

MicVIEW™



Teleconference Microphone Switcher/Mixer

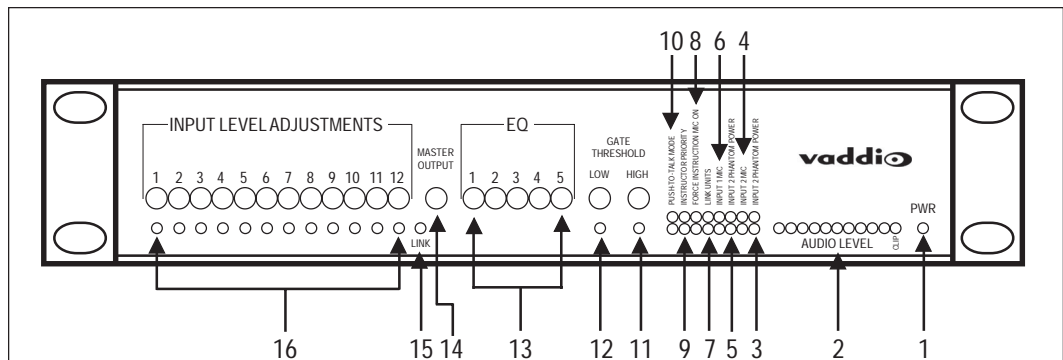
Introduction

The Vaddio MicVIEW is the microphone switching unit for use in an automated camera positioning system or in a stand alone operation. The MicVIEW has twelve microphone inputs with 24V phantom power and +5V status line outputs. Microphones one and two can disable the phantom power and switch between mic-level and line-level inputs such as cordless, lapel microphones.

Unpacking Your MicVIEW

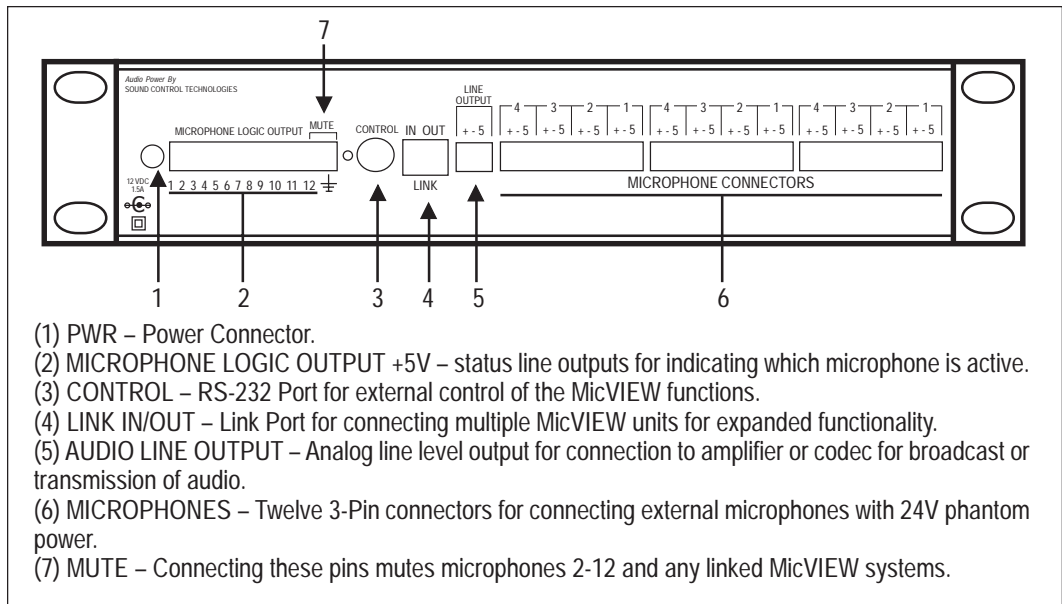
- Carefully remove the device and parts from the packing material.
- Set the unit on a flat, solid surface. Unpack and identify the following parts:
 - One, power supply
 - Eighteen, 3-position female 5mm screw terminals

