



ACTIVE-BOX MANUAL INSTRUCTION



designed and manufactured by
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Austria / Europe

 **ITEC**
itec-audio.com

Dear Customer!

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

Use the ACTIVE-BOX as an independent audio system with cable or radio microphones and playbacks from USB-Bluetooth-SD-Player. Use the ACTIVE-BOX as an additional and enriching sub-system together with the ITEC LECTERN interfaced either via cable or wireless radio-transmission.

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

sincerely,

Your ITEC acoustic team

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1. HOW TO PUT UP THE ITEC ACTIVE-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.

The height of the tripod can be changed by reducing the radial range; bear in mind, however, that what you gain in height you lose in stability!

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

2. HOW TO START

General:

The ACTIVE-BOX is put into operation by pressing the ON/OFF button. The power indicator lights up.

Battery operation:

In case the power supply is not plugged in, the ACTIVE-BOX will be supplied by an integrated rechargeable battery. The average operating time with a fully charged battery will be 6 to 10 hours. When operating on battery power, the operating/battery status indicator lights up green. The number of LEDs that light up varies depending on the current battery level. When the last LED starts to flash, the battery is almost empty. If the battery continues to be drained, the built-in deep discharge protection will ultimately switch off the device.

Mains operation:

If the mains/charger is connected to a 230-volt socket, the ACTIVE-BOX is not powered by the battery, but by the mains. The operating/battery level indicator lights up blue. If the ACTIVE-BOX is switched off, charging of the battery begins immediately. During the charging process, the operating/battery level indicator flashes red. If the battery is fully charged, it lights up red permanently.

3. USING A CABLE MICROPHONE

Plug in the cable microphone in the microphone socket and adjust its volume at the volume control for the cable microphone.

Technical information:

The multi-jack microphone socket 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 an XLR plug or a stereo 1/4" jack.

Connecting balanced microphones with phantom supply: by means of an XLR plug.

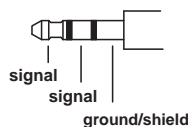
Connecting unbalanced microphones: by means of a mono 1/4" jack.

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

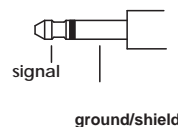
XLR plug, balanced
phantom voltage 12V



1/4" stereo jack, balanced
no phantom voltage



1/4" stereo jack, unbalanced
no phantom voltage



4. PLAYBACK

The cinch sockets will accept any player. The volume can be adjusted at the corresponding control. Should your ACTIVE-BOX have a built-in USB-Bluetooth-SD-player, please do not forget to consult the instructions enclosed.

5. MUSIC ATTENUATION (OPTIONAL)

Should your device have an automatic music attenuation, then 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.

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) and any built-in devices (tape recorder or CD player)

6. USING A RADIO MICROPHONE

Switch on the radio microphone and adjust the volume at the corresponding control.

When using a radio microphone make sure the batteries are alright.

7. CONNECTING THE ITEC LECTERN

Cable connection: the ACTIVE-BOX is connected to the LECTERN by means of the attached cable. At the ACTIVE-BOX plug the signal cable in one of the LINE IN cinch sockets, at the LECTERN plug it in one of the LINE OUT cinch sockets. The volume control lets you choose how loud the ACTIVE-BOX shall be in proportion to the LECTERN; the best way of doing this is to

- set up the LECTERN and the ACTIVE-BOX/ES, connect them with the devices left off;
- connect the microphone to the LECTERN;
- switch on the LECTERN and adjust the volume;
- switch on ACTIVE-BOX/ES and turn up the volume making sure that there is no feedback.

Radio transmission: requirements: the LECTERN needs to have a radio transmitter, and the ACTIVE-BOX needs to have a radio receiver. The volume control WIRELESS lets you choose how loud the ACTIVE-BOX shall be in proportion to the LECTERN; the best way of doing this is to

- set up the LECTERN and the ACTIVE-BOX/ES, connect them with the devices left off;
- connect the radio transmitter to the LECTERN: plug an MC 12 in one of the LINE OUT cinch sockets;
- connect the microphone to the LECTERN;
- switch on the LECTERN and adjust the volume;
- switch on the radio transmitter and ACTIVE-BOX/ES and turn up the volume making sure that there is no feedback.

8. RECORDING

Connect the recording device to the LINE OUT cinch socket. You can record cable microphone, radio microphone and music playback. The output level will depend on how you have adjusted the controls.

