

EasyTalk™

Optional Wireless Audio Interface for AutoTrak 2.0

The optional EasyTalk Wireless Audio Interface System expands audio capabilities for the AutoTrak 2.0 Automated camera tracking system. Key features of the EasyTalk Wireless Audio Interface include:

- HD Wireless Link with Adaptive Frequency Hopping (AFH) for interference free operation.
- USB Audio Output on Wireless Audio Interface allowing connection to a PC for Skype Applications.
- Works in conjunction with the integrated unidirectional microphone in AutoTrak 2.0 IR Lanyard and with the rechargeable AutoTrak 2.0 Belt Pack transmitter that features a lithium-ion battery pack for extended hours of operation.

The AutoTrak Wireless Audio Interface is a wireless receiver that works in combination with the AutoTrak 2.0 IR Lanyard and Belt Pack. The AutoTrak 2.0 IR Lanyard's central medallion contains a high quality unidirectional microphone and the belt pack uses an HD wireless transmitter with AFH technology that can be turned on or off. The presenter's speech is sent to the optional EasyTALK Wireless Audio Interface specifically designed for use with the AutoTrak 2.0 System.

The receiver has a balanced or unbalanced line level output for connection to an amplifier, videoconferencing codec or other room A/V equipment. In addition, the receiver has a USB audio output that can be directly connected to a PC emulating a microphone and speaker device for use with Unified Communication clients such as Skype, Microsoft Lync, Google+ and others. Front panel controls allow the user to mute or adjust output volume level. The back-panel GPIO is used for volume and mute functions that can be wired to external control systems.

The Belt Pack, which is part of the AutoTrak 2.0 system, includes the 2.4 GHZ frequency hopping radio capable of transmitting full spectrum audio [20HZ to 20KHZ]. Advanced radio protocols such as adaptive frequency hopping and forward error correction ensures reliable communication and coexistence with other devices in the band. The Belt Pack includes a rechargeable lithium-ion battery pack allowing extended operations. Charging is accomplished with a micro-USB power supply or by simply plugging it directly into a USB port on a PC.

The AutoTrak Wireless Audio Interface incorporates user selectable digital signal processing (DSP) functions to meet application needs associated with the classroom. Functions include Automatic Gain Control, Speaker Equalization, Compressor, and Microphone Filtering.

Collectively, the AutoTrak Wireless Audio Interface System adds pristine sound quality to the Vaddio AutoTrak 2.0 Camera Tracking System assuring the Instructor's speech is heard by all students locally or in remote classrooms.



Wireless Audio Interface

INCLUDES

- AutoTrak Wireless Audio Interface Receiver
- USB Charger and USB Cable
- 12 VDC Power Supply and Power Cable
- Documentation



Belt Pack and Lanyard, Comes with AutoTrak 2.0 System

TECHNICAL FEATURES

Analog Audio Outputs

The Wireless Audio Interface Receiver has simultaneous balanced (+4dBu) and unbalanced (-10dBu) outputs for connection to room A/V equipment.

USB Audio Interface

The Wireless Audio Interface is also a USB 2.0 compatible audio peripheral device that emulates a microphone and speaker to the PC.

HD Wireless Microphone

Full-band wireless microphone is incorporated into the IR Lanyard. The microphone element is a noise cancelling, unidirectional element that minimizes ambient room noise.

TECHNICAL FEATURES CONTINUED

2.4 GHZ FHSS Radio Link	The system uses a Digital Radio Link with HD Audio between belt pack and receiver. The radio link operates up to 100' (30.48m) line of sight and uses license free ISM band for worldwide operations.
Advanced Digital Signal Processing and Controls	The Wireless Audio Interface System has DSP functions for audio conditioning that may be desired in some room applications. The front panel includes Mute and Volume Controls. Radio Pairing buttons on both Belt Pack and Receiver establish the radio link. Dip switch settings on the rear panel control advanced audio processing functions.
Easy Integration	Combine with AutoTrak 2.0 camera tracking system along with room's sound system to create a complete classroom A/V system or presentation environment.
Made in USA	The Autotrak Wireless Audio Interface is made in the USA, at Vaddio headquarters, Minneapolis, Minnesota.

REAR PANEL CONNECTIONS



SPECIFICATIONS

Part Numbers	AutoTrak Wireless Audio Interface 999-7230-000 (North America) AutoTrak Wireless Audio Interface 999-7230-001 (International)
Audio Specifications	Frequency Responses: 20 HZ to 20KHZ Dynamic Range: >75dB THD + Noise: <.02%
Analog Line Output	Connector: XLR (Balanced) & RCA (Unbalanced) Impedance: 50 ohm (Balanced) & 10Kohm (Unbalanced) Nominal Level: +4dBu (Balanced) & -10dBu (Unbalanced)
USB Audio Interface	Connector: Type-B Type: USB 2.0 Compliant PC Controls: Mute & Volume
Radio Link	Type: Adaptive Frequency Hopping Spread Spectrum Frequency Range: 2400 to 2483 Antenna: Monopole Maximum Power Output: 5dBm Receiver Sensitivity: -83 dBm
Audio Processing Settings	8-Position Dip Switch for Compressor, Speaker EQ Filter, Mix Mode
User Controls	Power Button, Volume Up/Down, Microphone Mute, Pairing Button, LED Indicators, VU Meter
GPIO	Inputs: Mute Control, Volume Up, Volume Down (Active Logic Low) Outputs: Mute Status
Receiver Power Supply	Connector: 5.5mm OD X 2.5mm ID coax receptacle Supply: 12Vdc, 1.0 Amp
Serial Code Protocol	RS-232 (Firmware Updates & ASCII Control)
Dimensions (HxWxD)	Receiver: 1.72" (43.68mm) H X 18.93" (480.82mm) W X 6" (152.4mm) D with Rack Ears attached
Weight	3.3 lbs (1.5 kg)
Power Consumption	Maximum 12 watts
Operating Temperature	32° to 104° F (0° to 40° C)
Microphone	Type: Unidirectional Condenser Microphone *Comes with AutoTrak 2.0 Lanyard Frequency Response: 100HZ to 12KHZ Max Input Level: 115dB SPL
Belt Pack Battery	Type: 4400mAh Lithium Ion *Comes with AutoTrak 2.0 System Typical Talk Time: > 18 hours Typical Full-Charge Time: @ 9 hours (from dead battery)

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