





Thank you for your purchase

## USER MANUAL

### MANUAL ICONS

-  **Warning:** situations involving injury risk of the user or other persons.
-  **Attention:** situations, when damage of sound system or other equipment may be caused.
-  **Note:** notes, tips or additional information.

### GENERAL SAFETY RULES

- Carefully read this manual before use and store it in a safe place with the cash receipt, free service application form and, if possible, package.
  - Use the sound system for the intended purposes and in the manner specified in the manual only.
  - Do not use the sound system in moist places or in direct vicinity of water (the system may not be splashed or spilled with any liquids).
  - Protect the sound system from direct sunlight, open flame, heat or sharp impacts.
  - Inspect the device and charger on regular basis. In case of visible damages, turn to authorized service for the elimination thereof.
-  Due to safety reasons, do not allow children to play with a power cable and packing materials (plastic, foam plastic, cardboard etc.). Choking and suffocation risk!

### DESCRIPTION

Speaker to cover events up to 2500m<sup>2</sup> and 600 people. Bluetooth and NFC to connect with a smartphone. Powerful 15" (381mm) woofer and 1" (25mm) tweeter for high-resolution sound. Voice, FM and AUX-IN record function. Microphone and guitar inputs for karaoke and jamming. Optical rhythm lighting. Rechargeable battery up to 9h playtime. Telescopic handle and wheels for mobility.

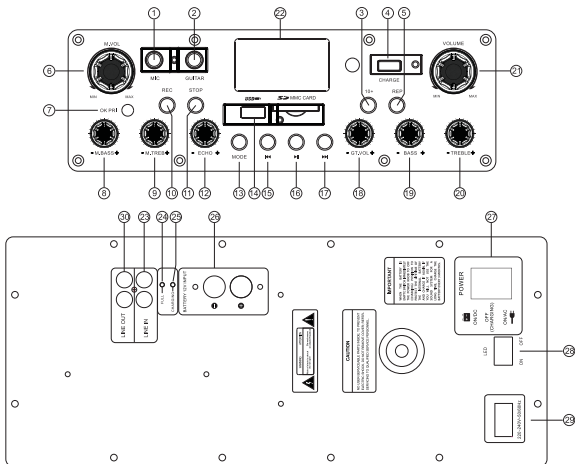
#### Content of the set:

- ZND\_LIBERATOR
- Dynamic wireless microphone
- Remote control
- Power cable
- Audio cable 2 RCA/3.5 mm
- User manual

### FUNCTIONS

- Playback of sound records from mobile devices via Bluetooth (wireless) connection.
- Sound system equipped with USB flash memory port, SD memory card port, RCA linear entry port, RCA linear exit port, 6,3mm microphone port and 6,3mm guitar port.
- Display shows the selected operation mode.
- Full FM range coverage (87.5 -108.0 MHz).
- Restarts FM frequency and track after restart.
- Remote control intended for more convenient device control with extended functions.
- Battery provides autonomous use of the device.
- Equalizer with 6 setting modes.

- Solid housing provides good quality sound.
- Multicoloured lights with rhythmic alteration.
- Option to power the device from the external 12V power source (for example, 12V car lighter socket or battery) - by connecting the cables to +/- terminal in the block BATTERY 12V INPUT (26).



### Control panels

### PREPARATION

#### Battery charging:

Connect the included power cable to the port of the sound system ~220-240V 50/60Hz (29), blue charging mode indicator **CHARGING** (25) will light up.

Battery should be charged for approximately 8 to 12 hours. When battery has fully charged, red indicator **FULL** (24) will light up.

- ⚠ If the battery has run out of charge, switch off the sound system immediately (set the **POWER** (27) switch to **OFF (CHARGING)**) and charge the battery of the sound system by connecting it to the mains supply.

Low battery manifests itself through sound distortions and reduction in volume.

- 🔌 If the sound system is switched on during the charging (the **POWER** (27) switch is set to **ON/AC**), the battery charge time will be longer.

- ⚠ To extend the service life of the battery, never leave it uncharged.

- ⚠ If you will not use the sound system for a long time, charge the battery every 3 months.

## CONNECTING AN EXTERNAL 12V DC POWER SUPPLY

The sound system can run from an external DC power supply unit with an output voltage of 12-15V, and a power of at least 80W.

Before feeding the sound system from an external power supply unit, disconnect the power cord from the socket **~220V-240V 50/60 Hz** (29).

⚠ Observing the polarity is important when connecting cables. Incorrect polarity can damage your sound system or other equipment!

