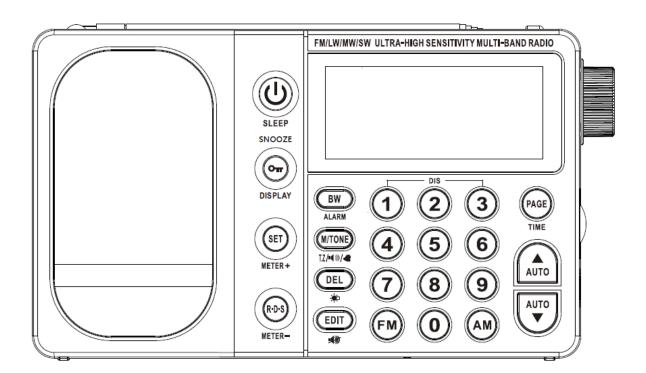
SR-286

High-Performance Digital Receiver

User Guide



QODOSEN

Ovember 2023 Version 1.0

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INTRODUCTION

Welcome to the world of the QODOSEN SR-286 radio receiver! With its superior performance and rich features, this radio offers enthusiasts an exceptional long-distance reception experience. The SR-286 employs the high-performance automotive chip TEF6686 from NXP, ensuring excellent selectivity and sensitivity. It supports FM, LW, MW, and SW bands, allowing you to thoroughly enjoy broadcasts from every band. In terms of antenna, the SR-286 supports external antennas for all bands. The amplitude modulation bands (LW/MW/SW) come with a built-in low noise amplifier switch, enhancing the reception sensitivity. The built-in adjustable antenna attenuator improves overload resistance. The overall signal-to-noise ratio >60db, brings an unprecedentedly superior sound quality experience. The FM band supports 64-108MHZ, with 17 different bandwidths for outstanding selectivity. It supports R(B)DS decoding, providing you with more information and entertainment. The LW and MW bands support the switching of telescopic antennas and built-in ferrite rod antennas, offering different reception experiences. Medium wave supports 9kHz and 10kHz stepping. The SW covers international shortwave bands, allowing you to enjoy global radio programs. The SR-286 offers various tuning methods and can set different search thresholds. Its compact, portable body supports power supply by 18650 batteries and can be charged and powered by an external power source. Equipped with a full-range speaker, the tone-switching function brings superb tonal performance. Whether at home or on the go, the SR-286 is your perfect companion. Its portability, playability, selectivity, and sensitivity will revolutionize your understanding of traditional radios, opening the door to a wonderful world of information and entertainment and taking your listening experience beyond imagination!

UNPACKING

The box should contain the SR-286 radio, protective bag, Carry Case, Warranty Card, Quick Guide, and this User Guide. If anything is missing or damaged, please get in touch with your dealer immediately. We recommend you keep the packaging in the unlikely event your radio will need servicing.

CAUTION

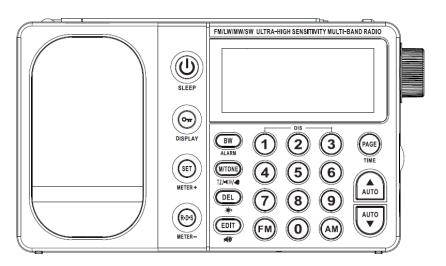
- · Before turning the unit on, set your volume control to a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly without distortion.
- · Long-term exposure to loud sounds may cause hearing damage. It is best to avoid

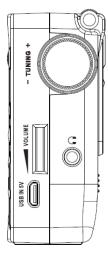
High-volume levels when using headphones/earbuds, especially for extended periods.

EXTERIOR CONDITION

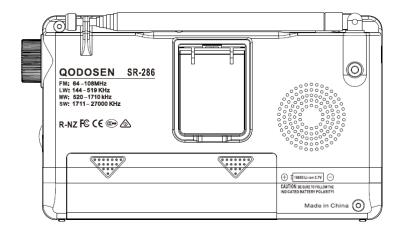
FRONT SIDE

RIGHT SIDE

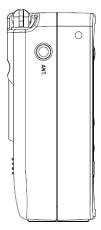




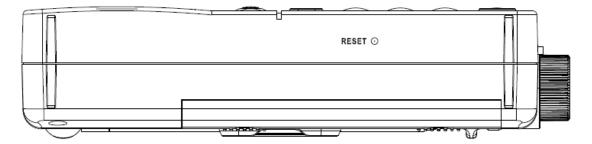
BACKSIDE



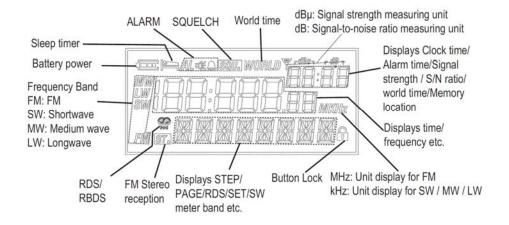
LEFT SIDE



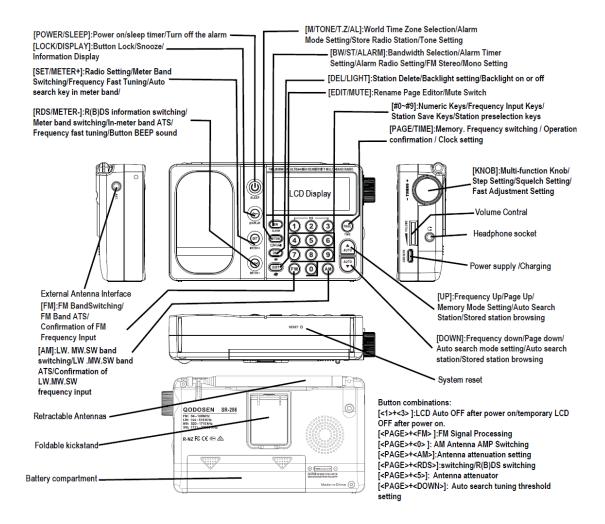
BOTTOMS



DISPLAY INDICATION



FUNCTIONALITY PREVIEW



LISTENING TO RADIO

POWER ON/OFF/SLEEP TIMER

1. Quickly Power On/Off The Radio

2. Setting the Sleep Timer

This unit's sleep time can be flexibly adjusted. Sleep timer shutdown up to 99 minutes, the shortest 1 minute, $1 \sim 99$ minutes of free choice; there are 2 ways to choose the sleep shutdown time: one is a Quick Press on the numeric keys $0 \sim 9$ to input directly, the other

one is to rotate the < > knob.