MicVIEW Front Panel



- (1) POWER INDICATOR – Green LED indicates that 12 VDC has been connected.
- (2) OUTPUT LEVEL – VU Meter indicating volume with CLIP indicator.
- (3) INPUT 2 PHANTOM POWER – Toggles Phantom Power on Input 2.
- (4) INPUT 2 MIC BUTTON – Toggles Line-Level and Mic Level on Input 2.
- (5) INPUT 1 PHANTOM POWER – Toggles Phantom Power on Input 1.
- (6) INPUT 1 MIC BUTTON – Toggles Line-Level and Mic-Level on Input 1.
- (7) MUTE BUTTON – Mutes microphones 2-12 only.
- (8) FORCE INSTRUCTION MIC ON – Mixes microphone 1 with one of the other microphones 2-12 at all times.
- (9) INSTRUCTOR PRIORITY – Gives the instructor the ability to take control from the other microphones.
- (10) PUSH-TO-TALK MODE – Toggles between Push-To-Talk and Voice Activated.
- (11) HIGH GATE THRESHOLD – Adjusts the threshold at which the Voice Activated function can trigger from microphone.
- (12) LOW GATE THRESHOLD – Adjusts the trigger at which the Push-To-Talk function can be triggered.
- (13) EQ – Adjusts the gain of certain frequencies of the output.
- (14) MASTER OUTPUT – Adjusts the output gain of the entire MicVIEW system.
- (15) LINK LIGHT – Indicates that the system is linked to additional MicVIEW systems.
- (16) INPUT LEVEL ADJUSTMENTS – Adjusts the gain of specific microphone inputs.

MicVIEW Back Panel



Setting Up the MicVIEW

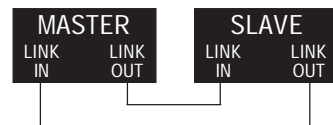
1.) Connect the (+), (-), and (S)hield pins on microphone Inputs 1-12 to the respective microphones.
 • Microphones 1 and 2 can be switched to line-level or mic-level with or without phantom power. Press the Input x Mic button on the front to toggle between mic-level and line-level, and press Input x Phantom Power to toggle phantom power ON/OFF.

2.) Connect the (+), (-), and (S)hield pins on the Line Output to the line-level on a codec or amplifier.
 • To connect the line output to a phono cable, connect (+) to the center pin on the phone cable and the (S) on the MicVIEW to the negative wire on the phone cable.

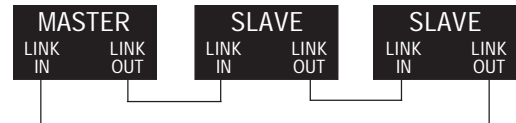
WARNING

DO NOT connect (-) and (S) together as they may damage the MicVIEW.

3.) The MicVIEW units can be linked together by standard Straight-through 6-Pin RJ-11 cables. The Link light will illuminate when the link is correctly established.
 • If two MicVIEW units are to be used together, connect the Link OUT of the Master system to the Link IN of the slave unit (see figure at right). Continue by connecting the Link OUT of the slave unit to the Link IN of the Master system.



• If multiple MicVIEW units are to be used together, (up to eight units) connect the Link OUT of the Master system to the Link IN of the slave unit (see figure at right). Continue by connecting the Link OUT of the slave unit to the LINK IN of the second slave unit. Connect the Link OUT of the last slave to the LINK IN of the Master system.



• *To Configure as a Slave Unit* – Disconnect the power. Press and hold Input 2 Mic/Line and Instructor priority while reconnecting power.

NOTE: In multiple unit setup only one unit can be configured as the Master.

• *To Configure as a Master* – Disconnect the power. Press and hold Input 2 Phantom Power and Push-To-Talk while reconnecting power.

NOTE: Only the Master unit will provide Audio Output

continued on next page.