9. CONNECTING AN EXTERNAL AMPLIFIER

The adjusted signal of the 'LINE OUT' cinch socket may be connected to an external amplifier. However, in most cases, the integrated radio receiver will be needed. In this case, please plug in the 'RM OUT' socket. As for volume, be aware that now the signal of the radio receiver/s overrides your volume adjustments.

10. DC 12V SOCKET

For the use of additional ITEC equipment, e.g. the CONFERENCE SET, use socket for voltage supply. The maximum current is 0.5A, a built-in safety advice switching off the device in case of overcharge.

11. RECHARGING THE ACTIVE-BOX

To charge, connect the power supply/charger to a 230-volt socket. The ACTIVE-BOX must be SWITCHED OFF! The operating/battery level indicator lights up red. The charging process is complete after around 10 hours. The operating/battery level indicator lights up red permanently. The device can remain permanently connected to the mains without being damaged.

BATTERY MAINTENANCE:

The built-in lead-gel battery is maintenance-free, but a few rules should be observed:

- avoid storage at temperatures below +5°C.
- **CHARGE THE DEVICE AFTER EACH USE OR AFTER A LONG PERIOD OF NON-USE**
- if the ACTIVE-BOX is not used for months, it is recommended to switch the device on for several hours and then charge it again.

12. GENERAL ADVICE

- Do not place microphones and speakers close to each other in order to avoid acoustic feedback; On the other hand, a distance between the microphone and the loudspeaker that is too large appears unnatural to the listeners (because the sound does not come from the direction where they see the speaker) and also makes speaking more difficult (sound transit time). 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.
- As perfect as the loudspeaker system might be, the person speaking should express themselves 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 to always have an attendant near the loudspeaker controls, e.g. should the person speaking suddenly come too close to the speaker with their mike the resulting feedback could be remedied.

Advice on radio microphones

- Make sure the batteries of the radio microphone/s 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 phones etc.)

13. CHANGING BATTERIES OF RADIO MICROPHONES

Attention: Batteries are hazardous waste. Old batteries have to be disposed 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

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

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!

