

TWIN-BOX INSTRUCTION MANUAL

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 **ITEC**
itec-audio.com

TWIN-BOX

Dear Customer!

ITEC TWIN-BOX – yet another product in our wide range of mobile, mains independent loudspeaker systems.

The TWIN-BOX offers two possibilities of sound distribution:

1. In two directions - to the front and to the rear: carry the TWIN-BOX with the shoulder strap and use it to expose a group of people to sound.
2. In one direction - using it for sound reinforcements in rooms, halls or outdoors by placing the TWIN-BOX onto the tripod. Simply do the unique „twist“ to change from two-sided to one-sided sound distribution; the two speaker casings will engage automatically in their appropriate positions.

Use the TWINBOX with cable or radio microphones. Music can be played from external devices such as CD or MP3 players. Optionally, a USB player and / or a Bluetooth receiver can be installed.

However you are going to use the versatile TWIN-BOX, you will certainly add the perfect sound to many successful events with this compact, high performance tool so easy to handle.

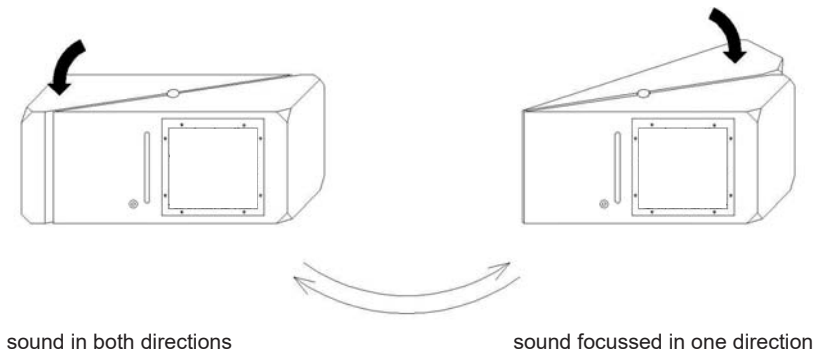
Sincerely,
your ITEC acoustic team

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1. the unique twist

With a simple 180° rotation of the two speaker casings you can change the sound distribution from two directions into one direction.



Attention: an integrated blocking system prevents a full circle. Twist only as indicated above!

2. how to wear the TWIN-BOX

simply click the carrying strap shut in the 2 strap eyes on the top side of the TWIN-BOX. Wear it over your shoulder, one speaker facing the front, the other one the rear. Make sure the controls point outward for your easy and quick access.

3. how to stand the TWIN-BOX

loosen the lower adjusting screw of the aluminium light-weight tripod and open the legs of the tripod (as amply as space allows). Once you have found a solid stand, tighten lower adjusting screw.

mount the TWIN-BOX on the tripod, loosen upper adjusting screw, position the pull-out tube at the height requested and tighten the upper adjusting screw again.

Attention: make sure the TWIN-BOX does not collapse, particularly when it is windy!

4. how to start

general:

turn on the TWIN-BOX by turning the ON/OFF switch (1) to the right (position ON); the ON/OFF indicator light (2) will show.

battery mode:

in case the power supply is not plugged in, the TWIN-BOX will be supplied by an integrated rechargeable battery. The average operating time with a fully charged battery will be 6 to 8 hours.

mains supply:

in case the TWIN-BOX is connected (socket 10) to the mains supply (220V), the red mains indicator (3) will show in addition to the indicator light (2). As soon as you switch off the TWIN-BOX the battery will start recharging immediately with the mains indicator light (3) staying on and the indicator light (2) disappearing (see 12. recharging the TWIN-BOX).

5. using a cable microphone

plug in the cable microphone in the microphone socket (4) and adjust its volume at the volume control for the cable microphone (6). See 13. general advice.

technical information:

the multi-jack microphone socket (3) lets you plug in microphones with XLR or 1/4" jack.

use either dynamic microphones or electret condenser microphones.

connecting balanced microphones: by means of a XLR plug or a stereo 1/4" jack.

connecting balanced microphones with phantom supply: by means of a XLR plug.

