

# whirlwind

## THS 3 & THS 4

Talkback Headphone Series



### THS 3 and THS 4 features include:

- Two headphone signal inputs can be assigned to either or both ears
- Balanced or unbalanced inputs on XLR or ¼" TRS jacks
- THS 3 volume controls adjust the left and right **headphone levels** separately
- THS 4 volume controls adjust **input 1 and input 2 levels** to both left and right ears
- Passive Mic Out for on-air reliability
- Mic output switching is completely silent
- Active line level Talkback Out with level adjust
- Mic On, Cough and Talkback switches for control
- ¼" TRS or 3.5mm headphone jacks
- 12 VAC power adapter included

### THS 3 and THS 4

The Whirlwind THS series of sports announcer boxes combine high quality headphone amplification with various microphone control options in rugged metal desktop chassis. THS boxes are ergonomically designed to put the control buttons within easy reach of the announcer even while shuffling through stat sheets.

The THS 3 and THS 4 are identical except for the way the volume controls operate. The THS 3 controls are labeled LEFT and RIGHT and adjust the left and right headphone earpieces independently. The THS 4 volume controls are labeled INPUT 1 and INPUT 2 and set the same level in both ears for that input, when selected by the input assign switches.

The THS 3 and THS 4 Talkback/Headphone box are all-purpose, fully loaded sports announcer consoles. Both main and talkback microphone outputs are provided, with three switches for control. A latching Mic On/Off switch connects signal to the mic output. The switch is illuminated red when the mic output is live. Two types of onboard condenser microphone power are available, enabling seamless switching when talkback is activated. A three way switch selects either phantom or "T" power and is recessed to avoid accidental turn off. A momentary Cough switch silences both the mic out and the talkback out when depressed.

The talkback circuitry featured in the THS 3 and THS 4 provide an off-air channel for booth communications. The announcer's microphone is sent through a preamp and line driver that deliver signal to the talkback output at line level. There is a level control for fine adjustment of the audio sent down the talkback line. The momentary Talkback switch connects audio to the talkback output and mutes the mic out. The Talkback switch illuminates green when depressed.

The headphone section of the THS 3 and THS 4 has two inputs. Each input can be assigned to left, right or both ears. Input signals can be either balanced mono or unbalanced stereo. A rear panel switch selects the proper mode. Both 3 pin XLR and ¼" TRS input jacks are provided for hookup flexibility. The headphone amplifiers are designed to deliver powerful, undistorted audio that can be heard over an arena full of screaming fans. Headphones with impedances ranging from 30 to 600 Ohms can be driven to full volume. Most announcer headsets fall between 100 and 600 Ohms. Headset connections are made through a 3 pin female XLR for the microphone and both ¼" and 3.5mm TRS jacks are provided for the headphones.

Power is supplied by a 12 VAC power adapter, included with the unit. A front panel green LED indicates that power is on. The main microphone output of the THS 3 and THS 4 will be live on-air if power is lost, when using dynamic microphones.

#### Warranty

This product is guaranteed for 2 years from the date of purchase against manufacturing defects. For warranty service, return the unit, along with the original sales receipt, to: whirlwind, 99 Ling Road, Rochester, NY 14612, postage prepaid. We will repair or replace the unit at our option and pay the return postage.

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## THS 3 detail



### Controls and Connectors

1. Mic On switch is a latching type that turns the mic on when depressed. A red light indicates that the mic is live.
2. Mic In jack connects the headset microphone to the Cough and Talkback circuits and to the Mic Out jack.
3. Phantom power switch applies phantom power (UP) or electret "T" power (DOWN), with center (OFF) for dynamic mics, to the Mic Input when required for condenser microphones.
4. Phones jacks connect to the headset earpieces. Both 1/4" and 3.5mm TRS jacks are provided. Tip is left and Ring is right.
5. Cough switch is a momentary type and mutes the mic to both the Mic and Talkback Outputs while pushed in.
6. THS 3 **Left** volume control adjusts the volume of the **left earpiece**.  
THS 4 **Input 1** volume control adjusts the level of **input 1** fed to the Input Assignment switches
7. Input Assignment switches route Inputs One and Two to left, right or both earpieces.
8. THS 3 **Right** volume control adjusts the volume of the **right earpiece**.  
THS 4 **Input 2** volume control adjusts the level of **input 2** fed to the Input Assignment switches
9. Talkback switch applies the headset microphone to the Talkback Out and mutes the main Mic Out. The Mic On switch does not affect the talkback output.
10. Power LED illuminates when the unit is receiving power (12VAC, 600mA).
11. Mic Out jack is the mic level output from the headset microphone.
12. Talkback Out is a transformer balanced, line level XLR jack with a level control for adjusting amount of the talkback signal sent down the line. The transformer also provides isolation. An internal jumper is provided to disconnect pin 1 ground from the talkback output, if required.
13. Input Mode switch chooses between balanced mono input signals on individual connectors or unbalanced stereo signals with left and right feeds in the same connector.
14. Inputs 1 and 2 have a female XLR and a 1/4" TRS jack that are parallel wired with pin 2 wired to tip, pin 3 wired to ring and pin 1 connected to shield. Balanced mono or unbalanced stereo input signals can be applied to either jack. Set the Input Mode switch for proper operation. In unbalanced stereo mode, all four input jacks are all paralleled together, which could provide a loop through function.
15. Power jack accepts 12VAC at 600mA on a 2.1mm barrel plug. Model PS12AC1A power adapter included.

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