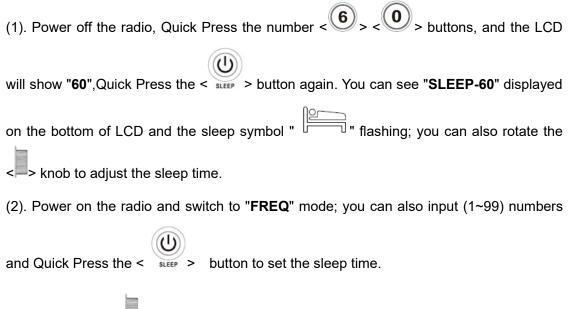
Sleep Time Display Format:

"SLEEP-XX(1~99)": The radio will automatically turn off after XX minutes.

"ON": The sleep timer is disabled, the radio won't turn off automatically.

Example: To make the radio power off automatically after 60 minutes of powering on the radio

Method 1: Use the numeric keys to enter the sleep time.



Method 2:Use < > To Select Sleep Time

Power off the radio, Press and Hold the < sume > button for 2 seconds until "SLEEP-XX" appears on the LCD and the sleep symbol " I flashes, rotate the < > knob to adjust to "SLEEP-60", Quick Press the < me > button to exit, or wait for 5 seconds to confirm the sleep time automatically.

VIEW SLEEP TIME

Power on the radio, Press and Hold the $\langle Suppose \rangle$ button for 2 seconds to display the remaining time for sleep shutdown.LCD show "**ON**", the radio will not turn off automatically

BAND SWITCHING

1. Switching to FM band: Power on the radio, and Quick Press the $< \bigcirc$ > button to switch to FM band.

2. Switching to LW/MW/SW band: Power on the radio, Cyclically Quick Press the < box > button to switch to the corresponding LW/MW/SW band. (**Tip:** To listen to the LW band, you need to set "LW ON".)

FREQUENCY CHANGE MODE"FREQ"/

MEMORY- PRESELECTED STATION MODES"MEMO"

The unit has 2 modes:Frequency Tuning Mode "**FREQ**" Memory/Preselected Station Mode "**MEMO**"

"MEMO" mode: Power on the radio, and Quick Press the < TIME > button, "**PAGE-XX**" will be displayed on the bottom of LCD, then it will enter the memory, Preselected radio station

mode, referred to as "**MEMO**" mode; in "**MEMO**" mode, knob < > to select the radio station address, < > or < > button to select the page.

"FREQ" mode: Quick Press the < TIME > button again, the LCD does not show "PAGE-XX" or other displays, it enters the frequency tuning mode, referred to as "FREQ" mode. In "**FREQ**" mode, knob < > and < > or < > button as a frequency adjustment/auto search function.

TUNING/SEARCHING FOR RADIO STATIONS

The unit has 5 tuning modes.

1. Manual Tuning

Power on the radio and switch to "**FREQ**" mode, Quick Press the < > or < > button,

or rotate the $<\square>$ knob to change the tuning frequency and search for a satisfactory station.

2. Automatic Radio Station Search

(1). Auto Search Mode Setting: STOP/DELAY mode

This unit has 2 automatic search mode settings, which can be set according to your reference.

STOP/DELAY Mode Setting Method:

1). Power off the radio, Press and Hold the < > button for 2 seconds to enter SEEK mode setting, Quick Press the < > button to switch to "STOP" or "DELAY-XX" mode, the LCD will show "STOP" or "DELAY-XX" (XX=5~90) flashing, the LCD will show "STOP" or "DELAY-XX" (XX=5~90), the LCD will show "STOP" or "DELAY-XX" (XX=5~90).

2). After selecting **"STOP**" display, Quick Press the < TIME > button directly to confirm **STOP** mode.

3). Select "DELAY-XX" display, rotate the < > knob to select 5~90 (unit: second), and

press the < TIME > button to confirm **DELAY** mode.

(2). Automatic Station Search In STOP/DELAY Mode.

STOP Mode: Power on the radio and switch to "FREQ" mode, and Press and Hold the

< $interval}$ > or < $interval}$ > button for 2 seconds, the frequency will stop searching when it automatically searches for a valid station.

DELAY mode: Power on the radio and switch to "**FREQ**" mode, and Press and Hold the > or < > button for 2 seconds, after auto searching a valid station, the LCD will show "**DELAY-XX**", wait for **XX**(XX=5~90) seconds, and then continue to auto search the next station.

3.AUTO TUNING STORAGE (ATS)

There are 2 "ATS" methods: ATS_JUMP / ATS COVER.

Setting Method:

1). Power off the radio, Press and Hold the < button for 2 seconds to switch the display of **ATS_JUMP /ATS COVER :**

ATS_JUMP means that during ATS, it will only select the empty address that has not been stored; when it has been entirely stored, it will exit ATS automatically.

ATS COVER means that during ATS, it will store the stations according to the address from smallest to largest. (P00.P01...Pnn...Pnn+1, see the **Tip** for the starting address of each band); the new station's frequency will overwrite the station stored at the current address.

2). Quick Press the < THE > button to confirm the exit.

Tip:

When starting ATS operation:

The FM band stations starting from PAGE 0.

The LW band stations starting from PAGE 25.

The MW band stations starting from PAGE 30.

The SW band stations starting from PAGE 45.

ATS Function Operation:

According to the current band, Press and Hold the corresponding band button for 2 seconds to enter the ATS function.

