TECH SPEC

TRIO Mic I/O and TRIO Mic Arrays



Breakout Interface for use with TRIO Acoustic Echo Canceling Microphones

Overview:

The Vaddio™ TRIO Mic I/O interface enables the TRIO Acoustic Echo Canceling (AEC) Microphones to be used with any automixer or professional audio mixer. Connect the TRIO Ceiling or Table Mics to the TRIO Mic I/O interface and instantly make any mixer capable of Acoustic Echo Cancellation for use in conferencing applications.



Vaddio TRIO Table and Ceiling Microphones incorporate SmartMic technology along with built-in DSPs for the ultimate in simple control and maximum performance. The technology integrates automatic microphone mixing, wideband echo cancellation, noise reduction, and automated gain control into the microphones and eliminates the need for super expensive, hard to program and hard to operate conferencing mixers.

Like many Vaddio products, a simple Cat-5 cable connection and no clumsy software configuration makes the TRIO microphones as simple to install as traditional boundary or celling microphones. The TRIO Mic I/O connects up to four (4) TRIO Mic Arrays over Cat-5 cables. The Cat-5 cable carries power to the microphone and returns the processed audio from the TRIO Mic. The TRIO Mic I/O has four (4) individual line level balanced outputs, each representing the echo canceled audio channel from the individual TRIO mics. An AEC reference input channel is provided on the rear panel for connection to the far-end audio signal coming into the conference room. The AEC Reference channel is required for the TRIO mic to cancel out the far-end audio from going into the room mics and echoing back to the far-end.

The TRIO Table and Ceiling Mic Arrays each have three (3) mic elements providing a 360° pickup pattern and connect to the TRIO Mic I/O with a Cat-5 cable. The TRIO Ceiling Mic has a plenum safe sealed enclosure for the electronics and a 36" (914.4mm) adjustable drop cable to a 2.5" (63.5mm) spherical shaped mic array. The TRIO Ceiling Mics come in either a dark charcoal or a white version. The combination of the TRIO Mic I/O, the TRIO Table Mics or the TRIO Ceiling Mics, turns any mixer into an automatic mixer with wideband echo cancellation, noise reduction, and automated gain control.

Image: TRIO Mic I/O Front Panel



Image: TRIO Mic I/O Rear Panel

Opt. Accessories



SPECIFICATIONS - TRIO Mic I/O Interface Part Numbers 999-8535-000 (North America), 999-8535-001 (Int'l) Frequency Response: 20 Hz to 20kHz, Dynamic Range: >90dB, THD + Noise: < 0.02% Audio Specs Line Outputs Four (4) 3-Pin Balanced, Line Level Outputs AEC Reference Input One (1) 3-Pin Balanced, Line Level Input TRIO Mic Ports Connectors: Four (4) RJ 45 jacks, proprietary Interface with audio, power & control, approx.100' (30.48m) Cat-5 cable distance 18 VDC, 2.75 Amp, Positive Center Power Supply Power Consumed Maximum of 40 Watts Operating Temp. 32° to 104° F (0° to 40° C) / 20% to 80% Relative Humidity 8.375" (212.7mm) W x 1.72"" (43.7) H x 6.0" (152.4mm) D / 1.45 lbs. (0.657708956434 kg) Dimensions / Weight Included: Power Supply, Five (5) 3-Pin 5.0mm Phoenix-type Connectors Accessories

Optional: Rack Mount Kit 1sp: 998-6000-004



The TRIO Acoustic Echo Canceling Microphones

The TRIO I/O and TRIO Microphones with SmartMic technology add digital signal processing and echo cancellation to any automixer or professional audio mixer. TRIO mics are available in two versions:

The TRIO Table Mic Array

- Attractive AEC table microphone array
- Three (3) mic elements providing a 360° degree pickup pattern
- Connects to the TRIO Mic I/O with a single Cat-5 cable that carries audio and power. A Cat-5 Cable is included (25' / 7.62m).

The TRIO Ceiling Mic Array

Power Consumption

- Small 2.5" (63.5mm) AEC microphone array blends into room décor.
- 360° Coverage pattern created with three (3) mic elements
- Includes a plenum safe interface box, tile support brace and an adjustable 36" long cable to the microphone array head.
- The TRIO Ceiling Mics (mic and cable) available in black and white.

Pair the TRIO Mics with the TRIO Mic I/O interface to produce up to four (4) standard balanced line level output channels and simply connect the inputs of the room audio mixer. Connecting a single echo canceling reference channel (far-end audio) from the room mixer to the TRIO Mic I/O completes the interface connection with any audio mixer.



TRIO Table Mic Array



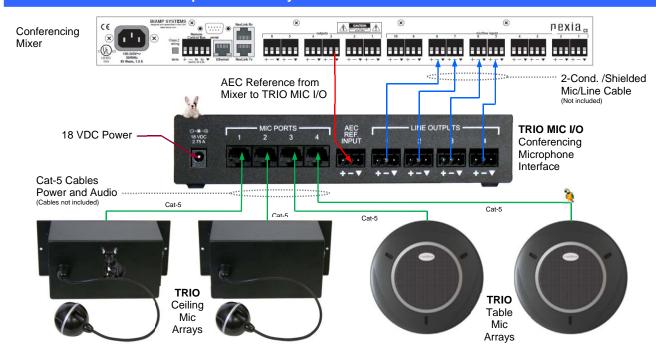
TRIO Ceiling Mic Arrays (white left, black right)



TRIO Ceiling Mic with Above-ceiling electronics enclosure, drop cable and 2.5" spherical array (mic shown in black with black cable)



TECHNICAL IMAGES - Simple Connectivity



SPECIFICATIONS - TRIO Table and Ceiling Mic Arrays TRIO Table Microphone: 999-8850-000, TRIO Ceiling Microphone: 999-8860-000 (White), 999-8865-000 (Black Part Numbers Audio Specs Frequency Response: 20 Hz to 20kHz, Dynamic Range: >90dB, THD + Noise: < 0.02% Microphones Specs Three unidirectional cardioid elements per device, Frequency Response: 100-12kHz, Max Input Level: 115dB/SPI Signal Processing Acoustic Echo Cancellation, Noise Reduction, Microphone Gating and Automatic Gain Control TRIO Mic Port One (1) RJ 45 Connector on each Mic, Proprietary Interface with audio, power and control up to 100' (30.48m) over Cat-5 cable Dimensions TRIO Ceiling Mic: 2.5" (63.5mm) Diameter Sphere, Trio Table Mic: 7"(177.8mm) Diameter x 1" (25.4mm) Tall TRIO Ceiling Mic: 0.113 lbs., TRIO Table Mic: 0.472 lbs. (0.214 kg) Weight Operating Temp. 32° to 104° F (0° to 40° C) / 20% to 80% Relative Humidity

Learn more about our cameras, audio devices and controllers at 800-572-2011 or vaddio.com

Less than four (4) watts per mic

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