Connect the "+" output lead of the external power supply unit to the **red** terminal of **BATTERY 12V INPUT** (26), and the "-" lead, to the **black** terminal.

Then, set the **POWER** (27) switch to **ON/DC**.

Do not connect other electric devices (e.g. a 12V lamp) to the **BATTERY 12V INPUT** (26) terminals of the sound system.

## USE

### Switching on:

The sound system can be powered in two ways:

- 1) from a 230V, ~50/60Hz mains supply (set the **POWER** (27) switch to **ON/AC**),
- 2) from a 12V battery (set the **POWER** (27) switch to **ON/DC**).

### Volume adjustment:

The sound system has two volume controllers:

- a) **VOLUME** (21), adjusts (limits) the maximum volume.
- b) digital volume controller with buttons [◀◀] (15), [▶▶] (17) and remote control buttons [VOL-], [VOL+].

You can turn the volume down or up by pressing and holding the button [◀◀] (15) or [▶▶] (17).

📝 It is recommended to set the digital volume controller at the level of increased or maximum volume and to change the required volume by using the controller **VOLUME** (21).

### Equalizer (in USB/SD/Bluetooth)

During playback of digital records (e. g. MP3), you can change equalizer modes by pressing the [EQ] button on the remote: **NOR > ROCK > POP > CLAS > JAZZ > COUN**.

📝 For the best possible sound, appropriate equalizer mode must be selected for the style of each track.

### Playback of digital records:

1. Place USB flash memory or SD memory card with MP3/FLAC/WMA/WAV records in the respective port.

⚠ If USB flash memory or SD memory card is placed or removed from sound system that is switched on, damage to information and/or device is possible!

2. Switch on the sound system by using the switch **POWER** (27). Playback of digital record will start.


- If another mode has been used previously ("Linein", "BlueTooth", FM), push the key [MODE] (13) or [MODE] on the remote, choose USB/SD mode ("↔" or "📁" on display).


- Switch on or cancel the playback pause mode with the key [▶||] (16).

- Selection of the next or previous track:

"Fast forward" by temporarily pressing the key [▶▶] (17).

"Rewind" by temporarily pressing the key [◀◀] (15).

-  Key [REP] (5) - selection of playback type (in MP3 mode):
  - "1" - repeated playback of one composition
  - "A" - playback of all compositions.

-  Key [10+] - selection of the digital records by step +10.

3. After listening to the records, press key [M] (16).

4. By switching **POWER** (27) to status **OFF**, turn off the sound system.


#### **Playback of analogous signal from external source:**

1. Insert pins of the included cable into the sockets **LINE IN** (23), insert the 3.5mm cable pin into the audio output of the audio signal source (for example, smartphone, tablet, MP3/MP4 player etc.) or headphone socket.



2. Switch on the sound system and by key [**MODE**] (13) (or remote key [**MODE**]) select mode "Linein".

3. Adjust the volume.


#### **Bluetooth wireless connection:**

-  • Bluetooth is a technology that use wireless radio-wave connection to connect devices. Effective wireless operational distance is approximately up to 10 meters.
  - Full functionality may not be guaranteed taking into account the variety of device manufacturers, models and software versions.

#### **1. Pairing of devices by using NFC function**

-  • Devices may be instantly paired by using NFC function.
  - Not all Bluetooth devices are equipped with NFC function.
  - a. Use the switch **POWER** (27) to turn on the sound system. By pressing key [**MODE**] or remote [**MODE**] choose mode "BlueTooth".
  - b. Make sure that Bluetooth and NFC functions have been activated in your Bluetooth device (for example, smartphone). In order to do this, read your Bluetooth device user's manual.
  - c. Move your Bluetooth device very slowly over the sound system NFC symbol () until you hear signal and the Bluetooth device receives confirming message.

#### **2. Manual pairing of devices**

- a. Use the switch **POWER** (27) to turn on the sound system. By pressing key [**MODE**] or remote [**MODE**] choose mode "BlueTooth".
  - b. Make sure that Bluetooth function has been activated in your Bluetooth device (for example, smartphone). In order to do this, read your Bluetooth device user's manual.
  - c. When Bluetooth ID with title "ZND\_LIBERATOR" is displayed in your Bluetooth device, select it to begin connection in pair and establish a connection. After successful connection in pair, the sound system confirms establishment of connection with sound signal.
  - e. If necessary, enter the default password "0000" (or other depending on the version of your mobile device or software version).
-  • Use control elements of the Bluetooth device to select the track, playback mode and set the initial volume (see the mobile device user's manual).
    - If the previous connection of Bluetooth device has been with "ZND\_LIBERATOR", next connection will be automatic.