1). Power on the radio, Press and Hold for 2 seconds the < (FM) > or < (AM) > button to enter the ATS, and release the button; the valid station is searched and stored, and

"PXXX" is displayed on the upper right corner of the LCD (format: e.g., P256 means the 6th position on page 25).

Tip: The < button corresponds to the FM band ATS.

The < > button Corresponds to LW/MW/SW band ATS

2). During ATS, Quick Press any button briefly to stop ATS.

4. Knob Change Frequency

1. Switching frequency acceleration/normal mode: SPEED ON/SPEED OFF

Power off the radio, Press and Hold the button on the right knob<

The LCD shows "SPEED ON", when the acceleration function is enabled. When adjusting

the frequency using the < > knob, rapidly rotating the < > knob will result in a faster step change. (see **table: Knob Tuning Frequency Step Explanation**).

The LCD shows "**SPEED OFF**", Indicates that the rotary < > knob change frequency acceleration function is off.

2. Step switching: FAST/SLOW/STOP/AUTO

Power on the radio, Quick Press the < > knob button to switch FAST/SLOW/STOP

/AUTO.

Table 1:Knob Tuning Frequency Step Description

MODE STEP BAND	FAST	SLOW	Αυτο	STOP	FAST SPEED ON (fast spinning)	SLOW SPEED ON (fast spinning)	ATS
FM	50KHZ/	10KHZ	50KHZ/	cessation	1000KHZ	100KHZ	50K/
(FM Step see settings section,	100KHZ/		100KHZ/				100K/

default 100K)	200KHZ		200KHZ				200K
LW	3KHZ	1KHZ	3KHZ	cessation	100KHZ	ЗКНΖ	ЗК
MW	9KHZ/	1KHZ	9KHZ/	cessation	100KHZ	9KHZ/	9K/10K
	10KHZ		10KHZ			10KHZ	
SW	5KHZ	1KHZ	5KHZ	cessation	100KHZ	5KHZ	5K

"AUTO" Mode:

- 1. Rotate the < > knob Clockwise, the frequency will automatically search upwards.
- 2. Rotate the < > knob counterclockwise, the frequency will automatically search downwards.

5. Direct Input Of Radio Frequency (Only In "FREQ" Mode)

Power on the radio and switch to "FREQ" mode, the frequency can be entered directly by Quick Press the numeric keys (0~9); Quick Press on the corresponding band $<\overline{(FM)} > < \overline{(AM)} >$ button to realize cross-band frequency input(Example 1/Example 2); If you input the frequency by numbers (0~9) without pressing the corresponding band $<\overline{(FM)} > < \overline{(AM)} >$ button to confirm the frequency, it will automatically confirm the frequency to the current band frequency after 2 seconds (Example 3); if the frequency input is wrong/incorrect, "ERROR" will be displayed.

Methods Of Operation:

1). Quick Press the numeric keys 0~9 to enter the desired frequency in sequence.

2). Quick Press the $\langle \widehat{FM} \rangle$ or $\langle \widehat{AM} \rangle$ button to confirm the frequency of the FM or **LW/MW/SW** band.

Example 1:

Listen to FM: 107.500MHZ, Quick Press the <0><0><0><5><5><1>> buttons in any band.

Example 2:

Listen to MW: 1287KHZ, Quick Press the < 0 > 2 > 8 > 7 > 8 > 0 > 1287 buttons in

any band.

Example 3: In the FM band, Quick Press the <0><0><5> buttons in sequence, and after 2 seconds, the unit automatically confirms the frequency of 107.5 MHZ in the FM band.

Notes:

1. If the input error exceeds the frequency range, LCD will show "**ERROR**"; If the input frequency is incomplete, the trailing number will be filled with zeros based on the band

confirmation. For example, Quick Press the $< \bigcirc > < \bigcirc >$ buttons directly jumps to the FM band at 100.000MHz.

2. If you set the LW band off, the error will be displayed when you input the LW frequency; if you set the LW band on, the error will disappear (for detailed settings, please refer to the section of radio setting LW).

3. If the input FM frequency (64~87MHZ) is displayed incorrectly, please make sure that you have selected the correct FM frequency range (see the FM section of the radio setup for detailed settings).

SW METER BAND/FAST TUNING FREQUENCY

Meter-Band Frequency Operation

Meter Band Switching: Power on the radio and Quick Press the < +> >/< + > button to adjust the meter band up or down.

Auto search in meter band: Press and hold the < with > button for 2 seconds to enter the current auto search in meter band, and the search will stop automatically when it reaches a valid station.

Auto Search Station (ATS) In Meter Band: Power on the radio, Press and Hold the < box > button for 2 seconds to enter ATS in the current meter-band frequency range.

Fast Tuning Frequency (Valid For FM/LW/MW Bands)

1. POwer on the radio and switch to the FM band; Quick Press the $<\frac{(5EF)}{METER*}$ > button to step up the frequency by 1MHZ; Quick Press the $<\frac{(5EF)}{METER*}$ > button to step down the frequency by 1MHZ.

Tip: When turn on RDS function in FM band, < box > button is R(B)DS message switching, the Fast Tuning Frequency button is invalid.

2. Power on the radio and switch to the LW/MW band; Quick Press the < button to step up in 100KHZ; Quick Press the < button to step down in 100KHZ.

ATS/SEEK SEARCH THRESHOLD SETTING

Power on the radio, Press and Hold the $< \underbrace{\bigoplus_{\text{TWE}}}_{\text{TWE}} > + < \underbrace{\bigoplus}_{\text{V}} >$ buttons simultaneously for 2 seconds,, the LCD shows

"DEFAULT": default threshold.

"SEEK:1": ATS/SEEK receives more stations, and weaker stations can be received, but it is possible that the received stations are not clear.

"SEEK:2": ATS/SEEK receives fewer stations, the quality of the radio station is good, and the listening is clear.

