

# SONIFEX

TB-6D & TB-6R  
6 Way Talkback Intercoms

# Catalogue <sup>2016</sup>





## TB-6D & TB-6R 6 Way Talkback Intercoms



**Category:** Talkback Intercoms.

**Product Function:** Provides communication & talkback between up to 7 studios/areas.

**Typical Applications:** Talkback within a facility or outside broadcast vehicle.

**Features:**

- Up to 7 areas can be connected.
- DC signalling system.
- Momentary & latched button operation.
- Built-in electret mic.
- Front panel mic optional.
- 2 stereo external inputs.
- Built-in loudspeaker.
- Headphones with level control.

The Sonifex Talkback Intercoms provide a cost effective way of enabling talkback between up to 7 areas in a studio complex.

Talkback refers to the standard method of communication between broadcast studios.

Each studio can have either a desktop, a rack-mount, or mixer-mounted intercom, usually containing a row of switch buttons.

Each switch button connects to another studio when pressed, and routes the presenter audio to it.

There are 2 products in the Sonifex Talkback Intercom range :

**TB-6D** 6 Way Talkback Intercom, desktop free standing

**TB-6R** 6 Way Talkback Intercom, 19" rack mounted

The TB-6D and TB-6R are general talkback interfaces which can be connected together to form a talkback system.

The TB-6D and TB-6R are used for general talkback between studios and use DC signalling, also known as ground lifting or ground signalling, to communicate with each other. These units can be installed in various locations throughout a studio complex and linked to one another, with each unit being able to talkback to up to 6 others connected together.

Most other talkback systems in general operation also use DC signalling, so you should be able to add these units into an existing installation.

### Desktop Or Rackmount

The TB-6D and TB-6R are identical in operation, with the TB-6D used for desktop operation and the TB-6R available as a 2U rack-mount, for use for example, in a central apparatus room or central technical area.

### Talkback For Up To 7 locations

Up to 7 locations or studios can communicate with each other.

On each panel, there are 6 front panel buttons for talkback selection and 2 for external inputs. When a button is pressed, the button lights up and the talkback is active to that location.



TB-6D 6 Way Talkback Intercom Front View.

### Press & Release, Press & Hold Operation

The buttons work with both a momentary and latched operation. If you simply press the button, talkback will be on and can be cancelled by pressing the button again. If you press and hold the button, the selection is cancelled when released. So, if you wanted to listen to an external input, such as the radio station feed, or off-air monitor, you could simply press the EXT 1 button. If you receive talkback from another studio when the external input buttons are also pressed, the external inputs can be either

muted or mixed, depending on the setting of an internal jumper.

The talkback outputs and input are balanced signals on a 15-way male D-type plug and the talkback input can be adjusted from -28dB to 9dB using a rear panel preset pot.

### Onboard Electret Mic or External Mic

You can speak to the separate locations using the onboard front-panel electret mic or there is a separate external mic input on a 3 pin XLR female connector, into which you can plug a suitable gooseneck microphone. There is a rear panel switch to select

between the electret and separate input mic. The mic input gain range is adjustable via a rear panel preset pot between 74dB and 53dB.

### Monitoring External Inputs

The unit can monitor two external sources. The EXT 1 input is a balanced stereo input on a rear panel 9 pin D-type socket. The EXT 2 input is an unbalanced stereo input on the 9 pin D-type socket as well as dual phono sockets. EXT 1 is useful for monitoring a distributed signal, such as a radio tuner off-air feed, or an outside source routed from an ISDN codec. EXT 2 is useful for

monitoring a local source, such as a portable flashcard recorder/player, or the unbalanced soundcard output from a PC editing/playback package.

If you already use a mixer which has a talkback input and output, or continuous talkback output, or just a line level output which you want to use, by changing internal jumpers the intercom can be configured to use these connections instead of the on-board microphone and speaker/headphones. For example, if you have a mic channel on a mixer assigned to talkback and the presenter is using headphones for monitoring the mixer talkback, the Talkback Intercom can be used purely for talkback switching and for monitoring external inputs.

### Built-in Loudspeaker & Headphones

For monitoring, you can use either the built-in 1W loudspeaker, or headphones on a 6.35mm unbalanced stereo jack. The headphone output provides 150mW into 32-600Ω headphones. When the headphones are used, the speaker is automatically muted. The monitor speaker can be muted via a remote contact on the 9 pin D-type External Input connector, e.g., when used in an area with live microphones. Both monitor and headphone levels are fully adjustable between -60dB and 9dB using the front panel volume control.

TB-6D Rear View.





TB-6R Front View.



TB-6R Rear View.

