



**DEGEN**

# 用户手册

OPERATION MANUAL

蓝牙电话音响  
插卡音乐播放器  
FM收音机

**BLUETOOTH HANDSFREE SPEAKER  
MP3 PLAYER  
FM STEREO**

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**DEGEN  
DE660**



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<http://www.degen.com.cn>的软件更新。

# Foreword

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## OUR THANKS

Thank you for choosing this product from the DEGEN series; we are very happy that you are using our product. Please keep this manual in case you need to review it in the future.

This package includes:

- ✓ DE660
- ✓ User's manual
- ✓ USB connection cable
- ✓ Carrying strap
- ✓ Lithium battery (BL-5C)
- ✓ Anti-slip mats

## STATEMENT

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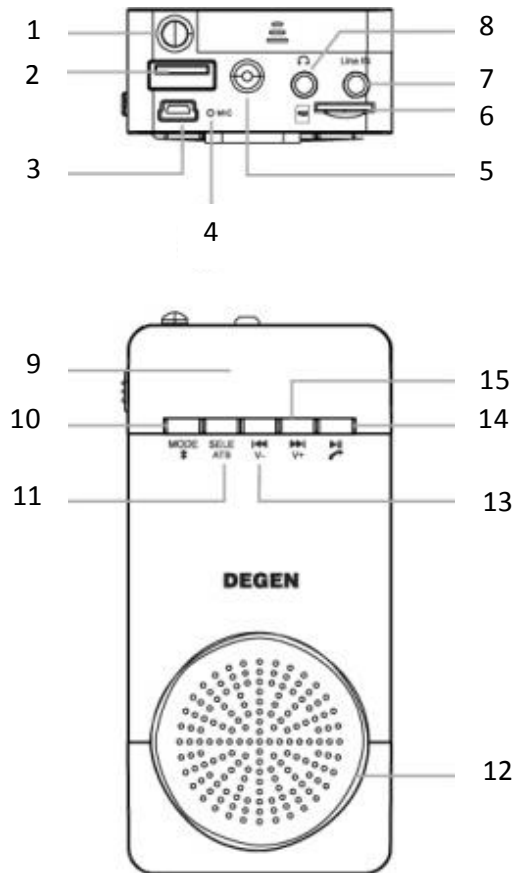
# Contents

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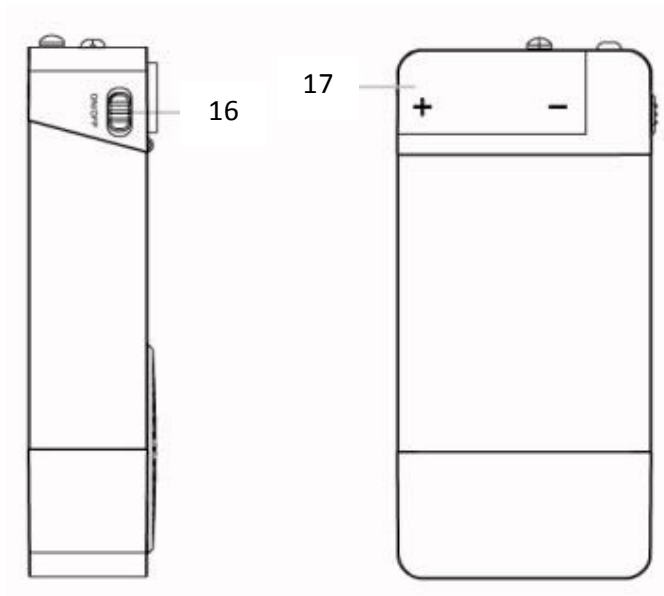
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# Location of Controls

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1. Telescopic antenna
2. USB (flash disk) jack
3. Mini-USB jack
4. Built-in microphone
5. Strap hole
6. Micro-SD card slot
7. Line-in jack
8. Earphone jack
9. Display
10. Mode switching  
Reject a call



11. Auto Tuning Storage (ATS)

Select songs

Phone call recording

Clock adjustment

12. Speaker

13. Music mode: rewind (short press); reduce volume (long press)

Radio mode: auto-scan high-to-low frequency (short press);  
reduce volume (long press)

14. Radio mode: switch stored radio stations (short press).

Music mode: play and pause.

Accept incoming phone calls (short press).

Long press: turn off the device.

