

DEGEN

OPERATION MANUAL

FM STEREO AM SW DSP RECEIVER
MP3 PLAYER
DIGITAL RECORDER
REPEAT
LOUDSPEAKER

DEGEN DE1128



support firmware upgrade, please visit
<http://www.degen.com.cn>

This unit is limited to Asia and Russian region

Accessories

- ✓ DE1128 unit
- ✓ Operation Manual
- ✓ Line-in Cable
- ✓ USB Cable
- ✓ Lithium Battery

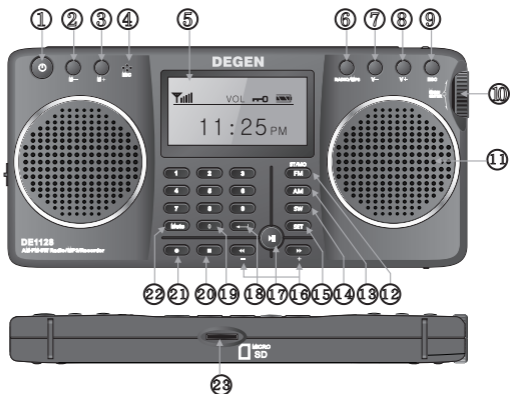
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LOCATION OF CONTROLS

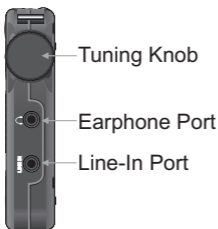
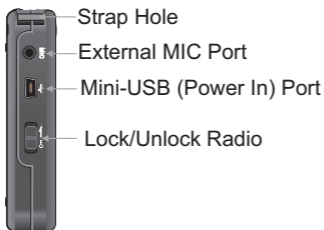
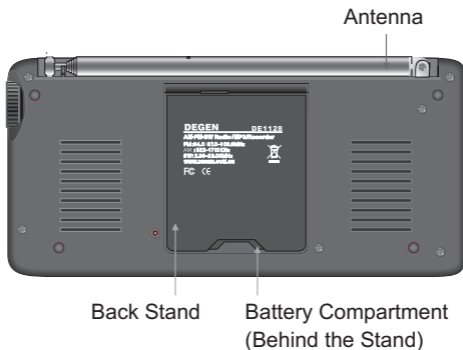


- ① Power On/Off
- ② In Radio Mode: **M-**
- ③ In Radio Mode: **M+**
- ④ Built-in MIC
- ⑤ Display
- ⑥ Radio/Music Mode Selection
- ⑦ Volume -
- ⑧ Volume +
- ⑨ Escape/Main Menu
- ⑩ Tuning Knob: Rotate to Tune,
Press to Confirm/Enter

LOCATION OF CONTROLS

- ① Speaker: Dual Stereo Speaker
- ② FM Stereo/Mono Selection
In A-B Repeat Mode: Repeat
- ③ AM Button
In Music Mode: Enter Sound Quality Mode Selection
In A-B Repeat Mode: Read
- ④ SW Button (press in SW mode to change M Bands)
In Music Mode: Enter Repeat Mode Selection
In A-B Repeat Mode: Contrast
- ⑤ Set Button: Enter Submenu
In Radio Mode: Confirm Memory Location Input
In Loudspeaker Mode: Line-in/Mic Signal Selection
- ⑥ Next Song/FF/Frequency +
Preview Song/REW/Frequency -
- ⑦ Play/Pause
- ⑧ Confirm/Enter Input
- ⑨ No. Buttons 0~9
- ⑩ Stop Button
- ⑪ Record Button
Hold: Directly Start Recording
- ⑫ Mute Button: Turn off speakers
- ⑬ MICRO SD Card Slot

LOCATION OF CONTROLS



BATTERY POWER SUPPLY

Before initial use, open the battery compartment (behind the back stand), make sure the lithium battery is installed.

INSTALLING THE BATTERY

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

BATTERY CONSUMPTION INDICATION

1. Full



2. Medium




3. Low



4. Exhausted



CHARGING THE LITHIUM BATTERY

To charge the battery, connect the unit to the mini-USB port and opposite end to a power source(5V DC/ \geq 500mA, not provided). While charging, the battery symbol shown on the display “” moves from right to left, and stops when the battery is full 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 unit and the computer with the provided USB cable to charge the battery.