Setting Up the MicVIEW (continued)

- 4.) If the MicVIEW is to be used with an external system where it is necessary to know which microphone is active such as the Vaddio ControlVIEW, connect the Microphone Logic Outputs to the corresponding input connections on the external device.
- 5.) Press the Push-To-Talk button to switch between Push-To-Talk mode (light ON) and Voice Activated mode (light OFF).
- 6.) Adjust the Gate thresholds to set the gating for optimum performance by turning the screw terminal to the left or right to adjust sensitivity. For Push-To-Talk mode, adjust the Low Gate threshold and for Voice-activated mode, adjust the High Gate threshold.
- 7.) Adjust the Input Level adjustments to adjust the volume of each microphone.
- 8.) Adjust the 5-Band Graphic Equalizer for best sound quality for the application by turning the control to the left or right.

OPERATION

- Voice Activated – Turn on all microphones. Turn OFF Push-To-Talk mode (light OFF). adjust the Gate Threshold so the ambient noise does not cause a microphone to trigger. One configured for voice activated mode, there is no need for user intervention. The loudest voice gets control.
- Push-To-Talk (PTT) – Set all microphones to Push-To-Talk (PTT). Turn ON PTT mode on the MicVIEW (light ON). Adjust the threshold. In PTT mode, a user must press the PTT button on the microphone and speak into the microphone. When the user is finished speaking, the user must release the PTT button.

Care and Cleaning

- Do not attempt to take this device apart. There are no user-serviceable parts inside.
- Keep this device away from food and liquid.
- To clean the exterior, wipe with a damp cloth. Do not use abrasive chemicals.

Operating and Storage Conditions

- Do not store or operate this device under the following conditions:
- A temperature above 104°F (40°C) or below 32°F (0°C)
 - Environments with high humidity
 - Dusty environments
 - In inclement weather
 - Under severe vibration

Technical Specifications

Analog Audio Input	(2) Selectable Microphones/Lines (10) Microphone Inputs
Phantom Power	+24.0 VDC
Analog Audio Output	– 1 Output Channel – Line Level, Variable, 100 Ω Termination
Signal to Noise (Line Level Throughput)	>80dB
Frequency Response	20-15,000 Hz
Control Interfaces	
Front Panel Push Button	Mic/Line, Master/Slave, Switching Mode
Serial Remote Control	COMM1 (Rear Panel 9-Pin D, Male) RS-232D
Mixer Link	RJ-11-6, Straight Through Cable
Audio Connections	Removable 5.5mm Circular Connectors
Power Requirements	12 VDC, 750mA External Plug-in, Universal AC Input Supply
Weight	3.54lbs/1.6kg
Dimensions	
Depth	6.25"/15.9cm
Width	16.75"/42.6cm
Height	1.75"/4.45cm
Power Supply	12 VDC, 750mA

Problem	Suggestion
<p>The system doesn't recognize a voice when someone speaks in voice activated mode.</p>	<p>Make sure the microphone is connected to the MicVIEW and it is on.</p> <p>Turn OFF the Push-To-Talk mode.</p> <p>Check Threshold level. Turn the threshold to the left to reduce sensitivity and to the right to increase sensitivity.</p> <p>The MicVIEW uses 24V phantom power. Make sure the microphones can accept 24V phantom power.</p> <p>If the microphone is Microphone 1 or Microphone 2, make sure the phantom power is turned ON and the input is set to Microphone level.</p>
<p>The system doesn't recognize a voice when someone speaks in Push-To-Talk mode.</p>	<p>Make sure the microphone is connected to the MicVIEW and set to Push-To-Talk mode.</p> <p>Verify the MicVIEW is in Push-To-Talk mode (light should be ON).</p> <p>Make sure the Push-To-Talk button is depressed when speaking.</p> <p>Check Threshold level. Turn the threshold to the left to reduce sensitivity and to the right to increase sensitivity.</p> <p>The MicVIEW uses 24V phantom power. Make sure the microphones can accept 24V phantom power.</p> <p>If the microphone is Microphone 1 or Microphone 2, make sure the phantom power is turned ON and the input is set to Microphone level.</p>
<p>The system seems to recognize</p>	<p>Check the Master output. Turn the master output to the left to decrease volume, to the right to increase volume.</p> <p>If a microphone is connected to input one or two, check to see that the Mic level has been selected.</p> <p>If a device with a line-level output is connected to input one or two, check to see that Mic level has been turned OFF.</p>

continued on next page.