15. Music mode: forward (short press); increase volume (long press)

Radio mode: auto-scan low-to-high frequency (short press);  
increase volume (long press)

16. Power switch

17. Battery compartment

# Battery Power Supply

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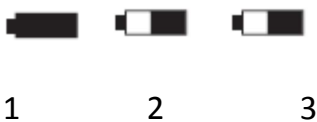
For the power supply, please use a lithium battery that is proven appropriate by DEGEN. If you are using other unqualified batteries, this may cause voltage instability. Although the radio works properly, it may increase the risk of fire or explosion. When the battery's operating time is shortened or the battery expands or is deformed, replace the battery with a new one immediately.

## (I) INSTALLING THE BATTERY

1. Turn off the device and open the battery cover.
2. Install the provided lithium battery according to the battery's polarity.
3. Close the battery cover.

## (II) BATTERY CONSUMPTION INDICATOR

1. Full
2. Reduced power (indicator does not flash)
3. Low power, please charge (indicator flashes)



### (III) CHARGING THE LITHIUM BATTERY

To charge the battery using an external adapter, connect the device through the mini-USB port to a power source (5V DC/ $\geq 500\text{mA}$ , not provided). While charging, the battery symbol shown on the display moves from right to left, and stops when the battery is fully charged.

A computer with a USB jack can also be used as a power source to charge the battery. After installing the lithium battery, connect the device to a computer with the provided USB cable.

#### NOTE:

- When using the battery for the first time, please charge it continuously for more than 6 hours, but not more than 12 hours. After charging the battery for the first time, you can fully charge it within 3-5 hours.
- When not using the device for a long time, please remove the battery.
- AC current can interfere with the reception of radio signals; do not charge the battery while listening to radio.
- The power adapter, as well as connecting with a computer, can only charge the lithium battery. It cannot replace the battery as a power source for playing audio or listening to radio; the battery needs to be inserted into the device.
- When charging the battery through a computer, we recommend using the provided USB cable; otherwise it may affect the charging time and performance of the battery.

## How to Operate the Buttons


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The device is operated by three operating keystrokes: short press, long press, and press & hold. Unless specified differently, all keystrokes mentioned in this manual are “short press”.

- Short press: press the button to take effect immediately.
- Long press: press & hold for 1-2 seconds.
- Press and hold: press & hold until action commences.

## Turn On/Off the Device

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(1) While the < ON/OFF > switch is in the "OFF" position, the device is turned off. To turn on the device, push the switch into the "ON" position. The Bluetooth mode is automatically turned on. The device can also be turned off by long pressing the <  > button.

(2) When the <ON/OFF> switch is in the "ON" position, but the device is turned off, long pressing the <  > button can turn on the device again. The display indicates "OPEN" and the voice prompt mentions "Bluetooth mode"; the Bluetooth mode is turned on automatically.




As shown on the picture, the four-line indicator flashes on the display to indicate that the device is available for pairing with another (compatible) device.

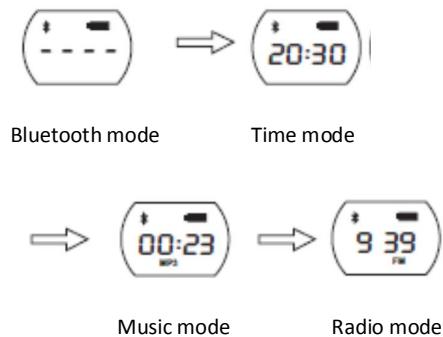
# Switching Modes / Bluetooth Mode

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## SWITCHING MODES

While the device is turned on, press <  > to switch to another mode.

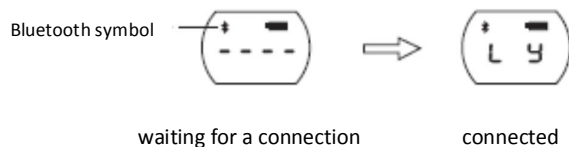
The voice prompts indicate the change of mode:



## BLUETOOTH MODE

(I) Pairing a mobile device through a Bluetooth connection.

1. Select the Bluetooth mode. The device is now ready to pair with another Bluetooth device.



When there is no Bluetooth connection, the four lines in the middle of the display are flashing. When a connection has been made, the lines disappear and “L Y” is shown on the display.




2. Turn on the Bluetooth of your (mobile) device.
3. Search for the Bluetooth device called DE660.
4. Select the DE660 device and pair with it. If prompted to fill in a password, please enter "0000".
5. When the pairing is complete, the display of DE660 will show "L Y". The device can now be used for incoming/outgoing phone calls or listening to audio files on your mobile device.