- Note:**
1. Please turn off the radio while charging the battery to avoid interference. Do not turn on the unit when the adaptor output current is less than 500mA.
 2. After fully charging the battery, please first disconnect the USB cable before turn on the radio.
 3. Prior to first use, fully charge and drain the battery three times to extend the battery's life.

Caution: Do not use the unit when charged by PC, to avoid damage to PC power.

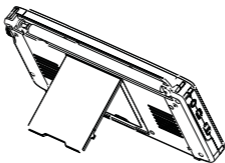
USING STRAPS

USING STRAPS




USING BACK STAND

Open the stand on the rear of the unit to allow for an upright position.



TURN ON/OFF THE UNIT

1. Turn ON/OFF manually: Press the <  > button.
2. Turn off using automatic Sleep Timer: Select "Sleep Timer" in Sys set mode, press the Tuning Knob to enter and then rotate the Tuning Knob to adjust to auto turn off timer from 0~90 minutes.
3. Auto Turn Off: The unit will turn off automatically in 3 minutes if not in either Recording, Music or Radio playing mode.



Note: If the unit can not be turned on, please check the battery or the key lock button.

MAIN MENU

In any Mode, press the <  > button can go back to Main Menu.



Main Menu

In Main Menu mode, rotate the Tuning Knob or press the <  > or <  > button to select either of below function and press the Tuning Knob to enter.

FM Radio: FM/AM/SW Radio

Music: MP3 music play mode

MIC Record: MIC Recording mode

Voice Play: Recording file play mode

Ebook: Text reading mode (Support TXT)

Loudspeaker: Expand the sound

A-B Repeat: Repeat, Read and Contrast


Sys Set (system setting): Time set, date set, calendar info, alarm set, backlight, language, sleep timer, power off mode, contrast, memory info, firmware version, firmware upgrade, date format, time format, exit.

CHOOSE BANDS





FM RADIO




In Main Menu, select FM Radio by press the Tuning Knob to listen to FM.



Press the  button to enter either Radio or Music Mode.

CHOOSE BANDS

In Radio Mode, press the ,  or  button to select your desired band. The top left corner of the display will show the band you are listening to. When listening to SW, press the  button can change **<m>** bands.

In Radio Mode, press the Tuning Knob or  button to enter radio menu. Rotate the Tuning Knob or press the ,  button to select either of the below functions:




- **Save:** Manual store the station into memory from 1~50
- **Record:** Select 129k/40k BPS direct radio recording
- **Delete:** Delete single memory
- **Delete all:** Delete all stored memory
- **ATS:** Auto tunes and store all stations into memory
- **Normal Band:** 87~108MHz
- **Japan Band:** 76~90MHz

TUNE IN STATIONS




- **School Band: 64~108MHz**
- **Open RDS:** Press to Open/Close RDS
- **Update RDS time:** Syn the RDS time to the unit
- **AM Spacing Switch:** Repeatedly press to select 9K/10K tuning step and direct enter AM listening
 - 9K Frequency range: 522~1710KHz
 - 10K Frequency range: 520~1710KHz
- **Exit**

Note: <Open RDS> and <Update RDS time> only appears when using FM Radio
<AM Spacing Switch> only appears when using AM Radio.

FM STEREO/MONO SELECTION

To activate stereo listening, press the  button and the display will show  symbol; press again to deactivate, and the mono symbol  will show.

VOLUME ADJUSTMENT

Press the  or  button to adjust your desired volume level, the display will show the volume level. Repeatedly press the  button to turn on/off the speakers.

ANTENNA RECEPTION

1. It only works when listen to FM and SW.
2. When listen to FM or SW, you can change the length of the antenna according to the signal intensity to get better reception.

TUNE IN STATIONS

USING BUILT-IN ANTENNA

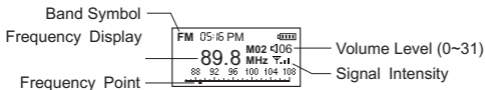
1. It only works when listen to AM Broadcast..
2. While listening to AM station, rotate the radio to find the position which gives the best reception, as the built-in ferrite bar is located inside the unit and it is strongly affected by the direction of placing of the unit.

