

# INSTALLATION MANUAL



## VCMute™ / VCPage™ & VCPage-Base

OptiMatch™ and PurePath™ versions

### SPECIFICATIONS

#### VCMute / VCPage

Attenuator Type:	Tapped auto transformer.
Switch:	12 position rotary, make-before-break contacts, low torque specifications for smooth feel.
Connectors:	Screw-tight type.
Power rating:	72 Watts RMS continuous, 35 Hz-20KHz, 216 Watts audio.
Core Saturation:	Studies reveal that transformer core saturation @ 35 Hz is 72 Watts.
Transformers:	Tri-filar wound for flat response and minimum phase shift, grain oriented, -34 dB in 12 steps. 8 steps @ -3 dB each, 1 step @ -4 dB, 1 step @ -6 dB, last step OFF.
Mounting:	Fits most standard two-gang junction boxes.
OptiMatch™	Will match impedance for almost any situation. Mechanical index permits presetting load impedance multiplication by X2, X4, X8, X16, which can be changed at any time.
Requires:	VCPage-Base for page amplification, mute control and infrared operation.

#### VCPage-Base

Size:	17"W x 4.5"D x 1.75"H
Power Supplies:	12v DC (plug into switched outlet of audio receiver; 16v AC (plugs into constant powered outlet).
Zones:	Capable of paging into 10 VCMutes (9 if using the Doorbell Interface).
Connectors:	Depluggable Connectors.
Power rating:	60 watt paging amplifier.
RCA Input:	Line level page input for interfacing with paging phone systems.
Infrared Output:	Three IR emitter outputs (1/8" jacks).
Recommended Wire:	CAT-5 (seven conductors of the eight conductors will be required to operate the VCMute and VCPage system. The eighth conductor will be required if infrared is added to the system—see IR Repeating and IR Emitter Output.

### INSTALLATION

***Installation must be made by qualified service personnel, and must meet all local codes.***

Your VCMute / VCPage is available as either a full range volume control (PurePath) or as an impedance matching version (OptiMatch) capable of adjustment to meet the requirements of your installation.

If using some other device such as an impedance matching audio switcher (AT-Series, PT-Series, MS-Series) or a distribution hub (MJ-1 or OC-12), you may use the PurePath version of the VCMute with 12 steps of attenuation. If you wish to use the VCMute volume control to impedance match the system, every OptiMatch unit is factory set at the 4X position—capable of correcting 4 pairs of 8 ohm speakers wired in parallel to appear as an 8 ohm load on the amplifier. If using more than 4 pairs of speakers, please refer to the OptiMatch chart included in this manual to adjust the Opti Peg setting. **ONLY ONE PAIR OF SPEAKERS PER VOLUME CONTROL.**

Following the wiring diagram on the back of this manual;

1. Make connections by stripping the wire insulation back about 3/16". Twist any loose strands tightly.
2. Insert the wires from the amplifier into the INPUT openings of the connector, hot to hot and ground to ground, then tighten the screws. Check for any loose strands that might cause a short circuit. Make sure the metal part of the screw connector engages the bare wire, NOT the insulation.
3. Similarly, connect speaker wires to the control OUTPUT openings and tighten screws.
4. Finally make the Mute and Page connections in the same way. Connect the power supply last.  
All VCMute and VCPage units must be wired in the HOME RUN method directly to the VCPage-Base unit.
5. If using the impedance matching feature, make sure the factory setting of 4X is acceptable. If not, make the appropriate change using the chart located on the wiring diagram.
7. Install the control in its operating location.

NOTE: No more than 10 VCMute / VCPage units controlling only one pair of speakers each can be installed in a single system. If utilizing the VCPage Doorbell Interface (VCPage-DBI) only nine VCMute / VCPage units can be installed in the system.

## VCMute OPERATION

In operation, the VCMute features a two-color LED that indicates the status of both your stereo system and the room you are in. When someone turns on the stereo, all volume controls stay muted and light up their red LED's, indicating that the stereo is on. A momentary push of the button turns on that location. When you "un-mute" the room to listen, the LED will turn to green. Holding the button in for 3 seconds will turn on all locations (party mode). To reset all locations to mute, power down the amplifier or press the "All Zones Stand By" button on the VCPage-Base.

## VCPage OPERATION

When the control button on the VCPage side of the unit is pressed and held, an all zone page will occur. There will be a 3 second delay before someone can respond. A green LED will illuminate on the VCPage indicating a real-time page can be made. The LED on the VCMute side of the unit will glow red indicating the room is temporarily muted and able to receive a page. After the VCPage control button is released, all rooms will return to their previous state (listening to music—green LED or muted—red LED on the VCMute). The level of the page is controlled at the VCPage-Base. "Page Levels-Zones" is the master gain for the VCPage plate volume—page volume is independent from the audio volume control on each VC plate.