Tip: The number of radio stations searchable at the threshold

SEEK:1> DEFAULT>SEEK:2.

FM R(B)DS FUNCTION

RDS Switch Setting

Power on the radio, Press and Hold the < \xrightarrow{PAGE} >+ < $\xrightarrow{(ROS)}$ > buttons simultaneously for 2 seconds, the LCD shows

"RDS ON": Turn on R(B)DS

"RDS OFF": Turn off R(B)DS.

RDS Information View

When receiving FM radio,RDS/RDBS function is turned on (See **Radio Settings** for RDS/RBDS options) ; if the radio station has R(B)DS, the LCD will show the R(B)DS

symbol ", Quick Press the < > briefly to switch to select different R(B)DS information (**PS/PTY/ RT/DATA/PI)**.

Tip :

PS (program service)—Provides 8-character radio station name display; "**NO PS**" is displayed when PS is not received.

PTY (program type)—Provides a radio program type display;" **NO PTY**" is displayed when no PTY is received.

RT (radio text)—Provides up to 64 characters of radio text display information; " **NO RT**" is displayed when RT is not received.

DATA—Provides current time information, including day/month/day/year/hour/minute; **"NO DATA** "is displayed when DATA is not received.

PI (program identification)---Provide station identification code; **"NO PI "**is displayed when PI is not received.

The display format when a DATA message is received is:

"Day of the week Month-Day-Year Hour: Minute"

Weekly display format:

"MON" Monday

"TUE" Tuesday

"WED" Wednesday

"THU" Thursday

"FRI" Friday

"SAT" Saturday

"SUN" Sunday

For example: Tuesday, October 1, 2023 at 8:30 pm

The LCD's DATA scrolling message is:

" TUE 10- 01-2023 08:30"

Hints: It is recommended to set the bandwidth to BW AUTO mode or BW 72K or above for receiving R(B)DS data.

FM SIGNAL PROCESSING

This unit is equipped with 4 different FM signal processing, which may be helpful when receiving weak signals (FMDX) set in the default mode (DEFAULT).

Power on the radio and switch to FM band, Quick Press the < Time >+< >+< buttons simultaneously to select different mode "**DEFAULT**" /" **FMMI** \rightarrow **X**"(X=3).

STORING RADIO FREQUENCY OPERATIONS

This unit adopts a cross-band way to store radio stations; there are 100 storage pages (0~99), each page has 10 radio stations, 1,000 radio frequencies can be stored, according to the reasonable arrangement of the band storage page, the bandwidth and sound mode **(MUSIC/VOICE)** will be stored together when storing stations.

Page Selection: There are 2 ways to select a page .

Power on the radio:

1. **Use the numeric keys to enter a page**:Power on the radio and switch to "**FREQ**" mode, Quick Press the numeric button to input page directly and then Quick Press the

<
$$\frac{PAGE}{TME}$$
 > button to confirm; for example, to select "**PAGE-20**", Quick Press to input the < (2) > (0) > ($\frac{PAGE}{TME}$ > buttons.

2. Use the < > or < > button to select a page: Power on the radio and switch to

"**MEMO**" mode, Quick Press the < > or < > button to cycle through the pages.

Tip: Note the distinction between **"FREQ"/"MEMO"** mode.

Manual Storage Of Radio Frequencies:

There are 4 methods to manually store radio stations.

1. Use The < Button To Quickly Store Stations:

Stores radio stations in the order of their addresses, automatically skipping the addresses of already stored radio stations.

Methods Of Operation:

Power on the radio, and Quick Press the < where > button, "PAGE-XX" is displayed at the bottom of LCD, "PXXX" is displayed at the top right corner, Quick Press the

< 12/400/4 > button again to finish storing.

2. Use The Numeric Keys To Quickly Store Stations

To store the radio station to the 0~9 address corresponding to the current page, you need to Press and Hold the "0~9" numeric key for 2 seconds in "**FREQ**" or "**MEMO**" mode. However, the distinction is that in "**MEMO**" mode, you can also select the corresponding page while storing the station.

Methods Of Operation:

Power on the radio, Press and Hold the "0~9" numeric key for 2 seconds, the upper right corner of LCD will show "**PXXX**", the current radio station is stored successfully.

3. <u>Specified Address Storage:</u> You can store the radio station to any specified location.

Methods Of Operation:

- 1). Power on the radio, and Quick Press the < www > button, "PAGE-XX" will be displayed at the bottom of LCD, and "PXXX" will be displayed at the top right corner.
- 2). Rotate the < > knob LCD upper proper corner display "PXXX" to select the storage

address, can also combine the use of Quick Press or hold the < > /< > > > button for 2 seconds (continuous page adjustment) to select the addition or subtraction page, and then Quick Press the number keys (0-9), after selecting the address, Quick Press

the $< \frac{1}{12}$ button LCD below the shows of "**SAVED**" to complete the storage of the station. Another way:You Press and Hold the numeric key (0~9) for 2 seconds to store directly to the (0~9) address of the current page.

Operation Demonstration: Store 107.5 MHZ to address P168 (i.e., address 8 on page 16).

- 1). Power on the radio and adjust the frequency to 107.5 MHZ.
- 2). **Method 1:** Quick Press the < ^{II/MI/4} > button, rotate the < > knob to adjust to the P168 position (LCD shows "**PAGE-16**" at the bottom and "**P168**" at the upper right corner). Quick Press the < ^{II/MI/4} > button to finish

at the upper right corner), Quick Press the < [2] saving.

Method 2:Quick Press the < button, then Quick Press or hold the < > /< > button for 2 seconds (continuous page adjustment) to adjust the page to PAGE-16 ("PAGE-16" is displayed at the bottom of the LCD,

and "P16X" is displayed at the upper right corner). Quick Press the < > button "P168" is displayed on the upper right corner of LCD, then Quick Press the < (12) button "SAVED" is displayed on the

lower part of LCD to save the station.

