

## Talkback Headphone Series Sports Announcer Box For RTS® Systems



- RTS® compatible 3 pin XLR input configured for "Wet" IFB (24-30VDC)
- Input Assign switches route inputs to either or both ears
- Individual volume controls for interrupt and non-interrupt inputs
- Transformer isolation on both inputs and talkback out
- Passive Mic Out for on-air reliability
- Mic output switching is completely silent
- Active line level Talkback Out with level adjust
- Cough and Talkback switches for control
- ¼" TRS or 3.5mm headphone jacks
- PS12AC1A power adapter included for external power

### Model THS R

The THS R Talkback/Headphone box is a specialized sports announcer console with both main and talkback microphone outputs, designed to operate with RTS® IFB systems. The microphone signal is always live at the main output unless the Talkback or Cough switch is depressed. If power to the THS R is lost, the mic signal will still pass with dynamic mics and with condenser mics if phantom power is provided from the host console. 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.

The announcer's microphone is sent through a preamp and line driver that deliver line level signal to the talkback output when the momentary Talkback switch is activated, also muting the mic out. There is a level control for fine adjustment of the audio sent down the talkback line. A momentary Cough switch silences both the mic and talkback outputs when depressed.

The headphone section of the THS R has two inputs. Each input has a volume control and dip switches to send the signal to the left and/or right headphone earpieces. When an input is assigned to both ears, level adjustments affect both left and right ears equally. Both 3.5mm and 1/4" TRS jacks are provided for hookup flexibility. Headphones with impedances ranging from 30 to 150 Ohms can be driven to full volume. 600 Ohm headphones can be used with a slight reduction in volume due to "Wet" IEB current limitations.

The THS R receives both power and input audio through a female 3 pin XLR from a "Wet" RTS® compatible IFB system. Positive 24-30VDC power and interrupt audio are on Pin 2 and non-interrupt audio is on Pin 3. Pin 1 is power ground and audio shield. Transformer isolation is provided for both IFB inputs and the talkback output. The high quality audio transformers provide signal and power isolation and ground loop reduction for both the interrupt and non-interrupt inputs as well as line balancing for the talkback output. The THS R can also be locally powered. A rear panel switch selects "Wet" IFB or external power supplied by a 12 VAC power adapter, model # PS12AC1A, included with the unit. Typical current consumption from the IFB line is 85mA. Maximum draw is 110mA.

## Warranty

This product is guaranteed for 10 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.

**whirlwind**

99 Ling Road Rochester, NY 14612 · Ph. 585 663-8820 Fax 585 865-8930 · sales@whirlwindusa.com  
www.whirlwindusa.com

# THS R

DETAIL



## Controls and Connectors

1. 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.
2. Talkback switch (momentary) applies the headset microphone to the Talkback Out and mutes the main Mic Out when depressed.
3. Interrupt volume control adjusts the level of XLR Pin 2 input fed to the Input Assignment switches.
4. Input Assignment switches individually route Interrupt and Non-interrupt audio to left, right or both earpieces.
5. Non-interrupt volume control adjusts the level of XLR Pin 3 input fed to the Input Assignment switches.
6. Cough switch is a momentary type and mutes the mic to both the Mic and Talkback Outputs while pushed in.
7. Power LED illuminates when the unit is receiving power either from "Wet" IFB or external power jack (12VAC, 600mA).
8. Phones jacks connect to the headset earpieces. Both 1/4" and 3.5mm TRS jacks are provided. Tip is left and Ring is right.
9. Mic In jack connects the headset microphone to the Cough and Talkback circuits and to the Mic Out jack.
10. Mic Out jack is the always live on-air mic level output from the headset microphone. Dynamic mic signal will continue to be live even if power to the THS R is lost.
11. 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 and allows Pin 1 to be permanently lifted from ground to eliminate the possibility of ground loops.
12. Input female XLR is unbalanced line level with Pin 2 receiving positive 24-30VDC power with interrupt audio, Pin 3 receiving non-interrupt audio and Pin 1 as power ground and audio shield. Both inputs are transformer isolated for ground hum reduction and power isolation.
13. Chassis Lift switch disconnects audio ground from the enclosure. Use Chassis Lift and connect unit externally with the provided thumbscrew to Earth for maximum RF rejection.
14. External power jack accepts 12VAC at 600mA on a 2.1mm barrel plug. Model PS12AC1A power adapter included.
15. Power Mode switch chooses between power supplied by the IFB line through the XLR connector or the external power jack. Typical current consumption from the IFB line is 85mA. Maximum draw is 110mA. External power option is recommended if long lines present too great a power loss from the IFB supply.

RTS® is a registered trademark of Robert Bosch GmbH.

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