## VCPage-Base OPERATION

### **Privacy Buttons:**

Voice pages, doorbell chimes and the VCMute's "all on" features can be overridden in individual rooms from the VCPage-Base unit. Operating the privacy buttons on the front of the VCPage-Base, a single zone can be temporarily taken off line retaining only "local commands" (i.e. local mute, local un-mute). Infrared control of source equipment will be retained even when the zone is selected as private. No pages will be received in the room, the doorbell interface will not chime into the room, and the room will not be turned on by a global command from another VCMute until re-selected into the system at the VCPage-Base.

### **All Zones Stand By Button:**

All VCMute zones can be instantly re-muted by pressing the "All Zones Stand By" button located on the far left of the VCPage-Base's front panel. Push and hold this button for 3-5 seconds to mute all zones.

NOTE: ALL zones in the system will revert to the mute state with this function—even zones selected as "private" on the VCPage-Base.

### **IR Repeating and IR Emitter Output:**

The Audiplex X-40 Infrared Repeating Systems can also be tied into the VCPage-Base. VCMutes with X-40 IRTargets built onboard can be home run to the Base unit and the three (3) IR emitter output jacks, located on the rear of the VCPage-Base, can be used to control source equipment. (IRBug and IRFlood emitters are sold separately).

The X-40 IRTarget built onboard share power and ground with the VCPage plate (12P and PGD); The X-40 IRTarget does, however, have its own signal line, designated as IR on the VCPage-Base which will need to be home run separately to the VCPage-Base. Use the eighth conductor of the CAT-5 wire.

IRTargets other than VCMutes built with X-40 onboard should be home run to the 12P (12v DC), PGD (ground) and IR (signal) terminals on the VCPage-Base for proper operation.

IMPORTANT: The page made through the VCPage is a real time announcement into the system. In order to avoid the potential of a feedback loop, the room a page is originating from WILL NOT hear their own announcement\*. Instead, whatever input amplified by the audio amplifier (i.e. the CD player or Radio) will come through the speakers over the duration of the page. The LED on the unit's VCMute will glow Green.

INSTALLATION TIP: The placement of speakers in relationship to the VCMute and VCPage unit is important so that the person making the page will not feel "overpowered" with music playing in the background. If the music playing in the background is too distracting during a page, the volume control on the VCMute can always be temporarily turned down until the announcement is completed.

*\*It is possible to make a page when the audio amplifier is completely turned off, however, the real time page WILL sound into the room the page originated from. Also, the VCMute's LED throughout the system WILL NOT glow when the page is made—they will all remain dark. Spacing and distance of speakers in relationship to the VCMute and VCPage is critically important in this instance in order to avoid the possibility of feedback loops.*

### RCA Line Level Input

A page can be input into the VCMute system with a phone system capable of generating a line level audio out signal. The RCA jack and companion gain control on the rear of the VCPage-Base will integrate phone systems in place of, or augmenting, the VCPage plate.

When a page is generated with a phone system (for example #9 is the command for the phone system to begin a page announce), the music will automatically mute just as if the page were input at a VCPage plate. When the phone's handset is hung up, the VCMutes will once again revert to their original state.

NOTE: While VCPage plates are optional when integrating a paging phone system, the VCMute's home run to the VCPage-Base will always be necessary.

### WARRANTY

Your AUDIOPLEX TECHNOLOGY® VCMute / VCPage and VCPage-Base are covered by a LIFETIME warranty against any defects in workmanship and materials. Any defects will be remedied without charge for labor or parts.

Damage incurred by shipping or accident is not considered to be a defect, and not covered by this warranty. AUDIOPLEX TECHNOLOGY® is not responsible for defective operation caused by abuse or by modification or service by any unauthorized person or agency.

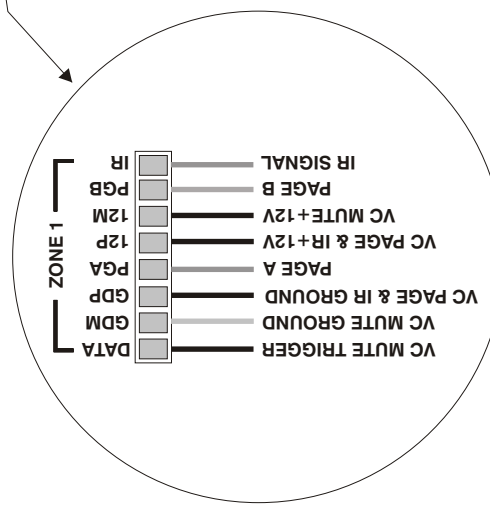
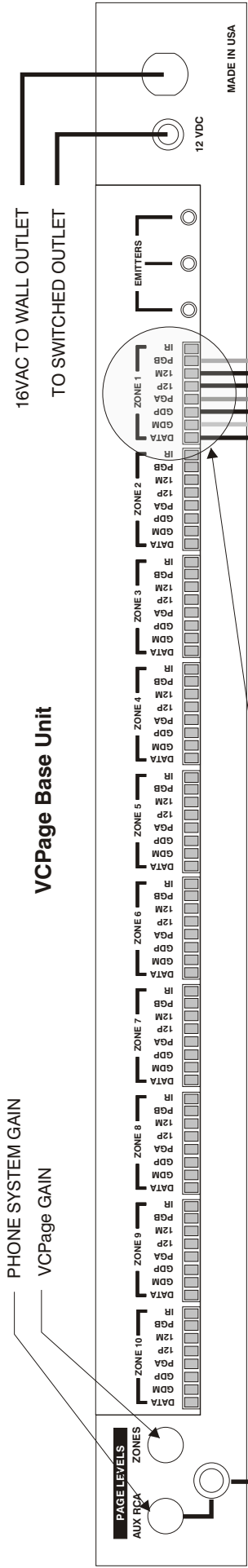
The product must be properly installed and operated according to instructions for the warranty to apply. Any necessary servicing must be done by AUDIOPLEX TECHNOLOGY®. The product must be returned expenses prepaid, with written authorization from the company. The product must be shipped with the proof of purchase and in the original carton and packing material to avoid damage.