NOTE:

- DE660 can only connect to one other device at a time.
- The method of pairing and connecting by Bluetooth differs per mobile device. Most devices will connect automatically after pairing.
- If the connection is unsuccessful, there may be a glitch in the mobile application. Please restart your mobile device, and retry the pairing procedure.

## (II) Answering incoming calls via Bluetooth

After successfully pairing your mobile phone through Bluetooth, you can use DE660 to answer incoming calls.

1. To answer an incoming phone call, short press <  >. To refuse, long press <  >. After finishing a phone call, press <  > to hang up.
2. When an incoming call is received, "PH" is shown on the display. If "PH" is not shown, you cannot use the device, but have to answer the call with your phone. It may take some time before

“PH” is shown on the display, which varies according to phone and Bluetooth connection.



NOTE:

- While charging the battery, or when the battery power is low, the Bluetooth connection may not be stable. In this case, the Bluetooth Call function may not work properly.
- Incoming calls can also be answered in Time mode, Music mode, Radio mode, and while playing audio via a Bluetooth connection.

### (III) Call Recording

After answering an incoming call, press < SELE  
ATS > to start the recording. Press again to end the recording and save it to the USB flash disk or Micro-SD card.


NOTE:

To record an incoming call, you must first correctly insert a USB flash disk or Micro-SD card.

### (IV) Bluetooth audio playback


After successfully connecting to a mobile device, the audio files become available for listening through this device.

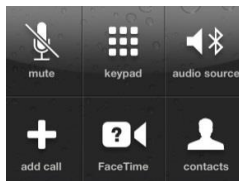
## NOTE:

- Make sure that the audio function of your mobile device is activated.
- This Bluetooth speaker has to be in Bluetooth mode in order to listen to audio files on your mobile device.
- In Radio mode, press <  > to switch to Bluetooth mode.
- If not using the Bluetooth function, it is recommended to disconnect the Bluetooth connection and turn off the mobile phone's Bluetooth function.

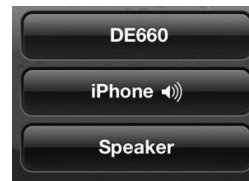
## Bluetooth Function: Reminder

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- Using this device as a handsfree speaker may work differently according to the phone type and brand used. When receiving a call on an iPhone, and when you answer the call by pressing the <  > button, the device will function as a handsfree speaker. However, when answering the call through the iPhone, the device may not immediately work as a handsfree speaker. In this case, after answering the call, you need to enter the “audio source” menu on your iPhone and select DE660.



Audio source selection



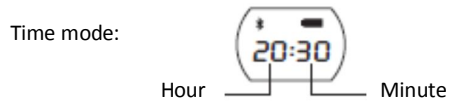
Audio source menu






- Although this device uses the best functioning original American CSR chip, this cannot guarantee that it is compatible with all mobile devices. In some cases this will be the result of incompatible Bluetooth communication protocols.

# Time Mode


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Press <  > to select the Time mode:



In Time mode, press <  > to enter the time setting. Move the cursor by pressing <  >. Press the <  > or <  > to set the number. After completing the time setting, short press <  > to save.


## NOTE:

- When the time is set, the cursor must be placed back to the minute's position again. Press <  > to return to the time display mode and effectively save the time setting.
- When the battery is exhausted, or when replacing the battery takes more than 15 seconds, the time setting is lost. You will need to re-set the time again.

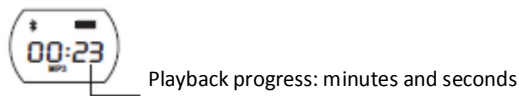
# Music Mode









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## I. Playing audio files

Turn on the device after correctly inserting the Micro-SD card or USB flash disk containing your MP3/WAV audio files. Press <  > to select Music mode; the device automatically plays the audio files and displays the playback progress.

Music mode:








1. Pause: while playing in Music mode, press <  > to pause. The display shows the current track number.
2. When paused, press <  > to play.
3. Press <  > to play previous file; press <  > to play next file.
4. While paused, short press <  > or <  > to go to the previous/next track. Long press to go to the previous/next folder.
5. Long Press <  > to increase the volume; Long press <  > to reduce the volume.

## NOTE:

If there is a Micro-SD card as well as an USB flash disk inserted: the device plays all the audio files on the Micro-SD card first, before playing the audio files on the USB flash disk.