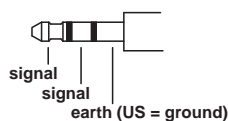
connecting unbalanced microphones: by means of a mono 1/4" jack.

in case you have a long microphone cable, an interference free operation can only be guaranteed when you use both balanced microphones and a balanced microphone cable.

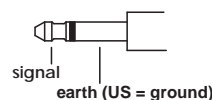
XLR plug, balanced
phantom voltage 12V



1/4" stereo jack, balanced
no phantom voltage



1/4" stereo jack, unbalanced
no phantom voltage



6. playback

the cinch sockets (5A) will accept any tape recorder, CD player, radio, etc. The volume can be adjusted at the corresponding control (7).

7. using a radio microphone

switch on the radio microphone and adjust the volume at the corresponding control (8). See 13. general advice.

when using a radio microphone make sure the batteries are alright:

Using WM-716, WM-802 or TOA: this is the case when the green LED light shows; when the red LED light shows the batteries should be replaced.

see 12. recharging the TWIN-BOX

8. music attenuation (optional)

should your device have an automatic music attenuation the volume of the music playback will be turned down while somebody is speaking. You determine the volume of the attenuated playback by means of the appropriate control (9).

Control position left:	while speaking, the music is turned off completely
Control position middle:	while speaking, the music volume is halved
control position right:	even while speaking, the music volume remains the same, i.e. no attenuation at all.

attenuation adjustment:

while speaking into the microphone adjust the playback volume you want during your announcement.

attenuation will be started when using a radio microphone or cable microphone and takes effect on music playbacks via the line-in socket (external equipment)

9. recording

Connect a tape recorder, MD player or speech mike recording system to the 'PRE OUT' cinch socket (5B). You can record cable microphone, radio microphone and music playback. The output level will depend on how you have adjusted the controls.

10. connecting an external amplifier

the adjusted signal of the 'PRE OUT' cinch socket (5B) may be connected to an external amplifier (see 9. recording). however, in most cases, the integrated radio receiver will be needed. In this case, please plug in the 'HF LINE OUT' (5C) socket. As for volume, be aware that now the signal of the radio receiver/s overrides your volume adjustments.

11. connecting a passive speaker (optional)

socket 11 (optional) can take another passive speaker. It is then connected in series to the integrated speakers and should consequently have an impedance of 4 ohms. We recommend the original ITEC PASSIVE-BOX.

12. recharging the TWIN-BOX

simply connect the TWIN-BOX (socket 10) to the mains (110/220V) and leave the TWIN-BOX switched off. The power indicator light (3) is on, the ON/OFF indicator light (2) is not. After approximately 10 hours the battery will be fully recharged. The power indicator light will remain on! The TWIN-BOX can remain plugged in without causing any damage.

maintenance of the battery

the integrated lead battery is rechargeable and maintenance free; however, a few basic rules ought to be heeded:

do not store below a temperature of 5°C

recharge after use

not having used the TWIN-BOX for months we recommend you switch it on for several hours and then recharge it.