This warranty gives you specific legal rights. You may have other rights which vary from state to state.

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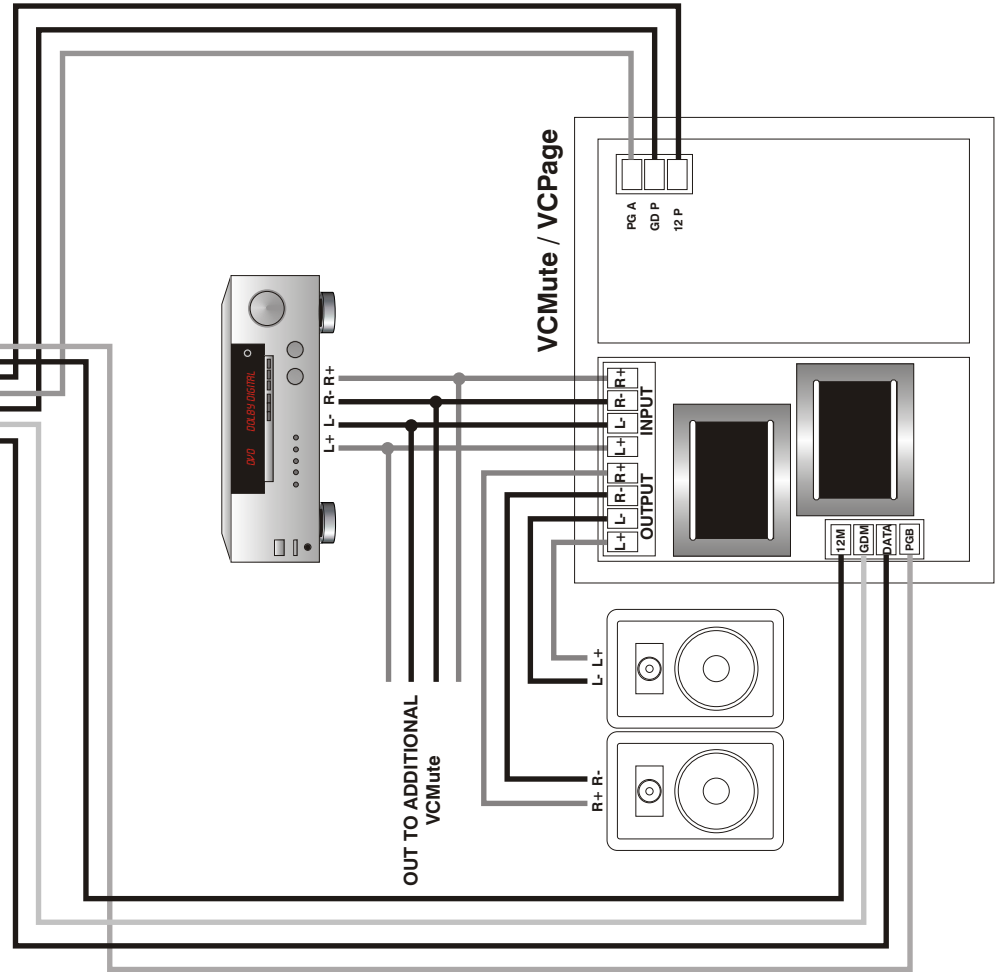
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PHONE SYSTEM  
LINE LEVEL IN

## WIRING DIAGRAM



**OPTIMATCH CHART**

#4 Ohm Speakers Per Channel	#8 Ohm Speakers Per Channel	Load (Ohms)	Tap Setting For Match(Ω)	No. of Available Steps for Optimatch(Ω)	Controls
2	2	4.0000	X2	11	
3	3	2.6667	X4	10	
4	4	2.0000	X4	10	
5	5	1.6000	X8	9	
6	6	1.3333	X8	9	
7	7	1.1429	X8	9	
8	8	1.0000	X8	9	
9	9	0.8889	X16	8	
5*	10	0.8000	X16	8	

\* Audiocplex recommends using PurePath volume controls with an impedance matching distribution hub, such as our OC-12 or MJ Series