## II. SONG SELECTION


In Music mode, while playing audio, press <  > to enter the song selection menu. Short press <  > or <  > to change track number. Press <  > to change digit location. Press <  > to confirm and play the selected song.

### NOTE:

- If the entry number exceeds the number of songs on your Micro-SD card or USB flash drive, song selection will not function.
- If you wish to select a song from a different folder, you first have to pause the music playing mode.

# Radio Mode

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When turned on, press <  > to select Radio mode. The "FM" indicator is shown on the lower right corner of the display.



Radio mode:



## (I) USING THE WHIP ANTENNA

While tuning into stations, extend the antenna according to signal reception. You can enhance radio reception by adjusting the length and direction of the antenna.

## (II) AUTO-SCAN STATIONS

Press the <  > or <  > to start the auto-scan function. Scanning for radio stations stops automatically when a station is found. Press again to search for the next available station.

### (III) AUTO TUNING STORAGE (ATS)

In Radio mode, long press < SELE  
ATS > to start the ATS function. All available stations will be stored. The device can save up to 40 radio stations. ATS will stop after searching all frequencies.

#### NOTE:

It is recommended not to listen to radio while connected to an external power supply or computer, because this may cause interference of the FM reception.

# **Active Speaker / Using the Anti-slip Mats**

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## **ACTIVE SPEAKER (LINE-IN)**

This device has a line-in jack, enabling it to function as a speaker for an external audio source (such as: laptop, recording pen, small audio players, etc.). Connect one end of the audio cable to the external audio source and another end to this device's <LINE IN> jack. Turn on the device. When properly connected, "LINE" shows on the display. You can now press the play button on the external audio source.

## **USING ANTI-SLIP MATS**

Accompanying this device are two non-slip mats, one large and one small. The large anti-slip mat is designed for use within a vehicle; the small mat for desktop use.

When using the large mat inside a vehicle, place the device onto the anti-slip mat horizontally. Make sure the microphone is directed towards you. This is better suited for the handsfree function.

When using the small mat on your desktop, the device can stand vertically. In case the mat becomes dusty, you may use warm water for cleaning. This will also improve the mat's viscosity.

# Firmware Upgrade

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1. Go to our website: <http://www.degen.com.cn>  
Download DE660 firmware upgrade tool installer and save to your computer.
2. Open the downloaded firmware upgrade utility, run setup.exe.  
The installer prompts to complete the installation.
3. Make sure the device is turned completely off (ON/OFF power switch must be in the OFF position) and connect it to a computer with the provided USB cable.
4. Start the DE660 firmware upgrade tool and follow the instructions.

## NOTE:

- The device must be turned off before starting the firmware upgrade.
- In some cases the upgrade may be unsuccessful due to computer compatibility issues, please re-try or use another computer to upgrade the firmware.

## Care and Maintenance

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1. Keep it dry. Rain, humidity and other types of liquids or moisture can contain minerals that may cause corrosion to components. If the device does accidentally get wet, remove the battery and wait for the radio to dry completely before placing it back.
2. Do not use or store in dusty or dirty areas. This may damage the moving parts and electronic components.
3. Do not store the device in hot areas. High temperatures can shorten the life span of certain components.
4. Do not place or store the device in cold environments. Otherwise, when the surrounding temperature rises to room temperature, internal moisture may develop and damage the circuit board.
5. Do not drop, hit, or smash the device.
6. Do not use harsh chemicals, cleaning solvents, or strong detergent to wash the device. Use a clean, soft, dry cloth to clean the screen.

## Battery Safety Information

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1. Use the battery under normal conditions; temperature:  $(20 \pm 5) ^\circ \text{C}$ , relative humidity:  $65 \pm 20\%$ . Under normal circumstances, the battery can be charged and discharged about 300 times.
2. Do not expose the battery to heat or high pressure, do not drop the battery, prevent children from playing with electric currents.
3. Do not short-circuit the battery, do not open or amend, do not expose to damp environments.
4. If not using for an extended period of time, remove the battery and store in a safe manner. Please use a non-conductive material to wrap the battery in order to avoid direct contact with metal. You can avoid damages by keeping the battery in a cool dry place.
5. Dispose of the battery properly; do not put into fire or water.
6. Do not expose to direct sun light for a prolonged period, to avoid heat, deformation or smoldering. This will reduce the performance and life span of the battery.
7. If the battery is not clean or smells strange when using it for the first time, stop using it and return to the vendor or dispose safely.
8. In case of battery leakage, avoid contact with skin or clothing. In case of contact, rinse with clean water to avoid skin irritation.