MANUAL TUNING

Turn on the radio and select FM Radio from <Main Menu> by rotating the Tuning Knob. Press the Tuning Knob to enter, then choose your desired band by pressing on either the FM, AM or SW button.

Using either of the methods below to tune into your desired station:

1. Rotate the Tuning Knob or press the <◀▶> , <▶▶> button.

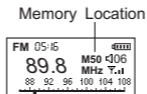


2. Press and hold the <◀▶> or <▶▶> button for about two seconds, then release to auto tune into the next available station.

TUNE IN STATIONS

AUTO TUNING STORAGE(ATS)

In radio mode, press the Tuning Knob and rotate it to select <ATS>. Press the Tuning Knob again to start auto scan and store the available stations within the memories.



Memory Locations:


FM/SW(ATS): M51 ~ M99

AM(ATS): M26 ~ M50

- Note:**
1. To have better reception, go near a window or outdoor when using ATS function.
 2. Do not use ATS while charging the unit to avoid interference.




TUNE IN STATIONS

DIRECTLY INPUT FREQUENCY

In Radio Mode, press the number on the keypad that corresponds to a station's frequency, and then press <  > button to directly enter.

Note: When listening to <m> bands, it is invalid if your input is out of the frequency range.

STORING STATIONS MANUALLY




Select your desired station, press the tuning knob or the <  > button and rotate the Tuning Knob to select <Save>, then rotate the Tuning Knob or the <  >, <  > button to select memory location from 1~50 in FM/SW mode or 1~25 in AM mode. Press the Tuning Knob again to confirm.

Memory Locations:

FM/SW(manual storage): M1 ~ M50

AM(manual storage): M1 ~ M25

LISTENING TO STORED MEMORIES



1. After storing stations into memory, press the <  > or <  > button with the memory address M01~M99 shown on the display(next to the frequency) to select your desired station memory.
2. In radio mode, press the number on the keypad that corresponds to a station's memory number, then press the <  > button to enter the stored station.

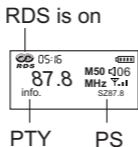
DELETE SINGLE/ALL MEMORIES

Press the Tuning Knob in radio mode, and rotate the Tuning Knob to select either <Delete> or <Delete All> and press the Tuning Knob again to delete single memory or all memories.

FM RDS

FM RDS

1. Select an FM station, press the Tuning Knob and rotate to select <Open RDS>, the symbol <  > will show on the display.
2. Press the <  > button to shift the transmitted details (display on the bottom of the screen).



PTY: Program Type

PS: Station Name

RT: Station Text Message (Only display if the station has transmitted)



CT: Update RDS time (wait about 2-3 minutes to get the RDS time)

3. Update RDS time: If the RDS time is correct, you can update the RDS time to your radio by press the Tuning Knob and rotate to select <Update RDS Time>.
4. Press the Tuning Knob and rotate to select <Close RDS> to turn RDS off.


- Note:**
1. You can receive the RDS information only if the station has this function.
 2. You can get the complete RDS information when the signal is full. If the RDS signal is weak, please find another location to receive clear reception.

RECORD RADIO

While listen to the FM/AM/SW stations, you can directly record the programs by following the steps below:

1. Adjust the volume level up to 10 (minimum).
2. Press the Tuning Knob and rotate it to select either of below recording formats:
 - 129k BPS (WAV format, max 68 hours, 4G,)
 - 96k BPS (Mp3 format, max 215 hours, 4G)
3. Press the Tuning Knob to confirm your selection and start recording. The timer on the display starts to count.
4. Press the <  > button to pause and press it again to restart, press the <  > button to stop and auto store the recorded file into the memory.

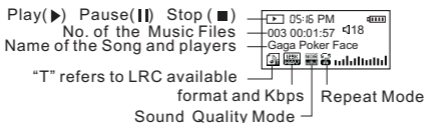
All recorded files can be located in the <Voice> folder of the <Main Menu>.

Note: A shortcut to the recording function is to directly press the <  > button, recording format is according to your last selection.

