

## INTERIOR SPEAKERS

**S-500**  
**S-500VC**

**S-505**  
**S-505VC**

### INTRODUCTION

The S-500, S-500VC, S-505 and S-505VC are speaker/transformer/baffle assemblies for use with any Clarity Mixer-Amplifier. The S-500VC and S-505VC include a volume control knob for volume level selection.

These speakers are for use in interior areas only.

These instructions contain the specifications and information necessary to install, operate and maintain the Interior Speakers.

### SPECIFICATIONS

#### Product Description

- S-500 8" Ceiling Speaker Assembly
- S-500VC 8" Ceiling Speaker Assembly with Volume Control
- S-505 Wall Speaker Assembly
- S-505VC Wall Speaker Assembly with Volume Control

#### Applications

- Clarity Paging Systems
- Clarity Background Music Systems
- Existing 25 or 70V Paging Systems

#### Features

- Combination 25/70V Transformer
- Appropriate Baffle (white ceiling grille or wood grain with brown cloth front)
- 8" Speaker

### Transformer Tap Color Code

<u>25 Volt Line</u>		<u>70.7 Volt Line</u>	
Color	Designation	Color	Designation
BLK	Common	BLK	Common
BRN	5W	GRN	5W
RED	2.5W	WHT	2.5W
ORN	1.25W	BLU	1.25W
GRN	0.625W	GRY	0.625W
WHT	0.312W	VIO	0.312W

### Dimensions

S-500	13.00"Dia x 3.00"D
S-500VC	13.00"Dia x 3.00"D
S-505	12.00"W x 9.70"H x 4.00"D Top 2.00"D Bottom
S-505VC	Same as the S-505

\* All dimensions are approximate.

### Technical Specifications

Frequency Response:	65 to 17K
Maximum Power Capability:	5 Watts
SPL @ 4 Feet with 1 Watt Input:	98dB
Transformer Taps (Watts):	5/16, 5/8, 1-1/4, 2-1/2 and 5
Line Voltage:	25 or 70V

### Environment

Temperature:	0 to +50 Degrees C
Humidity:	0 to 85% non-precipitating

## Coverage

Ceiling Speakers (S-500 and S-500VC):

The area covered by a ceiling speaker is determined by the height of the ceiling. If the ceiling height is 8 feet, the speaker will cover 250 square feet. With a ceiling height of 9 to 15 feet, the speaker will cover 400 square feet. If the ceiling is 16 to 35 feet high, the speaker will cover 850 square feet.

Wall Speakers (S-505 and S-505VC):

These wall speakers will cover an area up to 600 square feet. Wall speakers should be spaced 20 feet apart, with good quality paging being heard up to 30 feet in front of the speaker.

The volume control on the S-500VC and S-505VC allows the volume level to be raised or lowered to suit the needs of the surroundings. Turn the knob clockwise to increase volume, counterclockwise to decrease volume.

## MOUNTING

S-500 and S-500VC:

Cut an 8.50" diameter hole in ceiling tile. After connections have been made to the speaker, attach speaker to ceiling tile using the mounting hardware provided.

Note: Where extra speaker support is needed, a S-550 Clarity Bridge should be used.

S-505: Remove the screw holding the mounting bracket to the baffle and mount the bracket to the wall (typical mounting height is 8 feet). After making the connections to the speaker, place the baffle on the bracket and replace the screw.

S-505VC: Remove the screw holding the mounting bracket to the wall (typical mounting height is 8 feet). After making the connections to the speaker, place the baffle on the bracket and replace the screw.

## TECHNICAL ASSISTANCE

When trouble is reported, verify the unit is turned on and there are no broken connections leading to this unit. Assistance in troubleshooting is available from the factory. When calling, you should have a VOM available and be calling from the job site. Call (540) 563-2000 and ask for Technical Support or call (540) 767-1555 for Clarity 24-hour Faxback System. Visit our website at <http://www/clarity-com.com>.

CLARITY 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:

**Clarity**  
**Repair and Return Dept.**  
**5614 Hollins Road**  
**Roanoke, VA 24019-5056**

### LIMITED WARRANTY

Clarity warrants its products 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. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. inspection by Clarity 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 in any way 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 Clarity 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 warranty is in lieu of and excludes all other warranties expressed or implied, and in no event shall Clarity be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation or use of the product.**

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.