Method 3: Quick Press the < ILANNA > button , then Quick Press or hold the < > / < >> button for 2 seconds (continuous page adjustment) to adjust to PAGE-16("PAGE-16" is displayed at the bottom of the LCD, and "P16X" is displayed at the upper right corner). Press and Hold the < > button for 2 seconds, "SAVED" is displayed at the bottom of the LCD, and the

4. Use DELAY Mode Auto Search To Store Stations

station is saved.

Tip: This function is effective only in "**DELAY**" mode (see **STOP/DELAY Mode Setting Method** for details).

Power on the radio and switch to "**FREQ**" mode; Press and Hold the $\langle \widehat{\text{LV}} \rangle / \langle \widehat{\text{VV}} \rangle$ button for 2 seconds to enter the searching radio station. After receiving the valid radio station, LCD will show"**DELAY-XX**", then Quick Press the $\langle 12/40/4 \rangle$ button, then the current radio station has been stored.

BROWSE SAVED STATIONS: < > BROWSE/(0~9) NUMERIC KEY BROWSE

1.< > Browse Storage Radio: Power on the radio and switch to "MEMO" mode, and

rotate the $\langle \square \rangle$ knob to browse the saved stations.

2. (0~9) Numeric Key Browse: Power on the radio and switch to "MEMO" mode; Quick Press or hold the $\langle \widehat{\text{Mod}} \rangle / \langle \widehat{\text{Mod}} \rangle$ button for 2 seconds (continuous page adjustment) to adjust the page ,then Quick Press the numeric key (0~9), and you can browse the stations stored in address (0~9) of the current page,.

AUTOMATIC BROWSING OF SAVED STATIONS

Power on the radio and switch to "**MEMO**" mode, and Press and Hold the < (> or

> button for 2 seconds to enter auto browse for stored stations; Quick Press any button to exit .

DELETING STORED RADIO STATIONS

Four Methods Of Deleting Stations:

Deleting a specific page (PAGE0~99)/Deleting a station with a particular address (P000~P999)/Deleting a station by browsing/deleting the stored stations on all pages.

1. Delete The Specified Page (PAGE0~99)

1). Power on the radio, Press and Hold the $<\frac{DEL}{*}$ > button for 2 seconds, "DEL" and "PAGE-XX" will be displayed alternately on the LCD to enter the deletion mode.

2). Quick Press or hold (continuous page change) the < > / < > button for 2 seconds to adjust the page to be deleted, Quick Press the < > button to complete the deletion, and the LCD displays "PXX D OK", "PXX" means XX page.

3). Quick Press the < THE > button to exit the delete operation.

2. Delete The Specified Address Radio Station (P000~P999)

- Power on the radio, Press and Hold the < but > button for 2 seconds, LCD will show "DEL" and "PAGE-XX" alternately to enter the delete mode.
- 2). Quick Press the < > or < > button to adjust the page, and Quick Press 0~9 to delete the corresponding (0~9) radio station on the current page; after deletion, LCD will show "PXXFX D OK", "PXXFX" (the Xth address of the XXth page of the radio station).
- 3). Quick Press the < TIME > button to exit the delete operation.

3. Browse and Delete Radio Stations

- 1). Power on the radio, Press and Hold the < button for 2 seconds, LCD will show "DEL" and "PAGE-XX" alternately, then enter the delete mode.
- 2). Rotate the <-> knob to browse the radio station. The upper right corner of the LCD will show the radio station's address "**PXXX**". To delete the currently stored radio station,

Quick Press the < > button. After deletion, the LCD will show "PXXFX D OK". "PXXFX" represents the X address of the XX page of the radio station. PAGE

3). Quick Press the $< \frac{1}{100} >$ button to exit the delete operation.

4. Delete All Pages Of Stored Radio

Power on the radio, Press and Hold the $< \frac{\text{DEL}}{*}$ > button for 10 seconds until the LCD

shows "ALL DEL", the stations are all deleted.

EDIT PAGE NAME

Demonstration:

Example: Rename Page 00 to "ABC".

1). Power on the radio, select the page to be renamed "**PAGE-00**" in "**MEMO**" mode.

2). Press and Hold the < * > button for 2 seconds, enter page rename status, LCD appears cursor "_" flashing.

3). Rotate the < > knob to select the letter "**A**", then Quick Press the < $\frac{}{}$ > button to move the cursor, then rotate to the letter "**B**", similarly repeat the operation 8 times, and the renaming is complete.

Tips:

Page).

(1). To display a blank at the cursor position, while the cursor is flashing "_", refrain from

rotating the < > knob; simply Quick Press the < > button to skip the current cursor position. For instance, after selecting "ABC", if the following five positions

are blank, you can consecutively Quick Press the $<\frac{e}{me}$ > button five times to skip the current cursor position.

(2). To delete the rename of a page, you can Quick Press the < but but on 8 times in a row without rotating the < > knob after step 2, and the page will return to the default "PAGE-XX"; or by deleting the page will remove the rename(see Delete The Specified

MUTE FUNCTION

Power on the radio, Quick Press the < w>> button, LCD shows "MUTE ON" means mute, "MUTE OFF" indicates that mute is disabled.

Note: If the squelch function is on, the mute < + > button function will not work.

BACKLIGHT FUNCTION

To Set The Backlight To Always On/10 Seconds Off

Power off the radio, Press and Hold the $<\frac{DEL}{*}$ > button for 2 seconds, the LCD shows

"LIGHT ON": Backlight is always on.

"LIGHT OFF": The backlight will automatically turn off after 10 seconds with no other operation.

Power On/Off The Backlight

Quick Press the $< \frac{\text{DEL}}{*}$ > button to control the backlight on or off.

LCD SHOWS OFF/ON

Lcd Always Shows/Not show after 2 seconds of operation:

Power off the radio, Press and Hold the <3 > and <3 > combination buttons simultaneously for 2 seconds, the LCD shows:

"DIS ON" to indicate constant visibility when the radio is turned on.