LISTEN TO MP3 FILES

LISTEN TO MP3 FILES

1. Turn on the unit and select <Music> from the “Main Menu”, then press the Tuning Knob to enter.



2. Rotate the Tuning Knob or press the <⏮> or <⏭> button to select music file. You can also directly enter the No. of the music file and press the <⏪> button to enter.
To search for a particular song, you can press the Tuning Knob in Stop Playing Mode and select Local folder to find.
3. Press the <⏩> button to play, press it again to pause; press the <⏹> button to stop.
4. While playing music file, press the Tuning Knob to enter the following settings:
 - Repeat: Normal, Repeat One, Repeat All, Random
 - Equalizer: Natural, Rock, Pop, Classic, Soft, Jazz, Bass, 3D sound
 - Tempo rate: -8 to 8 levels
 - Lyrics: Press the Tuning Knob to turn on/off
 - Exit

Note: 1. A shortcut to the Music playing in radio mode is to directly press the <Ⓚ> button.

2. The Lyrics must be in LRC format, use the same name as the song, and it must be located in the same folder.

LISTEN TO MP3 FILES

3. When playing the music, press the <SW Contrast> and the <AM Follow > button can directly select Repeat Type and Equalizer.
4. Bass equalizer is used for earphone listening, please select other equalizer when using speakers.

LISTEN TO THE FILES IN THE SD CARD

Transfer your selected MP3 format music files into the MICRO-SD card, insert the SD card into the slot at the bottom of the unit. Then turn on the unit, press the Tuning Knob in the music mode to enter the <music playing menu>, and find the files.

LISTEN TO MP3 FILES

DELETE MUSIC FILES

While not playing any music, press the Tuning Knob to enter the following settings:


- Local folder: Select music file
- Delete file: Delete a single music file
- Delete all: Delete all music files
- Exit

To operate above settings, press the Tuning Knob to enter or confirm, rotate the Tuning Knob for selection.





Note: You can also connect the unit to the computer to delete files.

- Caution:
1. Do not extract or insert the SD card when the unit is on. It may cause unit dead or file missing.
 2. SD card can not save recording files, recorded files can only be saved in the <Voice> folder.






A-B REPEAT



1. Select <A-B REPEAT> in <Main Menu>, and press the Tuning Knob to enter.
2. Select a song and press the <  > button to play.

Repeat:

When playing the music, press <  Repeat > once to set the starting point "A", <  > shows on the display and the "B" flashes. When reaches your desired position, press <  Repeat > again to set the ending point "B". Then the unit will repeat from A to B. While repeating, press <  Repeat > can cancel the repeating and keep on playing the music.

Read and Contrast:


While repeating, the symbol is <  >, press the <  Follow > button, the symbol will change to <  >, and now you can read. When finish reading, press <  Follow > again to listen to your reading record. You can repeatedly press <  Follow > to read and listen to the record. The default reading time is twice of the repeating time.

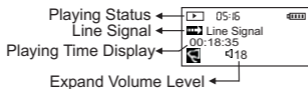
While playing the reading record, press <  Contrast > to contrast A-B repeating and your reading record. Press <  Contrast > to escape repeating.






USE AS AN ACTIVE LOUDSPEAKER

USE AS AN ACTIVE LOUDSPEAKER(LINE-IN)

Connect the unit to other medias(MP3, voice recorder, etc.) with the Line-in Cable, can increase the sound of the media connected.

1. Plug one end of the Line-in cable to the earphone jack of the audio equipment, and the other end into the Line-in Jack of the unit.
2. Turn on the unit and select <Loudspeaker> in “Main Menu”.
3. Press the <  > button and select “Line Signal”.




4. Press the <  > button to play.
5. Turn on the audio equipment.
6. Press the <  > or <  > button to select volume level.
7. Press the <  > button to pause/restart.
8. Press the <  > button to stop.




Note: Do not support all the medias.

USE AS A LOUDSPEAKER



USE AS A LOUDSPEAKER

1. Insert the external MIC into the external MIC Jack on the left side of the unit.
2. Turn on the unit, select <Loudspeaker> in “Main Menu” by press the Tuning Knob.
3. Press the <  > button and select “MIC Signal”.



4. Press the <  > button to start.
5. Press the <  > button to pause/restart; press the <  > button to turn off the speaker.