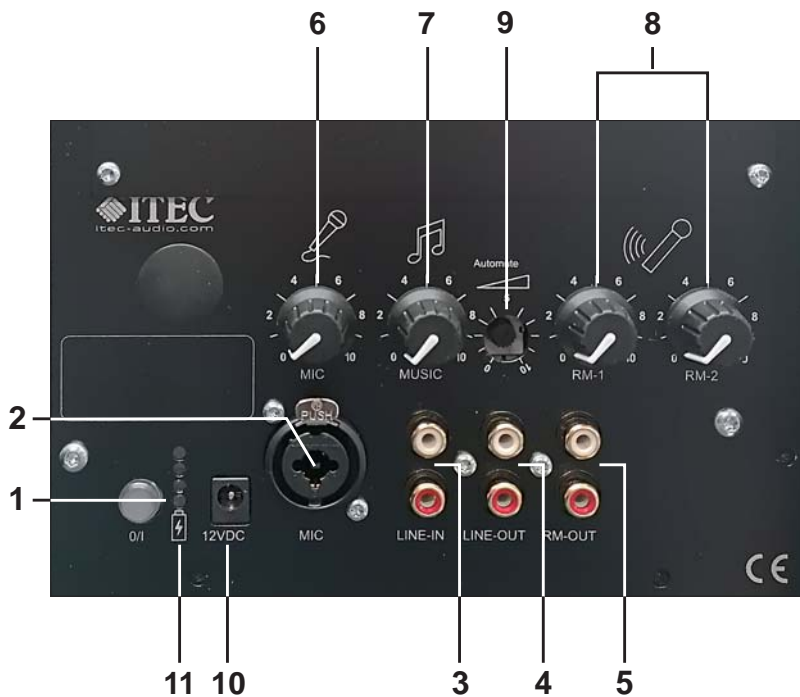
13. general advice

- do not place microphones and speakers close to each other in order to avoid acoustic feedback; too great a distance, on the other hand, between microphone and speaker has an unnatural effect on the audience (the sound, bear in mind, does not come from the person speaking) and makes speaking more difficult (sonic speed, as we now know, is not all that fast). we recommend a distance between mike and speaker of between 5 and 15 metres.
- furthermore, make sure the speaker does not face the mike directly.
- perfect as the loudspeaker system may be, the person speaking ought to announce loudly and clearly. An audience of 10 should be able to understand him perfectly well without any technical support.
- the distance between the mouth and the microphone should be between 5 and 10 cms.
- it is advisable always to have an attendant near the loudspeaker controls, e.g. should the person speaking suddenly come too close to the speaker with his mike the resulting feedback could be remedied.

14. advice on radio microphones

- make sure the batteries of the radio microphones are in good condition
- high voltage cables, iron gates, metal roofs, etc. can cause interference
- do not place the receiver or the microphone/s anywhere near potential interference sources (Computers, mobile phone etc.)

15. Controls



- 1 ON/OFF switch
- 2 socket for microphone (1/4 " stereo jack, XLR)
- 3 LINE IN cinch sockets (for external audio supply)
- 4 PRE OUT cinch sockets (for external recording device)
- 5 HF LINE OUT cinch sockets (Radio reception, not controlled)
- 6 Volume control for cable microphone
- 7 Volume control for external player or built-in player (both optional)
- 8 Volume control for radio microphones
- 9 AUTO MUTE for music attenuation (optional)
- 10 Charging/power connection
- 11 Operating and battery status display

16. Changing batteries of radio microphones

Attention: old batteries are hazardous waste; dispose of properly!



ITEC WM-716-A - hand held microphone

Unscrew cap on lower end of microphone and insert two new batteries. Note the poles (- pole at spring contact, both at bottom)!

Battery type: 2 „AA“ 1.5V Mignon

Batteries are okay: LED is green

Batteries are low: LED is red



ITEC WT-716-A - button microphone

Open pocket transmitter cover by pressing left and right snapper simultaneously. Insert two new batteries.

Note the poles (- pole at spring contact)!

Batteries are okay: LED is green

Batteries are low: LED is red



ITEC WM-5300 Handheld Microphone

Unscrew cap on lower end of microphone and insert two new batteries.

Note the poles (- pole at spring contact, once at top, once at bottom)!

Battery type: 2 „AA“ 1.5V Mignon

When you switch on, red LED briefly illuminates.

Battery status on display.



ITEC WT-5300 Pocket Transmitter

Open pocket transmitter cover by pressing left and right snapper simultaneously. Insert two new batteries.

Note the poles (- pole at spring contact, left)!

Battery type: 2 „AA“ 1.5V Mignon

Battery status on display.



ITEC WM-6000 Handheld Microphone

Take down the rotating end of the case and you will have access to the battery compartment. Insert two AA size alkaline batteries according to the correct polarity markings.