- Compatibility may not be provided for the Bluetooth devices to be manufactured in the future.
- In order to provide optimum connection, make sure the battery of your Bluetooth device has been fully charged.
- Some Bluetooth devices have energy saving mode. Deactivate energy saving mode, since it may cause data transmission disturbances.
- In case of incoming call to the connected smartphone, music playback is paused.

### **Reception of FM radio stations:**

1. Use the switch **POWER** (27) to turn on the sound system. By pressing key **[MODE]** or remote **[MODE]** choose mode FM radio.
2. Shortly press the sound system key **[▶|]** (16) or remote key **[FM SCAN]**, and scanning for range and memorization of radio station frequencies will begin; frequency will change on display and shortly the memory cell number of the found transmitter will be shown (for example, "CH02"), and a short fragment of the transmission will be played.

For early stopping of scanning of FM radio stations, press the key **[▶|]** (16).

When scanning of radio stations is over, broadcast of the first found "CH01" radio station will be played.

3. Temporarily pressing the key **[◀◀]** (15) or **[▶▶]** (17), select any of the memorized radio stations.

### **Connection of microphones:**

Dynamic wireless microphone (included) and/or dynamic microphone with cable can be connected to the sound system.

1. Switch off the sound system by using the switch **POWER** (27).
2. Turn the echo controller **ECHO** (12), main volume controller **VOLUME** (21) and microphone volume controller **M.VOL** (6) to the minimum.
3. If you will use an additional microphone with a cable, connect the cable to the port **MIC** (1).



- Before the use of wireless microphone, two R6/AA 1.5V batteries must be inserted.
- Shift the microphone switch in position ON (switched on).

4. Switch on the sound system by using the switch **POWER** (27).
5. Speak into the microphone and set the required volume by using the main volume controller **VOLUME** (21) and the controller **M.VOL** (6). Set the required echo level with the echo controller **ECHO** (12).
6. If the microphone priority mode button **OK PRI** (7) will be locked in pressed position, then, upon speaking into the microphone, sound from other signal source (for example, USB flash memory) will be automatically toned down.



### **Connection of guitar:**

Guitar with sound pick-up can be connected to the sound system.

1. Switch off the sound system by using the switch **POWER** (27).
2. Turn the echo controller **ECHO** (12), main volume controller **VOLUME** (21) and guitar volume controller **GT.VOL** (18) to the minimum.
3. Insert the guitar pick-up cable pin into the socket **GUITAR** (2).
4. Switch on the sound system by using the switch **POWER** (27).
5. Play guitar and set the required volume by using the main volume controller **VOLUME** (21) and the controller **GT.VOL** (18).

### **Karaoke function:**

In order to use karaoke function, first connect microphones according to the description given in the section "Connection of microphones".

1. Switch on the sound system by using the switch **POWER** (27).
2. Select the music source (BlueTooth/  /  /FM/Linein) by pressing the key **[MODE]**.
3. Adjust volume of music and microphone by using the controllers **VOLUME** (21) and **M.VOL** (6). When using "BlueTooth" or "Linein" mode, adjust volume also in the Bluetooth device or external player.

### **Recording on a USB flash drive (or SD memory card)**

You can record using a microphone MIC, FM radio, or linear input LINE IN.

Records are stored in the **JL\_REC** folder.

#### **MIC:**




Insert a flash drive into a USB port (14) - the sound system will start the playback of records from the USB automatically. Press and hold the [REC] button (10) - this will start the recording process from a microphone. To end a recording session, press and release the [REC] button. The recorded material is stored in the flash drive.

#### **FM:**


Insert a flash drive into a USB port (14). Enable the "FM" mode by pressing the [MODE] button. Press and hold the [REC] button (10) - this will start the recording process from an FM radio. To end a recording session, press and release the [REC] button. The recorded material is stored in the flash drive.

#### **LINE IN:**

Insert a flash drive into a USB port (14). Insert the included RCA jacks into LINE IN ports of the sound system. Insert a 3.5 mm cable jack into a port for headphones or linear input port on a smartphone (or another device). Enable the "Linein" mode by pressing the [MODE] button. Press and hold the [REC] button (10) - this will start the recording process from a smartphone. Enable the recording mode on the smartphone. To end a recording session, press and release the [REC] button. The recorded material is stored in the flash drive.

-  • If you have finished recording from a linear input and want to start recording from FM, leave the USB in the port and press the [MODE] button to switch to "FM" mode.
-  • If you have finished recording from FM and want to start recording from FM, leave the USB in the port and press the [MODE] button to switch to "Linein" mode.
-  • If you can't record anything, check whether there is any free space on the flash drive (memory card).