Note: 1. Close to the MIC while speaking

2. You can adjust the volume by press the <  > or <  > button.

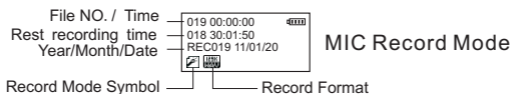
MIC RECORDING

MIC RECORDING

Select <Record> in “Main Menu”, press the Tuning Knob to enter.

1. Press the Tuning Knob to select REC type:

- Long Rec (Long time recording- 64K, WAV format)
- High Rec (High quality recording- 129K, WAV format)
- Fine VOR (High quality voice sensor recording- 128K, VOR format)







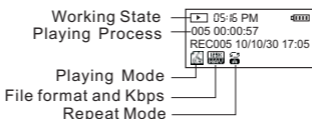
Fine VOR: If the audio source volume is too low, the recording will pause until the audio source volume increase to a recognizable level.

2. After select desired record format, press the <⏻> button to start, press the <⏸> button to pause/restart, and press the <⏹> button to stop. And the recorded file can be found in the local folder of <Voice> .

LISTEN TO RECORDING FILES

LISTEN TO RECORDING FILES

1. Select <Voice> in “Main Menu” and press the Tuning Knob to enter.
2. Press the <  > or <  > button to select file.
3. Press the <  > to play/pause the recorded file; press the <  > button to stop.



Note: While not playing, you can press the Tuning Knob and select <Local Folder> to find particular recording file.

- Local folder
- Delete file
- Delete all
- Exit

4. While playing recording files, press the Tuning Knob to enter the following settings:
 - Repeat: Normal, Repeat One, Repeat All, Random
 - Tempo rate: -8 to 8 levels
 - Exit

Note: Tempo rate “0” is the normal playing speed, positive number to speed up, negative number to slow down.

WORKING WITH EBOOK

WORKING WITH EBOOK

1. Select <Ebook> in <Main Menu>, press the Tuning Knob to enter.
2. Select your desired file by rotating the Tuning Knob, and press the Tuning Knob to enter below settings:
 - Local Folder: Select Particular File, press <⏪> to play.
 - Play set: Manual or Auto play file
(1~10 seconds page changing time)
 - Delete file: Delete a single file by rotating the Tuning Knob and select [Yes] to delete; [No] to exit.
 - Delete all: Delete all files by rotating the Tuning Knob to select [Yes] to delete; [No] to exit.
 - Exit

In manual play mode, rotate the Tuning Knob or press the <⏪>, <⏩> button to change the page; press the <⏹> button to exit.

3. While reading, you can press the Tuning Knob to enter:
 - Bookmark Select
 - Bookmark Delete
 - Bookmark Add
 - Exit


Note: Before using Ebook function, please first format your file to “.txt”, then copy to the unit.

SYSTEM SETTING

In <Main Menu> mode, rotate the Tuning Knob to select <Sys Set>, press the Tuning Knob to enter below settings:

Note: Selection time for each step is about 5 seconds.

- Time set
- Date set
- Calendar Info
- Alarm set
- Backlight
- Language
- Sleep Timer
- Power off mode
- Contrast
- Memory intro
- Firmware version
- Firmware upgrade
- Date format
- Time format
- Exit

Rotate the Tuning Knob or press the <◀▶>, <▶▶> button to select your desired function, and press the Tuning Knob to enter; press the <  > button to exit.

TIME SET

TIME SET

1. Select <Time Set> in Sys Set Mode by rotating the Tuning Knob.
2. Press the Tuning Knob and notice the hour-indicator flashes, then rotate the Tuning Knob or press the <◀>, <▶> button to adjust the hour; Press the Tuning Knob and notice the minute-indicator flashes, then rotate the Tuning Knob to adjust the minute; Press the Tuning Knob and notice the second-indicator flashes, then rotate the Tuning Knob to adjust second.
3. Press the Tuning Knob to confirm time setting.



DATE SET

1. Select [Date set] in Sys Set Mode.
2. Press the Tuning Knob to enter and notice the year flashes, rotate the Tuning Knob or press the <◀>, <▶> button to adjust the year, press the Tuning Knob to confirm; Then adjust the month and date with the same methods.
3. Press the Tuning Knob to confirm.