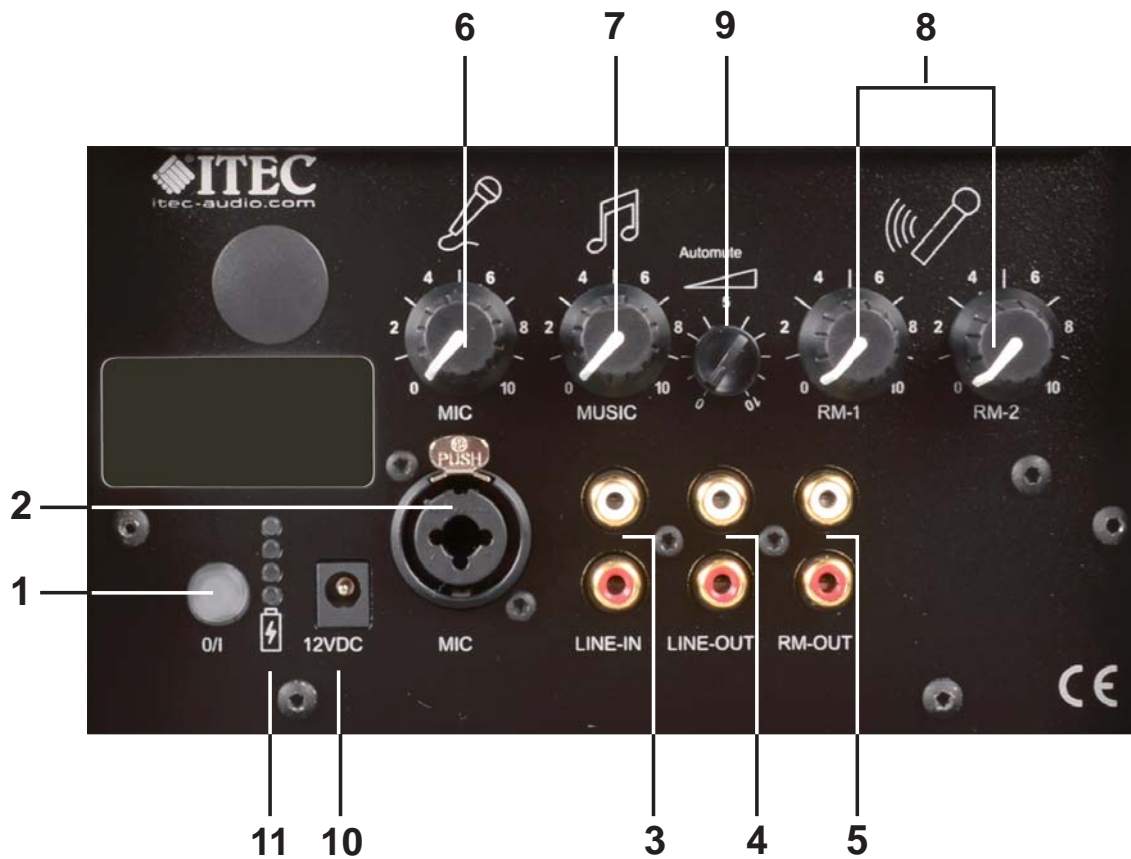
Battery type: 2 „AA“ 1.5V Mignon

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.

14. CONTROLS



- 1 ON/OFF switch
- 2 socket for microphone (1/4 " stereo jack, XLR)
- 3 LINE-IN cinch sockets (for external audio supply)
- 4 LINE-OUT cinch sockets (for external recording device)
- 5 RM-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 DC 12V socket (for additional ITEC equipment)
- 11 Operating and battery status display

15. USB/SD Card Player/Recorder (Optional)

You can connect USB storage media to the USB port (**4**) (e.g.: USB memory stick). Alternatively, you can also use an SD card. SD card slot (**6**).

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

If a USB stick and an SD card are inserted when the device is switched on, the device chooses the USB stick as the current storage, otherwise the medium last used.

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

Switching on the device: Turn power switch (**10**) clock-wise.

Playback: Use the Start key to start (**2**) playback. You can adjust the volume directly on the player using the rotary knob (**10**) and the virtual slider (Line, on the right side of the display). To pause, press the Start key again (**2**). Use the Stop key (**9**) to end playback.

Previous title: Press the (**1**) key.

Next title: Press the (**3**) key.

Playback mode: Press the Mode key (**8**) to select the repeat mode.

Single: the current title is repeated continuously.

Folder: all titles of the current folder are repeated.

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

Record: Press the record key (**7**) to start recording.

The LED (**5**) blinks red. Use the Stop key (**9**) 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.

LED display (**5**):