Battery type: 2 „AA“ 1.5V Mignon

When you switch on the display lights up, briefly shows “ON” and then the battery capacity



ITEC WT-6000 Pocket Transmitter

Open pocket transmitter cover by pressing left and right snapper simultaneously. Insert two new batteries. Note the poles!

Battery type: 2 „AA“ 1.5V Mignon

Battery status on display.

Hereby ITEC Tontechnik und Industrieelektronik GmbH declares that these radio systems comply with the directive 2014/53/EU. The EU Declaration of Conformity for each product is available at <https://www.itec-audio.com/products/itec-microphones-and-conference-technology/>.

Full test reports are available on request.

17. The integrated USB-Player (optional)

You can connect USB storage media to the USB port (4).

For playback only files in .mp3 format can be used!

Important: Please only use high-quality USB sticks of reputable manufacturers. Low-quality storage media may cause malfunctions.

Playback: Use the Start key to start (2) playback.

To pause, press the Start key again (2).

Use the Stop key (7) to end playback.

Previous title: Press the (1) key.

Next title: Press the (3) key.

Playback mode: Press the Mode key (6) to select the repeat mode.

Single: track is played once.

Folder: all titles of the current folder are repeated.

All: all titles in all folders are played and repeated.

Record: Press the record key (5) to start recording.

Use the Stop key (7) to finish recording.

During recording, the device creates a folder named „RECORD“, and inside this folder it creates files named „FILE_001“ with rising numbers. The files are written in MP3 format and can be read, edited and deleted by any common PC. The recording can be deleted or renamed directly on the device.

Attention:

The amount of free memory is checked before recording starts. This can take up to 30 seconds depending on the size of the memory (the red LED lights up - Wait mode) - afterwards recording starts automatically (red LED flashes). We recommend **USB-Sticks with a storage capacity of max. 2 GB**, then the recording starts immediately. They can be used for recordings up to 20 hours in duration - sufficient for most events.

Funktionen nur auf der Fernbedienung

Direct song selection (8): By entering a number, a song can be directly selected on a USB stick or SD card and playback can be started.

Mute (9): By clicking the Mute button the playback will be muted, it does continue playing though. Pressing the button again cancels the mute function – playback will resume at the previous volume.

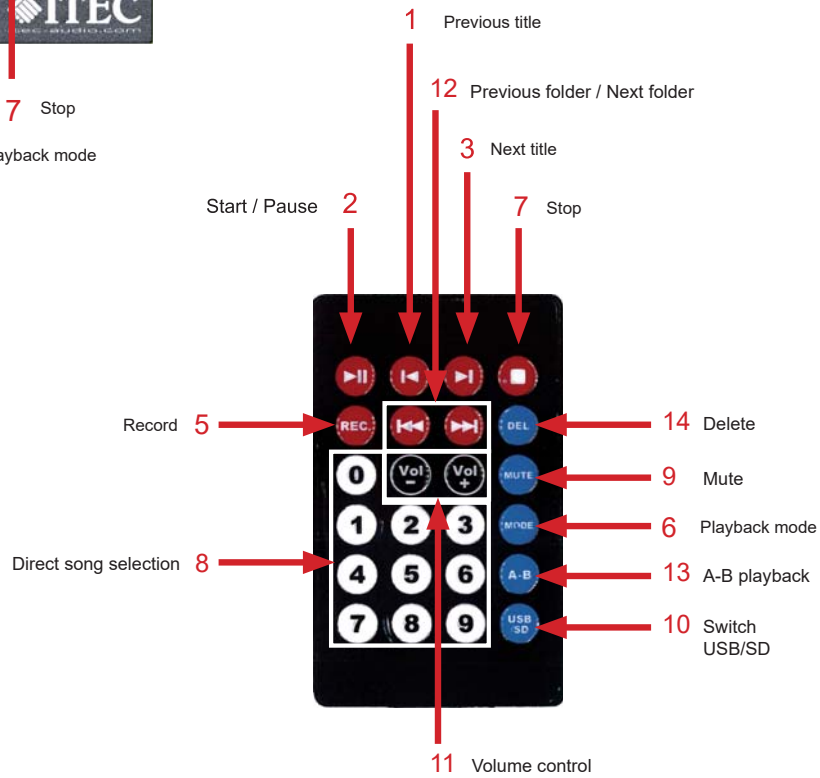
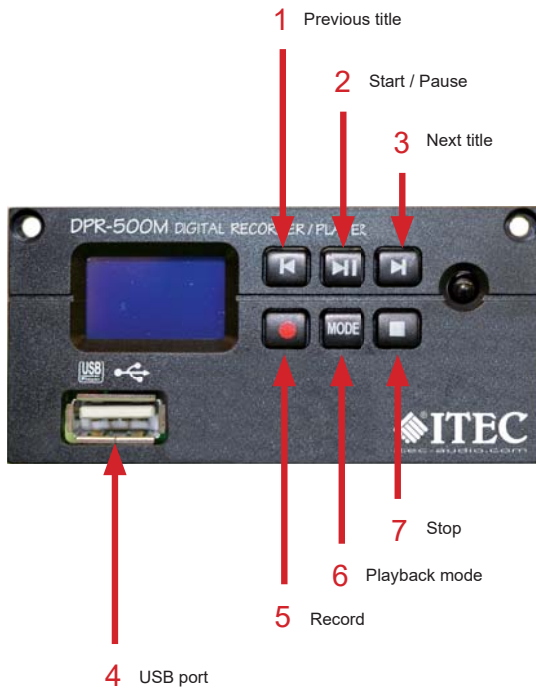
Switch USB / SD (10): No function