CALENDAR INFO

Select [Calendar Info] in Sys Set Mode, press the Tuning Knob to display the calendar information for few seconds.

ALARM SET

1. Select [Alarm] in Sys Set mode and press the Tuning Knob, [New] appears on the display.
2. Press the Tuning Knob again to enter the new alarm setting, [Normal alarm/ Power on/ Power off/ Exit] appears.
3. Rotate the Tuning Knob to select Normal Alarm and press the Tuning Knob. Now [Only Once/ Daily] shows on the display.
4. Rotate the Tuning Knob to select either [Only Once/Daily], press the Tuning Knob to enter [Alarm Time Setting].
5. Rotate the Tuning Knob to adjust hours, minutes and seconds. Press the Tuning Knob to confirm. Now it shows [Yes/No] and [Do you want to add?] on the display.
6. Rotate the Tuning Knob to select [Yes], press the Tuning Knob to confirm and enter the below setting sections:
 - Sleep Time: 1~30 minutes SNOOZE timer
 - Play Time: 1~30 minutes alarm time
 - Alarm Count: 1~30 alarm count
 - Alarm Music: Audio/Record alarm music selection
 - Alarm Volume: 1~31 level
 - Alarm Preview: Alarm with your preset music
 - Exit: Exit the alarm setting

Press the <  > button to turn off the alarm, and press any other buttons to pause the alarm, and it will play again in few minutes.

ALARM ON/OFF

ALARM ON

1. Select [Alarm On] under [New] in [Alarm set], follow the steps of the normal alarm set. After confirming the time, rotate the Tuning Knob to select [Yes], press it to confirm and enter the following selections:
 - Radio: Listens to the last radio station
(when auto turned on)
 - Music Audio: Plays the last music file
(when auto turned on)
 - Mic Record: Records via MIC (when auto turned on)
 - Radio Record: Listens to and recording the last radio station (when auto turned on)

- Note:**
1. [Normal Alarm], [Power on] timer, [Power off] timer settings share the same steps.
 2. You can Activate/Deactivate/Delete/Reset the alarm by press the Tuning Knob after selecting the particular alarm in [Alarm Set] mode.



- Alarm Symbol
- ✓ - Alarm Activated
- ✗ - Alarm Deactivated

ALARM OFF

Select [Alarm Set] in Sys Set mode and press the Tuning Knob to enter. [New] appears on the display. Press the Tuning Knob again, [Normal Alarm, Power off, Power on, Exit] appears. Rotate the Tuning Knob to select [Power off], then following the same steps in [Alarm Set].

Note: If the setting time of [Sleep Timer] is earlier than that of the [Alarm off], the [Sleep Timer] has the priority.

BACKLIGHT TIMER

Select [Backlight] in Sys Set mode, press the Tuning Knob to enter, then rotate the Tuning Knob to adjust the lighting timer from 5~30 seconds. Press the Tuning Knob to confirm and exit.



LANGUAGE SELECTION


Select [Language] in Sys Set mode, press the Tuning Knob, then rotate the Tuning Knob to select your desired languages.

Available languages:

- Chinese simplified
- Chinese traditional
- Russian

SLEEP TIMER

Select [Sleep Timer] in Sys Set mode, press the Tuning Knob to enter, then rotate the Tuning Knob or press the <  >, <  > button to adjust the auto turn off timer from 0~90, select "0" to turn off the sleep timer.

After set the sleep timer, <  > will shown on the display and a counting number next to the symbol.




POWER OFF MODE

POWER OFF MODE

Select [Power Off] in Sys Set mode, press the Tuning Knob to enter and rotate the Tuning Knob to enter the below settings:



Standby mode: After turn off the unit, you can check time by press any button.

Sleep mode: After turn off the unit, only the <  > button works. This mode can save more electricity.

CONTRAST SETTING

Select [Contrast] in Sys Set mode and press the Tuning Knob to enter. The brightness level 0~16 appears on the display, rotate the Tuning Knob to adjust, and then press the Tuning Knob to confirm and exit.

MEMORY INFO

Select [Memory Info] in Sys Set mode and press the Tuning Knob to display the memory status. Press the <  >, <  > can shift checking the memory status of the unit or the SD card.