## Specification For Talkback Intercoms

### Audio & Power Specification

Talkback Input/Outputs:	15 way male D-type plug (TB-6D & TB-6R) for 6 balanced talkback outputs and 1 balanced talkback input
Talkback Input Gain Range:	9dB to -28dB adjusted by rear panel preset pot
External Inputs & Mute:	9 way female D-type socket, for stereo unbalanced external input 1, stereo unbalanced external input 2 (or external talkback input/output), talkback control output and mute input
External Input 2:	Dual phono socket, stereo unbalanced in parallel with the 9 way female D-type socket
External Inputs Impedance:	> 30kΩ unbalanced > 40kΩ balanced
External Talkback Input Impedance:	> 30kΩ unbalanced
External Talkback Output Impedance:	< 80Ω unbalanced
External Microphone Input:	3 pin female XLR socket
Mic Input Impedance:	1.5kΩ balanced
Microphone Input Gain Range:	74dB to 53dB adjusted by rear panel preset pot
Headphone Output:	6.35mm (1/4") jack, unbalanced stereo capable of driving 150mW into 32-600Ω headphones
Headphone Output Gain Range:	9dB to < -60dB (off) adjusted by front panel pot
Loudspeaker Power:	1W
Mains Input Power:	85V - 264V AC, 47-63Hz, max 10W
Fuse Holder:	1A anti-surge fuse
<b>Equipment Type</b>	
TB-6D:	6 way talkback intercom, desk units
TB-6R:	6 way talkback intercom, 19" rackmount
<b>Physical Specification</b>	
Dimensions (TB-6D Raw):	22.5cm (W) x 22.4cm(D) x 9.1cm(H) 8.8" (W) x 8.8" (D) x 3.6" (H)
Dimensions (TB-6D Boxed):	33.0cm (W) x 26.0cm (D) x 15.0cm (H) 13" (W) x 10" (D) x 6" (H)
Dimensions (TB-6R Raw):	48.3cm (W) x 18.5cm (D) x 8.9cm (H)(2U) 19" (W) x 7.3" (D) x 3.5" (H) (2U)
Dimensions (TB-6R Boxed):	52.0cm (W) x 30.5cm (D) x 16.5cm (H) 20.5" (W) x 12" (D) x 6.5" (H)
Weight (TB-6D):	Nett: 1.25kg Gross: 2.5kg Nett: 2.75lbs Gross: 5.5lbs
Weight (TB-6R):	Nett: 2.6kg Gross: 4.5kg Nett: 5.7lbs Gross: 9.9lbs

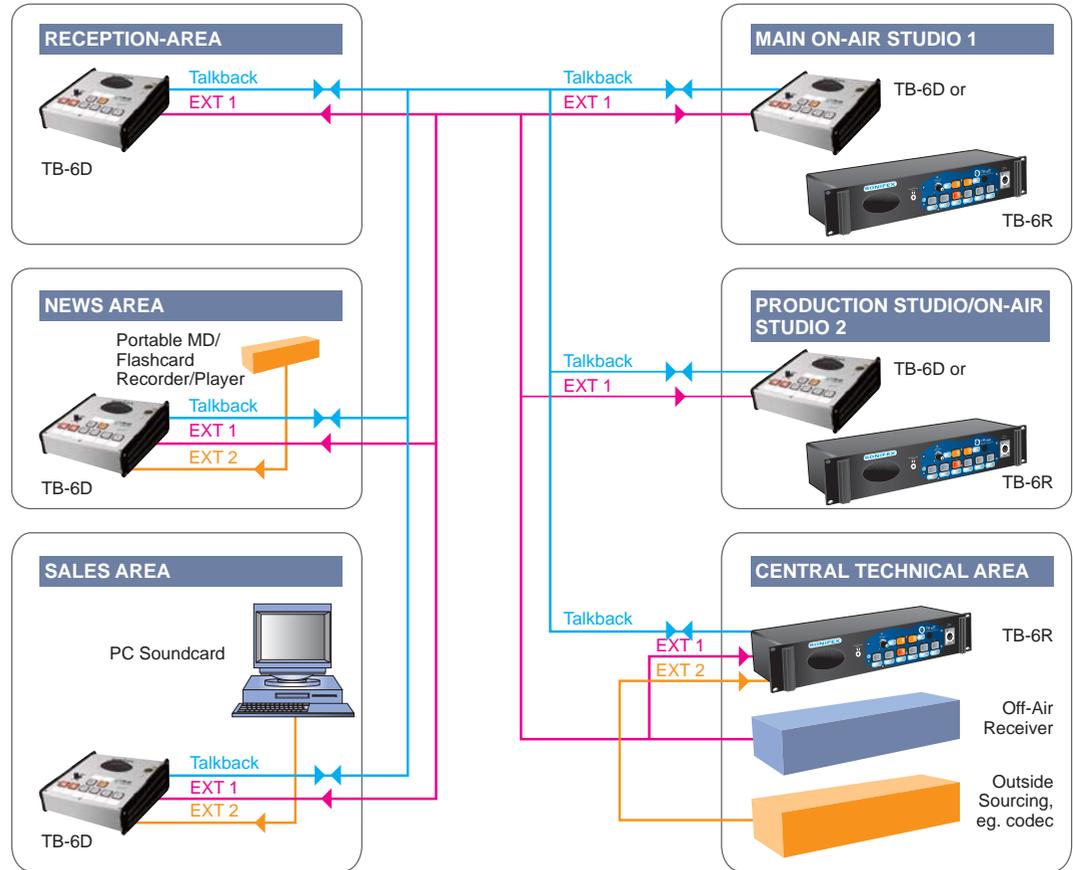
### Radio Studio Application Using TB-6D & TB-6R

A typical application would be to distribute talkback and audio feeds around a radio or TV studio complex, as in this diagram.

The TB-6D and TB-6R units are daisy-chained together from location to location and the radio station output from an off-air receiver is distributed on input EXT 1 of each unit.

The EXT 2 input could be used in the news or sales area for monitoring local sources such as a PC audio output.

Linking the studios in this way allows all locations to talk to each other together with the ability to monitor 2 external feeds, with independent control of monitor muting and headphone/speaker levels.



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