

# VL-1250C – SUPERVISED DUAL INPUT 5 WATT BI-DIRECTIONAL HORN/ONE-WAY AMPLIFIER ASSEMBLY

## INTRODUCTION

The VL-1250C is a supervised dual input Bi-directional, 5 Watt One-way Amplified Horn Assembly. The VL-1250C consists of two horn speakers positioned on a common mounting frame with a built-in dual input one-way supervised 5 Watt amplifier.

## SPECIFICATIONS

### Features

- 5 Watts
- Self-contained dual input amplifier and master volume control
- Compatible with Valcom Services monitored wire (supervised) paging systems
- Mixes 2 separate audio sources into one bi-directional horn

### Dimensions/Weight

- 9.60" H x 8.20" W x 9.30" D  
(24.38cm H x 20.83cm W x 23.62cm D)
- Weight: 6.3 lbs. (2.86 Kg)

### Power Requirements

- Unfiltered -24VDC ("B" Battery) 300mA maximum

### Environment

- Temperature: -20 to +55° C
- Humidity: 0 to 95% non-precipitating

## DESIGN

### General

The VL-1250C may be used to provide one-way paging from any Valcom one-way or talkback page control unit. The VL-1250C can be used with Valcom's wiring supervised circuits.

A standard Valcom paging system is made up of three basic components:



- Page Control Unit
- Speakers
- Power Supply

Consult Valcom's One-way Paging VSP for detailed information on selecting the control unit and power supply

### Special Applications

The VL-1250C may be connected directly to the speaker in most electronic key telephones to amplify the level of the speaker and broadcast it to a large area. A second low level audio input can be connected to it as well. A power supply will also be required.

The VL-1250C may be used to expand a constant voltage (25/70/100 Volt) paging system without placing an additional load on the amplifier by adding a V-1095, 70V Paging Expander. A power supply will also be required.

### Coverage

Refer to Table 1 for coverage of this horn assembly. The first figure given is the side to side distance to use when mounting the horns. The second figure is the front to back distance between horns. The third figure is the total square footage the assembly will cover.

**Table 1**

Location	Side/ Side	Front/ Back	Square Feet
Quiet	70'	140'	9,800
Moderate	50'	100'	5,000
Noisy	30'	60'	1,800
Very Noisy	20'	40'	800

## INSTALLATION

### Connections

Six conductor wire is required for the VL-1250C. Standard 22 or 24 gauge 3 or 4 pair telephone wire is acceptable. Shielded wire is not required or recommended. Connections are as follows:

Red	Audio input 1
Green	Audio Input 1&2 Common
Brown	Audio input 2
Black	Ground
White	-24VDC

The specifications in Tables 2 and 3 must be met when wiring this speaker assembly.

**Table 2**

Maximum Number of Horns per Audio Run	
Wire Run in Feet (22 AWG)	# of Horns
200	150
400	100
800	50
1600	25

**Table 3**

Maximum Number of Horns per Power Run	
Wire Run in Feet (22 AWG)	# of Horns
200	4
400	2
800	1
1600	0

### Mounting

The VL-1250C should be mounted 12' to 25' high to obtain optimum results and may be used for either interior or exterior applications.

- Loosen the wing nut to remove both speakers from the mounting bracket. Position the mounting bracket as desired and then re-attach speakers to the bracket.

Both horns of the VL-1250C may be rotated or moved up and down to obtain the desired position by loosening the position adjustment knob at the bottom of each horn approximately one turn, locating the desired angle placement and re-tighten the knob.

Connection to an electrical box is accomplished by channeling the wire through the hole in the base. Holes are punched in the plate for mounting to a double-gang square box, single-gang or octagon box.

### TECHNICAL ASSISTANCE

When trouble is reported, verify there are no broken connections between the telephone and the ringer. Ascertain volume control is turned up.

Assistance in troubleshooting is available from the factory. When calling, you should have a VOM and a test set available and call from the job site. Call (540) 427-2400 or visit our website at <http://www.valcomservicesllc.com>.

Valcom Services equipment is not field repairable. Valcom Services 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:

**Valcom Services L.L.C.  
Repair and Return Dept  
5614 Hollins Road  
Roanoke, VA 24019-5056**

<b>Troubleshooting Chart</b>	
<b>Symptom</b>	<b>Solution</b>
No Output	A. Verify -24VDC on the white lead with ground (+) on the black. B. Verify audio is present on the green and red leads and/or on the brown and red leads (Monitor with a lineman's test set at the speaker). C. Verify volume control turned up (Clockwise).

**VALCOM SERVICES L.L.C. LIMITED WARRANTY**

Valcom Services L.L.C. warrants its products only to the original purchaser, for its own use, to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. This Limited Warranty obligation shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. inspection by Valcom Services L.L.C. indicates the validity of the claim;
2. the defect is not the result of damage, misuse or negligence after the original shipment;
3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (a service charge plus parts and labor will be applied to units defaced or physically damaged);
4. freight charges for the return of products to Valcom Services L.L.C. are prepaid;
5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (major repairs will be subject to additional charges for parts and labor).

**This Limited Warranty is in lieu of and excludes all other warranties, expressed or implied and in no event shall Valcom Services L.L.C. be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation, maintenance, installation, removal or use of the product. The maximum liability of Valcom Services L.L.C. under this warranty is limited to the purchase price of the specific Product covered by the warranty.**

**Disclaimer.** Except for the Limited Warranty provided herein, the product is provided "as-is" without any warranty of any kind whatsoever including, without limitation, any **WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.**

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.

Headquarters:  
 Valcom Services L.L.C.  
 5614 Hollins Road Roanoke, VA 24019-5056  
 Phone: (540) 563-2000 FAX: (540) 362-9800