"DIS OFF" to indicate visibility only during radio operation, automatically turning off after 2 seconds of inactivity.

Tip: Turning off the LCD reduces interference when receiving feeble signals.

Temporary LCD OFF:

Power on the radio, Quick Press the $< \bigcirc >$ and $< \bigcirc >$ buttons at the same time while powering on the radio can temporarily turn off the LCD display. Pressing any button will turn the LCD back on.

TONE SWITCHING

M/TONE

Power on the radio, Press and Hold the < 12/40)/4 > button for 2 seconds,the LCD shows

"VOICE" indicates news mode.

"MUSIC" indicates music mode.

FM BAND STEREO/MONO

Automatic stereo/mono switching is only possible when headphones/earbuds are plugged in; without headphones/earbuds plugged in, it will always be in mono mode.

Method of operation: Power on the radio and switch to FM band, Plug

headphones/earbuds into the right $< \bigcirc$ > socket, and Press and Hold the $< \bigcirc$ > button for 2 seconds to switch between mono/stereo:

LCD shows "MONO " indicates mono mode.

LCD shows "AUTO" indicates stereo mode.

when the stereo sound is detected, the LCD will show "STEREO", and show the " ST_{o} ",

if there is no stereo sound, it will show " **MONO**" while not displaying the " $\mathbb{ST}_{\mathbb{T}}$ ".

Note: It is not possible to set the alarm radio frequency when headphones/earbuds are inserted.

BANDWIDTH SWITCHING

Power on the radio, and Quick Press the < button to toggle the bandwidth, the

display will show "**BW XXK**" you can also rotate the <**■**> knob to select the bandwidth.

FM bandwidth selection: AUTO /56 / 64 / 72 / 84 / 97 / 114 / 133 / 151 / 168 / 184 / 200 / 217 / 236 / 254 / 287 / 311 kHz

Note: The FM band bandwidth selection AUTO is the automatic bandwidth.

AM bandwidth selection: 3 / 4 / 6 / 8 kHz

SQUELCH SETTING

Power on the radio, Press and Hold the button on the right knob < > for 2 seconds, and the display will show "SQUELCH-XX" (XX=1~9); rotate the < > knob, select 1~9 means the squelch is on, 1~9 represents different squelch level, select "OFF" indicates the

squelch is off. Quick Press the button of the < > knob again to exit .

BUTTON BEEP SWITCH

Power off the radio, Press and Hold the < METER- > button for 2 seconds:

LCD shows "BEEP ON", button beep is on.

LCD shows "BEEP OFF", button beep is turned off.

Note: The radio turns off without a button beep and turns on with a button beep.

LW/MW ANTENNA SWITCHING

Power on the radio and switch to LW or MW band; Press and Hold the $< \frac{PAGE}{TME} > + < Om >$ buttons simultaneously for 2 seconds :

LCD shows "**ANT-INT**" means that LW/MW reception is using the internal ferrite bar antenna, this mode is suitable for indoor reception (default).

LCD shows "**ANT-EXT**" means that LW/MW reception is with tie telescopic antenna, this mode is suitable for outdoor reception.

Note: If you want to use an external antenna to receive LW/MW signals, set it to "**ANT-EXT**". The ANT interface on the left side of the fuselage is effective for LW/MW external antenna reception.

EXTERNAL ANTENNA SOCKET

This radio can receive signals using an external antenna. Plug the external antenna into

the ANT < ^{*} > socket on the left side of the radio. (**Tip:** For LW/MW bands, switch to "**ANT-EXT"** to utilize the external antenna.)

Note: Do not use an external antenna during thunderstorms to prevent lightning strikes.

ANTENNA AMP SWITCH

Power on the radio and switch to LW or MW band, Press and Hold the $< \frac{(AGE)}{TWE} > + < O >$ buttons simultaneously for 2 seconds to switch the AMP circuit on or off :

LCD shows "AMP ON" means the AMP line is turned on (default).

LCD shows "AMP OFF" means the AMP line is turned off.

Note: LW/MW is only effective when "**ANT-EXT**" is connected to an external mast antenna or external antenna status.

ANTENNA ATTENUATOR

Power on the radio, Press and Hold the $< \frac{PAGE}{TIME} > + < 5 >$ buttons simultaneously for 2

seconds , and the LCD will show "ATT XXDB" or "DEFAULT", rotate the <-> knob, change the attenuation level."DEFAULT" is the default state with no attenuation, "ATT XXDB" means attenuation "XX" dB. If you select the attenuation state, LCD will show

"RE" flashing, the default no attenuation state does not have the "RE" display.

Note: ATT attenuation parameters are field adjustable and will reset to a disabled attenuation state after a band switch or radio shutdown. The next setting remembers the last field attenuation and there are separate parameters for each band.

DISPLAY INFORMATION SWITCHING

With Radio Off: Cyclic Quick Press the < > button, switch time zone time/alarm time display

With Radio On: Cyclic Quick Press the < button, switch signal indication/time zone time/alarm time/local time display

VOLUME CONTROL

Volume Control: Power on the radio, Rotate the < Nobel value with the select your desired volume level, the LCD below shows "**VOL-MUTE, VOL-1** **VOL-MAX**", the volume will gradually increase or decrease.

HEADPHONES/EARBUDS LISTENING

If you need to use headphones/earbuds to listen to the radio, plug the headphones into the right < > socket to switch to the headphones/earbuds output mode.

RADIO SETTINGS

1). Power off the radio, Press and Hold the < but > button for 2 seconds, and the display will show "MW-XXK" rotate the < > knob, and you can select "FM-XXXM", "FM-XXXK", "FM-R(B)S", "FMDE-XXUS", "LW-XX".

2). After selecting the option you want to set, Quick Press the < (str) > button briefly and cyclically to adjust the setting options.

3). To continue setting other options, continue to rotate the < > knob, and then Quick

Press the < were > button repeatedly to adjust the relevant settings of the current choice.