DATE FORMAT

Select [Date Format] in Sys Set mode and press the Tuning Knob, then rotate the Tuning Knob to select the belowing date format:

- yyyy mm dd
- mm dd yyyy
- dd mm yyyy
- Exit

Press the Tuning Knob to confirm selection or wait for 5 seconds to automatically cancel and exit.

TIME FORMAT

Select [Time Format] in Sys Set mode, press the Tuning Knob, then rotate the Tuning Knob to select your desired time format, and press Tuning Knob to confirm.

- 12 Hour Mode
- 24 Hour Mode
- Exit

FIRMWARE UPGRADE

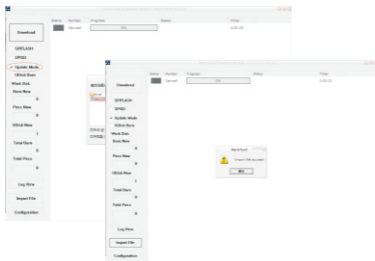
FIRMWARE UPGRADE

Before upgrade, please remove or copy the files in the unit to save place.

1. Download the upgraded firmware from our website to a computer. (<http://www.degen.com.cn>)
2. Use the provided USB cable to connect both unit and computer, then transfer the data to the unit.
3. Disconnect the USB cable, then turn on the unit and select [Firmware Upgrade] in Sys Set mode.
4. Press the Tuning Knob and select [Local Folder] to enter firmware upgrade software. [Updating, please wait!] appears on the display.
5. The unit will turn on automatically after [Updating Success!] appears on the display.

If the unit can not be turned on, please use a computer to upgrade by the following steps:

1. Download the ungraded firmware from our website to a computer.
2. Open [Burn Tool] under the DE1128 Firmware Upgrade Folder. The below program appears on the screen:



3. Select [Update Mode], and click [Import File] to choose the "DE1128***.upd", then connect DE1128 and computer with provided USB cable. Click [Download].
4. The [Device 0,0%] advancing till 100%, and the process bar turn to green.
5. Disconnect the unit and computer, the unit will turn on automatically.

- Note:
1. If the upgrade fails, cancel the selection of [Update Mode], and follow the same steps again. But please remove your files in the unit before this operation.
 2. If the computer is not incompatible with the unit, please try another computer.

KEY LOCK

To activate the locking function, push the <←○> button (on the left side of the unit) according to the direction shown on the unit, and the key lock symbol appears on the display; push it to the opposite direction to deactivate.

Note: If the unit has no response to any operation, please first check if there is the [←○] symbol shown on the display, please deactivate it before any operation.

SPECIFICATIONS

Specifications for Radio

1. Frequency Range

| | |
|----|------------------------------------|
| FM | 87.0 - 108.0MHz or 64.0 - 108.0MHz |
| AM | 522 - 1710 KHz |
| SW | 2.30 - 23.00 MHz |

2. Preset Memories: FM 99 AM 50 SW 99

3. Noise Limit Sensitivity

| | |
|----|-----------------------|
| FM | $\leq 5 \mu\text{V}$ |
| AM | $\leq 2.5\text{mv/m}$ |
| SW | $\leq 50 \mu\text{V}$ |

4. Signal Selection $\geq 40\text{dB}$

Specifications for MP3

- 5. Memory 2G/4G/8G
- 6. Record Format WAV/MP3
- 7. Max. Record Time about 215H (40kbps, MP3 format, 4G)
- 8. Earphone Output $\leq 10\text{mW} \times 2$
- 9. Communication Standard USB2.0(high speed)
- 10. Access Rate MP3: 16-320Kbps
WMA: 8-384Kbps

11. Max. Out Power (Speaker) $\geq 180\text{mW} \times 2$

12. Power Source

- Built-in Lithium Battery: 3.7V
- External Adaptor: 5V \approx 300~500mA

13. Lithium Battery Consumption (Volume is 22 Level)

- MP3: About 5H(by Speaker) Radio: About 5H (by Speaker)

- 14. Speaker D57mm \times 2
- 15. Earphone D3.5mm
- 16. Dimensions Approx 188 * 90 * 20 mm
- 17. Weight Approx 253g (incl. Battery)



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