

TALKBOX MANUAL

A portable accessory used with models DSP30 and DSP2 Intelligibility Analyzers: The Talkbox generates STI-PA Test Tones into the voice evacuation system by way of the voice alarm panel's microphone. The test signal, which is contained on a long-playing CD, is played continuously on an integrated CD player through a powered speaker and into the alarm panel microphone. Because the microphone holder is universal, any brand of voice evacuation system with a microphone can be tested. The CD player on the Talkbox has been modified to accurately simulate the use of the voice evacuation system by emergency personnel and ensures that the entire voice system, including the microphone, is tested.

The test tones, developed by TNO Laboratories, make use of the DSP30 or DSP2 analyzers and OPTSTICis™ Software.

The following standard features are supplied:

- STI-PA Test Tone CD
- Built-in CD player (modified)
- Built-in Speaker
- Universal microphone holder (microphone and cable not supplied) which enables testing via voice evacuation system microphones and other microphones
- Line Level output jack
- Volume control
- Detachable shoulder strap

SPECIFICATIONS:

- CD TEST TONES: 60 minutes of STI-PA Continuous and intermittent
- INPUTS: Speaker input: unbalanced 6.5mm, ¼" phone jack
- OUTPUTS: Line Level unbalanced, 6.5mm, ¼" phone jack, 1Vp-p
- CD ACCURACY: .0001% Frequency Accuracy
- FUNCTION CONTROLS: On/Off Switch
- VOLUME CONTROL: Yes
- POWER INTERNAL: Eight "AA" alkaline or nicad batteries
- POWER EXTERNAL: 12Vdc @ 500mA via 2.1mm jack
- APPROVALS: Emissions: EN55022 B - FCC CLASS B
Immunity: EN55024 B
- DIMENSIONS: Size 18" X 7" X 13" (W x H x D)
- WEIGHT: 10 lbs.
- CASE MATERIAL: Reinforced Aluminum

Preparations for use:

The Talkbox may be powered from either the power supply provided, or from 8 AA batteries. If the Talkbox is to be used on battery power:

1. Open the battery compartment by loosening the 4 hold-down screws and sliding the cover off.
2. Install 8 AA batteries, paying attention to the polarity of each battery.
3. Position the switch labeled NIC/ALK to the appropriate position. The switch should be in the ALK position for non-rechargeable alkaline batteries, and in the NIC position for rechargeable batteries.
4. Replace the battery cover

Instructions for use:

1. Open the case lid fully so the lid does not interfere with measurements
2. Turn the power on.
3. Press play on the CD player to start the STI-PA test tone
4. Using an SPL meter set the playback level. For normal speech, this should be 61dBA at 1 meter. Level may be set higher to simulate shouting or lower to simulate quiet talking
5. Attach the PA microphone into the holder, with the cable coming out of the top
6. Close the microphone clamp to grip the microphone and hold the Push To Talk button in the on position.
7. Set the distance between the talker speaker and the PA microphone by sliding the speaker along the channel at the rear of the case. The distance should approximate that of the normal usage for the PA microphone. Typically this would be around 2 inches.

The system will now be playing the test signal through the PA at a level that matches that of the system in normal use.

Additional Features:

A line level output directly from the CD player is available on the panel via the ¼" jack labeled "Test Tone Output" This Output allows the injection of test tones into the sound system.

An external test signal may be injected into the talker speaker through the ¼" jack on the panel labeled "Speaker Input". A signal connected here will disconnect the CD output but may still be adjusted by the volume control.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.