4). If you want to end the setup, Quick Press the < THE > button briefly to finish the setup.

Display the description of the corresponding settings:

"MW-9K" MW frequency step is 9KHZ.

"MW-10K"—MW frequency step is 10KHZ.

"FM-64.0M"—FM frequency range is 64.0~108MHZ.

"FM-76.0M"—FM frequency range is 76.0~108MHZ.

"FM-87.0M"—FM frequency range is 87.0~108MHZ.

"FM-87.5M "—FM frequency range is 87.5~108MHZ.

"FM-100K"—FM frequency step is 100KHZ.

"FM-200K"—FM frequency step is 200KHZ.

"FM-50K"—FM frequency step is 50KHZ.

"FM-RDS"—Data received by FM is in RDS format

"FM-RBDS"—Data received by FM is in RBDS format

"FMDE-75US"—Time constant for de-emphasis of FM is 75 us.

"FMDE-50US"—Time constant for de-emphasis of FM is 50 us.

Note: 75 us. Used in USA (default)/ 50 us. Used in Europe, Australia, Japan, China

"LW-ON"—LW band is On.

"LW-OFF"—LW band is Off.

SETTING WORLD TIME

1). Power off the radio, Press and Hold the < 1240 > button for 2 seconds, and the LCD will show "XXX<XX>".

2). Rotate the < > knob to switch between codes, LCD displays time for each time zone; PAGE Quick Press the < We > button to confirm, the upper right corner of the LCD will show

"world XX: XX", which is the corresponding time zone.

Table 2:UTC time difference

lag	Major Cities and Codes by Region
-9	ANC-Anchorage
+8	BEG-Beijing
+7	BKK-Bangkok
+2	CAI-Cairo
-4	CCS-Caracas
-6	CHI-Chicago
+6	DAC-Dhaka
+5	DEL - Delhi
-7	DEN - Denver
+4	DXB - Dubai
0	GMT - GMT
+8	HKG - Hong Kong
-10	HNL - Honolulu

+3	JED - Jeddah
+5	KHI - Kashi
-8	LAX - Los Angeles
0	LON - London
+11	NOU - Noumea
-5	NYC - New York City
+1	PAR - Paris
-3	RIO - Rio De Janeiro
+10	SYD - Sydney
+9	TYO - Tokyo
+12	WLG - Wellington

SETTING THE CLOCK

Notes:1.The first time you set the clock, you need to select the correct local time zone, so that you will not make a mistake when selecting UTC.**2**. After setting the local time zone and clock, adjusting the UTC will not change the local time zone and clock, only when setting the clock again will change the time zone. For example: the current radio has been set to UTC "**WLG**<**+8**>", local time zone "**TYO**<**+9**>", if you set the clock directly, then the local time zone becomes "**WLG**<**+8**>".**3**. Therefore, to obtain accurate world time, the first time you set the local clock, you need to follow the steps: **Select the local time zone** -> **Set the clock** -> **Select world time**.

1). Ensure that you have set the time zone for your current region (see "**Setting World Time**" for details).

2). Power off the radio, Press and Hold the < TIME > button for 2 seconds, "CLOCK SET" flashes on the bottom of the LCD, and the number of hours flashes.

3). Rotate the < > knob to set hour, Quick Press the < read > button to enter minute setting, minutes flashing, rotate the < > knob to set minutes, Quick Press the < read > button to confirm.

4). The LCD shows flashes "**RDS AUTO"** or "**MANUAL**", Rotate the < > knob to Select

"RDS AUTO" or "MANUAL", and Quick Press the < me > button to confirm.

RDS AUTO: Receiving FM radio stations with RDS/RBDS in the FM band can automatically update the time.

MANUAL: Manually set the time, does not automatically update the time.

Notes:

1).If the RDS is turned off, there is no step 4 operation, and clock setting is completed in step 3.

2).In "RDS AUTO" mode, if the signal of an FM radio station with RDS is weak, it may cause an RDS decoding error, resulting in a wrong time display.

ALARM CLOCK WORKING MODE SELECTION

Setting The Alarm Time

1). Power off the radio, Press and Hold the < with solution for 2 seconds, LCD lower

shows "ALARM SET" flashing, timing symbol " or " ror " flashing, hours flashing.

2). Rotate the < > knob to set the hour, Quick Press the < we' > button to set the minute, rotate the < > knob to set the minute when the minute is flashing, and finish setting the minute.

3). Quick Press the $<\frac{1}{1}$ button LCD shows "**DELAY-XX**", rotate the $<\frac{1}{1}$ knob to set the alarms duration of the desired alarm (1~99 minutes), Quick Press the $<\frac{1}{1}$ button to complete the alarm clock timing setting.

Alarm Working Mode Setting: "SPEAK"/"BUZZER"/"ALARMOFF"

Alarm has 3 modes, 1. Alarm buzzer "BUZZER"; 2. Alarm radio "SPEAK", you can set the radio frequency as the alarm frequency. 3. Alarm disable to wakeup "ALARMOFF".

1). Power off the radio, Quick Press the < button, to show "**SPEAK**" at the bottom

of the LCD and "All of the top. The alarm clock will wakeup in alarm radio mode.

- 2). Quick Press the < where > button to show "BUZZER" at the bottom of the LCD and
- " $A \square \square$ " at the top. The alarm clock will then wakeup in alarm beep mode.
- 3) . Quick Press the < 1/1/1/2 > button to show "ALARMOFF" at the bottom of the LCD and

" AL" at the top. The alarm clock will deactivate the alarm wakeup mode.

Alarm Radio Mode Frequency Setting

To set the alarm frequency, turn on the radio to adjust the desired frequency. Then, Press and Hold the < box > button for 2 seconds, and "AL FREQ" will be displayed at the bottom of the LCD, the alarm clock wakeup radio frequency setting is completed. When the alarm is selected to be radio station mode, the radio will select the set frequency to play the station.