## Battery Hazard Warning

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1. Do not disassemble the battery or make amendments. This may lead the battery's internal protection circuit to malfunction and cause abnormal chemical reactions, electrical heat, smoldering, deformation, fire or explosion.
2. Avoid short-circuiting the battery. Avoid contact of the positive and negative terminals of the battery with metal connectors. Do not store the battery with metal sheets. If the battery short-circuits, there will be a large current flow, which will damage the battery, resulting in electrical heat, smoke, deformation, fire or explosion.
3. Do not heat or incineration the battery, which causes safety risks. It can lead to smoldering, deformation, fire or explosion.
4. Avoid exposure to a heat source. Do not place near fire, near the oven or any use of the battery in an environment of more than 80 °C. It can lead to smoldering, deformation, fire or explosion.
5. Avoid charging near fire or under direct sunlight. This may lead the battery's internal protection circuit to malfunction and cause abnormal chemical reactions, electrical heat, smoldering, deformation, fire or explosion.
6. Using a non-dedicated charger to charge the battery can be dangerous. This may lead the battery's internal protection circuit to malfunction and cause the occurrence of abnormal chemical reactions, electrical heat, smoldering, deformation, fire or explosion.
7. Do not weld directly on the cell body. Overheating may lead the battery's internal protection circuit to malfunction and cause the

occurrence of abnormal chemical reactions, electrical heat, smoldering, deformation, fire or explosion.

8. Avoid direct contact with a leaking battery. Electrolyte leakage causes skin irritation. If there is contact with the eyes, immediately wash with water, do not rub your eyes, and quickly go to the hospital for treatment.

# Troubleshooting

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(1) Cannot turn on the device:

The battery may be exhausted, charge it in time.

(2) Cannot connect to a computer:

The USB cable may be damaged. Please use a new cable and try again.

The USB port on the computer may be damaged. Please try another port.

(3) There is no sound:

Check if the volume level is too low, turn up the volume if necessary.

(4) Cannot play audio from the Micro-SD card or the USB flash disk:

The format of the audio file may be incorrect or the file is corrupted. Make sure the file is in MP3 or WAV format.

(5) Cannot charge the device:

Check that the USB cable is connected.

Check if the power adapter or USB cable is damaged.

(6) How to reset the device:

Misuse may lead to errors in the firmware. Remove the battery for a few minutes before turning on the device again.

# Specifications

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Memory support	Micro SD / USB flash disk 64M-8G
Audio supported formats	MP3 (16-320 Kbps), WMA (8-384 Kbps)
FM frequency range	87.0 - 108.0 MHz
FM Radio memories	40 stations
Recording format	WAV
Earphone output power	≤10mW*2
USB connection standards	USB 2.0 (high speed)
The speaker maximum output power	Approx. 150mW
Maximum current consumption	Approx. 180mA
<b>Power supply</b>	
Battery	Lithium (Li-ion) 3.7V BL-5C
External power supply (requirements)	5V 500mA
Lithium playback time (playing at volume level 22)	MP3: about 8 hours Radio: about 8 hours
Charging time	3-5 hours
Built-in speaker	D40mm
External headphone	D3.5mm
Dimensions	Approx. 110 x 53 x 26 mm
Weight	Approx. 151 grams (with battery)

# Contents: Toxic and Hazardous Substances

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In accordance with the requirements of the "Electronic Information Products Pollution Control and Management Measures", the following table lists the toxic or hazardous substances that this DEGEN product may contain.

Part Names	Toxic and hazardous substances or elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium [Cr (VI)]	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
The circuit board assembly (with wire)	X	O	O	O	O	O
Plastic housing assembly	X	O	O	O	O	O
Speaker	X	O	O	O	O	O
Telescopic antenna	X	O	O	O	O	O
Battery components	X	O	O	O	O	O
Signal line / USB cable	X	O	O	O	O	O
<p>O : Indicates that this toxic or hazardous substance in all the materials of the part is below the required limit of the SJ/T11363-2006 standard.</p> <p>X : Indicates that this toxic or hazardous substances is present in at least one of the materials for the part, because the industry is not yet able to provide alternative technologies, resulting in an amount exceeding the required limit in the SJ/T11363-2006 standard.</p> <p>Note: This product is marked environmentally friendly while in use, which refers to normal use conditions.</p>						