Troubleshooting

Problem	Suggestion
The system doesn't recognize a voice when someone speaks in voice activated mode.	Each input has an individual gain. Adjust the Input level adjustment to the left to reduce the gain or to the right on increase the gain of a specific input.
Input one works but the rest do not.	Make sure the Local Student mute is not enabled.
Audio output quality is poor, but volume is good.	Adjust the 5-Band equalizer to improve sound quality.
Link does not appear to work.	<p>Make sure to use 6-Pin, RJ-11 cables to connect the MicVIEW Link. Although the connectors look like a telephone cord, the system requires six (6) wires to function.</p> <p>The Link uses a Master-Slave setup. The MicVIEWs in the Link must be configured as Slaves and the main unit must be configured as a Master.</p> <p>Connect the Link OUT on the secondary MicVIEW to the Link IN on the primary MicVIEW.</p>

Declaration of Conformity

In accordance with ISO/IEC Guide 22 and BS 7514:

Manufacturer's Name: Vaddio

This product complies with the requirements of the EMC Directive 89/339/EEC.

- **Electromagnetic Emissions:**
CFR 47: 1999 § 15.107 and § 15.109 Class B
- **Immunity:**
EN 55024 1998

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions.

- 1.) This device may not cause harmful interference.
- 2.) This device must accept any interference received, including interference that may cause undesired operations.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Also, a class B digital device meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Warranty Information

Warranty Information on Hardware* – One (1) year limited warranty on all parts. Vaddio warrants this product against defects in materials and workmanship for a period of one (1) year from the date of purchase. If Vaddio receives notice of such defects during the warranty period, Vaddio will either, at its option, repair or replace products which prove to be defective.

Exclusions – The above warranty shall not apply to defects resulting from: improper or inadequate maintenance by customer, customer-supplied software or interfacing; unauthorized modifications or misuse; operation outside of the environmental specifications for the product; use of incorrect power supply; or improper site operation and maintenance.

Obtaining Warranty Service – To obtain warranty service, products must be returned to a service facility designated by Vaddio. Customer shall prepay shipping charges for product(s) returned to Vaddio for warranty service and Vaddio shall pay for return of the product(s) to customer. However, customer shall pay all shipping charges, duties and taxes for product(s) returned to Vaddio from another country.

Vaddio's Customer Service – If the camera is still under warranty, Vaddio will test, repair or replace the product(s) without charge. If the camera is out of warranty, Vaddio will test, then repair the product(s) for the cost of parts and labor. Charges will be estimated by a technician and confirmed by the customer prior to repair. All camera components must be returned to be tested as a complete unit. Repair time for all cameras is a maximum of two business days from receiving to outbound shipping. Vaddio will not accept responsibility for shipment after the camera has left the premises.

Vaddio's Technical Support – Vaddio's technicians will determine and discuss with the customer the criteria for repair costs and/or replacement. Contact Vaddio's Technical Support through one of these sources: Phone: 763-971-4400; E-mail:

RMA Number (Return Merchandise Authorization Number) –

Before returning a product for repair or replacement, request an RMA number from Vaddio's Technical Support. Provide the technician with a return phone number or E-mail and a shipping address. Describe the product(s), provide serial number(s), the reason for repair or return, and the date of purchase. Include your assigned RMA number on all correspondence with Vaddio. Write your assigned RMA number on the outside of the box when you return the camera.

Voided Warranty – This warranty does not apply if the Vaddio serial number has been removed or if the product(s) has been disassembled or damaged through misuse, accident, modifications or unauthorized repair.

Shipping and Handling – Vaddio will not pay for inbound shipping, transportation or insurance charges, or accept any responsibility for loss and/or damage from inbound transit. Vaddio requires that all overseas returns are shipped via UPS. Vaddio will pay for outbound shipping, transportation and insurance charges but will not assume responsibility for loss and/or damage by the outbound freight carrier.

Products Not Under Warranty – Payment arrangements are required before outbound shipping for all products that are out of warranty.

*Vaddio manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry-standard practices.



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