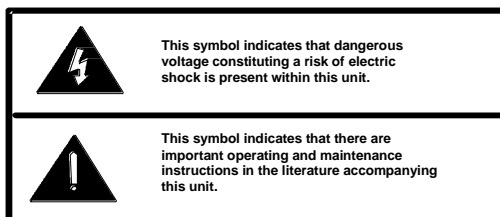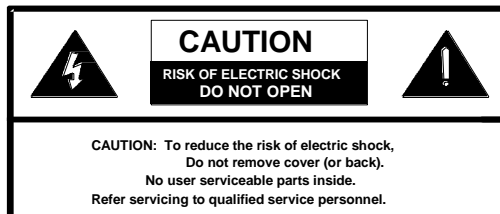
FCC Information

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

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: To reduce the risk of electric shock,
Do not remove cover (or back).
No user serviceable parts inside.
Refer servicing to qualified service personnel.

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

INSTALLATION
Mounting
The VL520 message display should be mounted with appropriate hardware (not included). We recommend the mounting base to be mounted into wall studs. (See Figure 2).

CONNECTIONS
Network Connection / Power
The VL520 has one RJ-45 network connector. Connect a standard patch cable to the VL520 from an Ethernet switch supporting the Power over Ethernet specification 802.3af (PoE) or 802.3at (PoE+).
If a PoE switch is not available, a mid-span injector may be used to supply power to the display, or an optional Valcom 24 Vdc power adapter may be connected to the barrel connector on the circuit board (see Figure 1). The recommended power supply is a VP-1124D.

Call Switch Connection
The VL520 provides a call switch input via screw terminal connections labeled Switch 1. (See Figure 1)

Relay Connection
One relay output is provided through three screw terminals, labeled Normally Open (NO) and Normally Closed (NC). The center screw terminal is common to both NO and NC. The relay contacts are rated 1 amp @ 24 Vdc.

Line Out Connection
The Line Out connection provides line level output sufficient to drive up to 40 Valcom self-amplified speakers**.**

Status / Calibration / Reset

A multifunction button is provided to display information, allow calibration and/or reset the VL520 configuration. The button is located behind a pinhole in the top-center of the VL520 and can be depressed using a small diameter object, such as a toothpick. The button provides different results depending on how long the button remains depressed.

Status Mode

Press the button for approximately 1 second and release and the Status display will show the current IP Address, Power Source status and the last four digits of the MAC address.

Calibration Mode

While the Status display is active, pressing the button again will put the VL520 in Calibration Mode. Calibration mode allows the VL520 to adjust its light sensor to the ambient light in the room. While in this mode, follow the prompts on the LED display to turn the room lights on/off. The calibration takes about 60 seconds, and the VL520 will display "Calibrated" when complete.

Demo Mode

While the VL520 is in Calibration Mode, pressing the button again will enable Demo Mode. In this mode, the VL520 will display a scrolling sample message and the flashers will flash. Demo Mode will display for about 30 seconds then the VL520 returns to normal operation.

Reset Modes

Pressing the button continuously for greater than 10 seconds, but less than 20 seconds, will perform a soft reset on the VL520. The IP address will be reset to the factory default setting. Other configuration items will not be affected.

Pressing the button continuously for greater than 20 seconds will perform a hard reset on the VL520. All of the configuration items (including the password) will be reset to factory default settings.

Setup

Information specific to your application will need to be programmed into the VL520 using a computer. The PC used for the programming should be connected to the same subnet as the display. Setup will be done using the IP Solutions Setup Tool. Download the latest version of the free IP Solution Setup Tool from Valcom website at www.valcom.com/vipsetuptool.