Volume (11): The volume can be changed using the Vol- (quieter) and Vol+ (louder) buttons.

Previous / Next folder (12): These two buttons allow you to switch to the previous (<<) or to the next (>>) folder (if several folders are stored on the storage medium).

A-B playback (13): This function allows you to play a segment between two arbitrarily selected markers in an endless loop. To use this function press the AB button at the beginning of the desired segment and then again at the end. The device will immediately begin playback, starting from the first marker (A) until the second marker (B) and will repeat until the AB button is pressed again.

Delete (14): You can delete the current song using the DEL button. The delete action cannot be undone. To delete a file, play it and then press the DEL button. The question “DEL FILE?” will appear on the screen. Confirm by pressing the DEL button again, thus permanently deleting the file. If you don't want to delete the file, press the Stop button to cancel the operation.



18. BLUETOOTH (optional)

- Switch on the Bluetooth receiver on the box (14).
- Activate Bluetooth on the playback device (smartphone, tablet, ...).
- Connect the playback device to „BTR100X“
- Volume on the box on the controller (7) and directly on the player to adjust.



14 On / off switch for Bluetooth (option)

TWIN-BOX - SPECIFICATIONS



GENERAL

Portable, active speaker system with built-in amplifier, rechargeable battery, battery level indicator, 3-channel mixer, power supply unit with automatic charging module and a high-performance speaker system.

Amplifier output power	75 W _{RMS}
	2 full-range cone speakers 6 ½ inch
	SPL max.: 113 dB (powerful enough for an audience of approx. 500 listeners)
3-channel pre-amplifier	Microphone/wireless/auxiliary
High-capacity lead-gel rechargeable battery	3.5 Ah / 12 V (equal 3 to 4 hours of operation)
Dimensions (W x H x D)	190 mm x 185 mm x 450 mm
Weight	5,6 kg

OPTIONS AND ACCESSORIES

	Up to 2 wireless microphone receiver modules (UHF or VHF) with separate volume adjustment may be built-in
	USB recorder installation module
	Bluetooth receiver built-in module
	Cable microphones
	Tripod, quiver, transport bag, shoulder strap

CONNECTIVITY

	Microphone connector, symmetrical, combinational XLR/jack plug, 12 V phantom power
Line input	Stereo-cinch socket
Line out	Stereo-cinch socket for recording devices

All information without guarantee. Subject to technical changes.



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