### **Playback of records**

After you have finished recording, the last record will be played automatically. If you wish to play other records, press the [] button (15).

### **Remote control [REC] button recording playback functions**

If the USB flash drive (or SD memory card) has recording made with the LIBERATOR as well as other recordings:

press and release the [REC] button, and the sound system will play the last recording made with the LIBERATOR, and then repeat it.

-  To play other recordings made with the LIBERATOR sound system, press the [⏮] (15) or [⏭] (17) button.

[REC]

- a) press and hold for 2 seconds - recording on the USB or SD drive will start from MIC, FM or LINE IN.  
b) pressing and releasing will play the recording made with the LIBERATOR back.

### Power Bank function

If you need to charge the battery of a mobile device, connect the mobile device to the USB port **CHARGE** (4).

-  It is not recommended to connect devices with a greater battery capacity (tablets or powerfull smartphones) using the specific USB port.



### Light effects:

If the **LED** switch (28) is **ON**, the sound system is lit up with rhythmic multicoloured light effects (depending on the volume and rhythm of the track).

## REMOTE CONTROL

Before the use of remote control, two R03/AAA 1.5V batteries must be inserted.

### Key functions:

- [⏻] - switching on of the sound system/ shifting into standby mode.  
[⏹] - switching off of sound.  
[FL-] - previous folder.  
[FL.REP] - selection of folder repeating/ playing type (in USB/SD mode).  
"A" - cyclic playback of all tracks;  
"F" - cyclic arrangement of the current folder.  
[FL+] - next folder.  
[EQ] - shifting of equalized modes (in USB/SD/Bluetooth).  
[VOL+ ] - turning the volume up.  
[⏮/CH-] - previous track/ previous FM radio station.  
[⏭/ FM SCAN] - pause mode/ scanning of FM range.  
[⏭/CH+] - next track/ next FM radio station.  
[VOL- ] - turning the volume down.  
[0] - [9] - digital keys for the entry of digital (MP3) track number / selection of the stations fixed in FM radio memory.  
[REC] - recording from MIC/FM/LINE IN.  
[MODE] - mode shift (Bluetooth/  /  /FM/Linein).  
⏮ - "1" – repeated playback of one composition;  
"A" - playback of all compositions.



## INSTRUCTIONS FOR CORRECT USE

This is a complicated device and must be handled with care. In order to provide long and reliable operation of the sound system, please, comply with the instructions described below.

1. Do not put the sound system in a place with very high temperature (over 40°C).
2. Prevent contact of the system with water or any other liquids.
3. Do not approximate the system with powerful sources of electric field and static electricity.

4. Do not open the housing arbitrarily, do not repair and re-build the sound system.
5. Do not insert non-standard, poor quality or damaged parts, accessories and batteries.
6. When bringing the sound system from cold into a warm room, do not switch it on, but let the dewy parts dry for approximately two hours.
7. Protect from impacts, falls and powerful vibrations.
8. If the sound system is soaked, switch it off, wipe it down and let it dry for at least 24 hours.

### CLEANING

Clean with soft, dry or lightly dampened cloth. Do not use solutions (gasoline, acetone, spirit etc.) for cleaning. Do not abrasive or corroding cleaning agents.

### Technical data

Functions:	USB flash memory slot, SD/SDHC memory card port, dynamic microphone 6,3 mm entry port, 6,3 mm entry port for guitar (all protected with rubber caps), linear input (2 RCA), linear output (2 RCA), FM radio 87.5 - 108 MHz Bluetooth V4.2, A2DP, AVRCP NFC
Wireless compatibility:	1" + 15"
Loudspeakers:	140W
Output power:	40Hz - 20kHz
Frequency band:	> 90dB
Signal to noise ratio:	220-240V~50/60Hz or 12-15V, direct current
Power supply:	12V/9000mAh
Accumulator battery:	Charging time: 8-12 hours
Operating time with a fully charged battery*:	≥ 9 hours
Supported file format:	MP3/FLAC/WMA/WAV
Remote control operational distance:	10 meters (in view line to IR transmitter)
Ambient temperature:	0°C to 40°C
Ambient relative air humidity:	20% - 90%
Dimensions:	W455 x D380 x H700 mm
Weight:	~ 18,8 kg

\*measurement has been performed at 33% of volume, with the **LED** switch (29) in position **OFF**, and the outcome is approximate (dependant from construction of flash memory and content of record).

Subject to technical changes without warning.

Let us take care of the environment! Do not dispose of this device together with other waste, but deliver to the collection point of recyclable items.



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