TECHNICAL ASSISTANCE

Assistance is available from the factory when problems are encountered. Call (540) 563-2000 and press 1 for Technical Support or visit our website at http://www.valcom.com

Valcom, Inc. equipment is not field repairable. Valcom maintains service facilities in Roanoke, VA.
Should repairs be necessary, attach a tag to the unit clearly stating company name, address, phone number, contact person, and the nature of the problem.
Send the unit to:

<div align="center">

Valcom, Inc.
Repair and Return Dept.
5614 Hollins Road
Roanoke, VA 24019-5056

</div>

WARRANTY

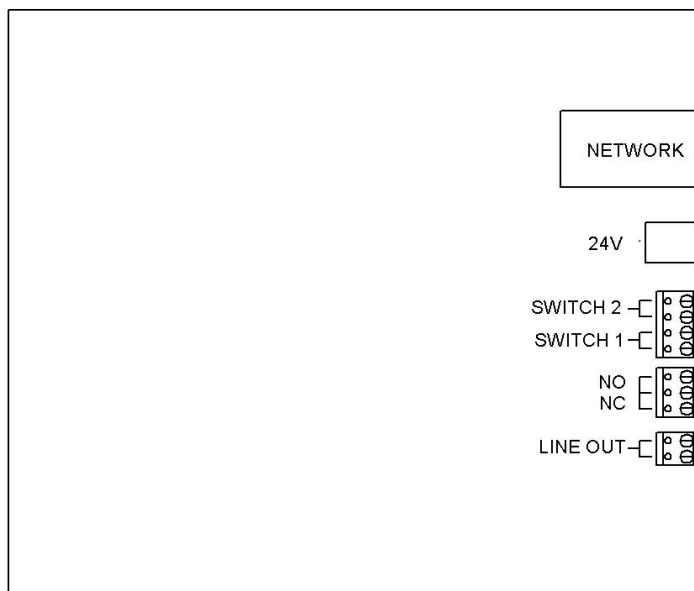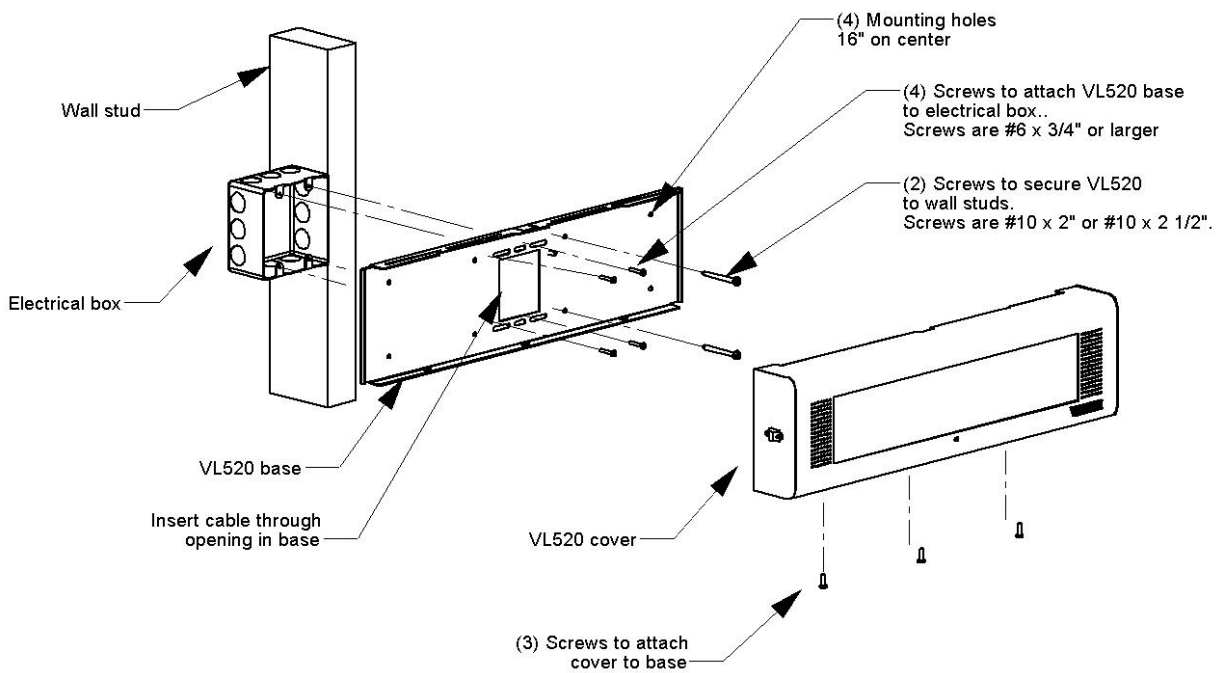Warranty information may be found on our website at www.valcom.com/warranty.

Figure 1. Network Connections

Figure 2. Mounting Diagram

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