Green light: ready

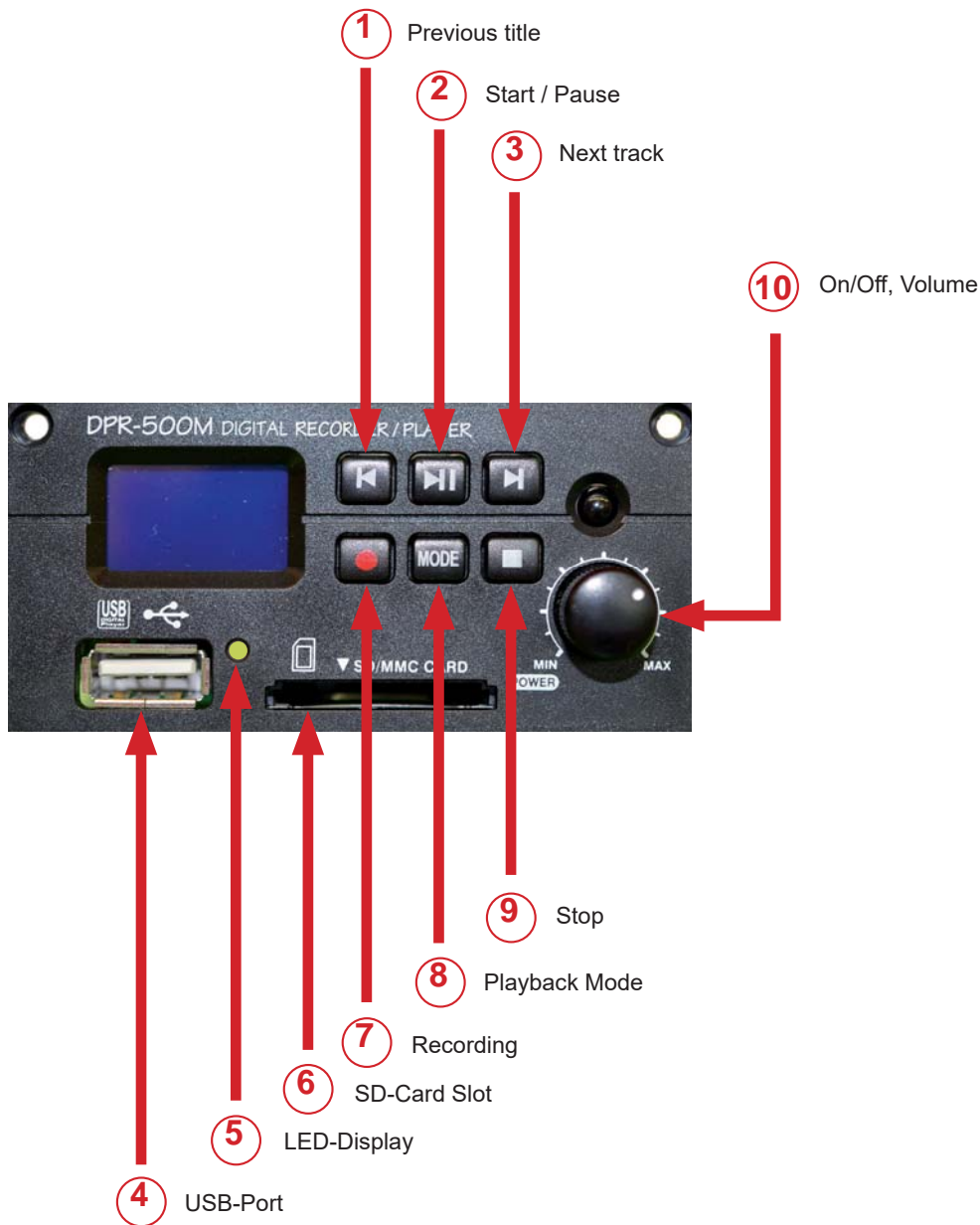
Green blink: playback

Red blink: recording

Red light: error (no playable files, etc.) respectively waiting state

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 **SD cards and 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.



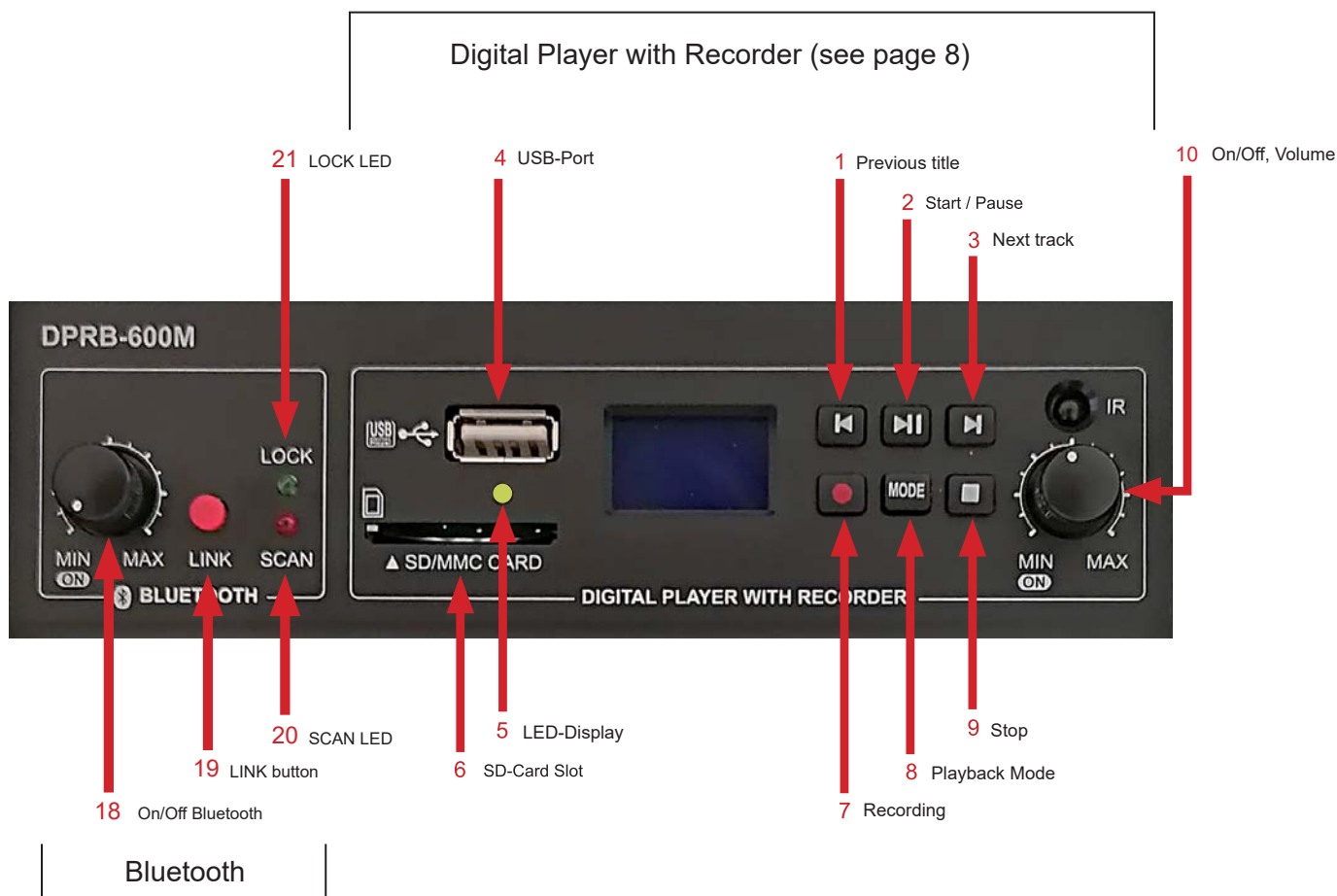
16. Bluetooth (Optional)



11 On/Off Bluetooth (option)

- Switch on the Bluetooth receiver on the box (11)
- Activate Bluetooth on the playback device (smartphone, tablet, ...).
- Connect with „BTR100X“
- Adjust the volume on the box on controller 7 and directly on the player.

17. USB/BLUETOOTH BUILT-IN MODULE (OPTION)



- Turn on the Bluetooth receiver and the LOCK LED will flash GREEN.
- Approximately 9 seconds later, the LOCK and SCAN LEDs will flash GREEN and RED, which means it is ready for pairing.
Activate BLUETOOTH on your device (phone, tablet, PC., etc) and pair with external BLUETOOTH device named "BT AUDIO". After successful linking, the LOCK LED will be solid GREEN and you can play your music.
- Adjust the volume on the box using the controller (7) and directly on the playback device (18).
- Pressing LINK button can cut the connection.

Important

- Press SWITCH button for disconnection and getting ready for new pairing.
- The BLUETOOTH can memorize and automatically connect to last-paired device

ACTIVE-BOX - SPECIFICATIONS



GENERAL

Specification	Portable, active loudspeaker box with built-in Class-H amplifier, battery, battery level indicator, 3-channel mixer, power supply with automatic charging and high-performance/2-way loudspeaker system.
Amplifier Output Power	100 W _{peak}
	SPL max: 115 dB (Sound reinforcement capacity for approx. 500 listeners)
Speaker	2x bass/midrange cone speakers 6.5", 1x piezo dual tweeter
Inputs	4-channel pre-amplifier: Microphone/Line-In1/wireless In2
High-capacity lead gel battery	9 Ah / 12 V (corresponds to max. 6-8 hours operation)
Power supply	Power supply unit with automatic charging module (built-in)
Placement	Tripod flange for use with speaker tripod
Dimensions	870 x 240 x 220 mm (H x W x D)
Weight	15 kg
Colour	Black, shock-resistant polyurethane coating

CONNECTIVITY

Microphone	Microphone connector, symmetrical, combined XLR/jack plug, 12V phantom power
Line-Input	Stereo-cinch for external media players
Line-Out	Stereo-cinch socket for recording devices

OPTIONS and ACCESSORIES

Wireless microphones	Maximum of 4 radio modules UHF or VHF (either receiver or transmitter)
Microphone	Cable microphone EM 300
Playback device	USB-Bluetooth-SD-player/recorder
High-capacity lead gel battery	20 Ah (more than twice the battery life of the standard battery)
Auto-Mute	Automatic music volume reduction when talking
Miscellaneous	Speaker stand, carrying bag, rain cover, flight case, various audio connection cables

All information without guarantee. Subject to technical changes.



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