Turn Off The Alarm When It Rings

If you want to turn off the alarm after it has been activated, Quick Press the $< \underbrace{\textcircled{}}_{uv}$ > button briefly to cancel the alarm.

Snooze Function

When the alarm wakeup, Quick Press the $\langle \widehat{usrue} \rangle$ button to temporarily turn off the alarm. The alarm will go off again after 5 minutes. To disable this feature while still snoozing, Quick Press the $\langle \widehat{usrue} \rangle$ button.

LOCK BUTTON

- 1). Press and Hold the < button for 2 seconds, LCD " " symbol will flash, enter lock state, all buttons, the < > knob, volume knob is invalid.
- 2). Press and Hold the < DISPLAY > button for 2 seconds, LCD "

unlock state, all buttons, the < > knob, volume knob effective.

RESET RADIO

To resolve display errors, button malfunctions, or other abnormalities, use a sharp object like a toothpick to Quick Press the < $^{RESET \odot}$ > button once. This will restore everything back to normal.

RESTORE FACTORY SETTINGS

Press and Hold the $<^{\bigcirc}$ > button with a sharp object (such as a toothpick); Quick Press once $<^{\text{RESET}}$ >, until the LCD shows "**RESET...**" Release the $<^{\bigcirc}$ > button, and after about 2 seconds to return to normal, the system settings are restored to the factory settings, All stored stations are erased.

INSTALLATION OF BATTERIES

Open the battery cover on the back of the radio and load one 18650 rechargeable battery correctly according to the polarity labeled in the battery compartment.

Notes:

1. Pay attention to the polarity of the battery, reverse polarity may damage the unit.

2. This unit does not come with 18650 batteries, please purchase their own positive protruding lithium batteries, a good battery can enhance the unit's playback time.



3. The first time the battery is installed, the clock needs to be adjusted. To change the batteries, try to change them before the LCD disappears; otherwise, the clock will be reset.

BATTERY LEVEL INDICATION

Description of the symbol display in the upper left corner

1." ": Battery fully charged

2." [Slightly low battery

3." Eattery power is low, please charge or change the battery.

4." [[] "flashing: the battery is dead, the radio will automatically power off, please charge it.

SMART CHARGING

This unit is charged by a Micro-USB port, and the charging voltage is 5V; please use a standard 5V charger.

When the charging cable is plugged into the charging port of the unit, the unit will automatically activate the charging circuit and stop when it is fully charged.

Note: During charging, tuning sensitivity may be affected and noise increased; it is recommended that the radio be turned off for charging.

FREQUENTLY ASKED QUESTIONS (FAQS)

ISSUE	POSSIBLE CAUSE	SOLUTION
	1.Low battery	1.Renewing a new battery or recharging (see page 23.24)
Unable to powerable	2.Buttons are locked	2.Press and Hold the lock button to unlock (see page 22).
	3.18650 battery not correctly installed	3.Proper installation of 18650 batteries (see page 23).
The radio died.	Unexpected interference causes the MCU to enter a dead state.	Perform a complete reset operation on the unit (see page 23).
	1.Low battery	1.Renew the battery or recharge it (see page 23. 24).
The radio turns off automatically while in use	2.Setting up the automatic	2.Reboot (see page 6)
	shutdown function	3.Canceling the automatic power-off function (see page 6)
Incorrect FM frequency range	The FM range doesn't match the local station.	Adjusting the FM frequency range (see page 19)
MW range and stepping are not correct	The MW range doesn't match the local stations.	Adjusting the MW stepping (see page 19)
		1.Change to manual station search or enter the station frequency directly. (See page 7.11.)
Automated search or ATS lock	1.The radio signal is too weak.	2.Adjust the antenna, rotate the fuselage direction, and operate Auto Search or ATS.
station inaccuracies.	2.Strong interference signals in the vicinity	3.Adjusting the automatic search threshold (see page 12)
		4.Avoid sources of interference, go to the window or outdoor open area without interference to receive the station.
Radio alarm activated. Alarm clock is radio noise.	1.There are no pre-stored stations for reception after a	1.Re-select the radio frequency of the alarm clock. (See page 21.)
	radio alarm.	2.Change alarm mode to beep alarm. (see page 21)
	2.Stations pre-stored for reception after a radio alarm	28

	are not broadcast.	
	1. A weak radio signal, not receiving R(B)DS data.	 Change the antenna position or move to a strong signal location for reception.
Cannot receive R(B)DS data. Receiving R(B)DS garbled	2. Radio without R(B)DS	 The radio station itself does not have R(B)DS data, please change to a radio station with R(B)DS data.
code.	3. FM bandwidth is too narrow	 To change the FM bandwidth, it is recommended to set it to BW AUTO or to widen the bandwidth (see page 18).
The reception clock has changed on the FM band.	Turn on the R(B)DS auto-calibration function	Stations with R(B)DS will automatically update the time, if you don't need this feature, you can turn it off.(see page 21).
Turning the volume knob gives you sound and then doesn't.	The squelch is on.	When the squelch is turned on, the radio will mute weak stations if signal the of the current station falls below the squelch threshold. Adjusting the volume knob will temporarily restore the sound, but it will be muted again after a short period. To disable mute, turn off the mute function. (see page 18)
Sometimes mute, sometimes not mute./mute button does not work when closing the radio.	The squelch is on.	When the squelch function is enabled, the station will mute when the signal is weak. However, if the squelch function is disabled, reception and squelch function will work normally. (see page 18).
R./B. ERR error occurs	Power supply failure/unit failure	 Some poor quality battery internal resistance, a small current can not meet the working current of the unit, replace the battery or battery fully charged and then use it. Reset to re-power up (see page 23)
		 If you can't solve the problem after the above attempts, please get in touch with the after-sales personnel to return to the factory for repair.
With power-on, the LCD screen will turn off automatically after 2 seconds. The LCD lights up again when you operate it.	The LCD OFF function is turned on.	Setting to "LCD ON" restores the LCD to the normally lit state (see page 17).
How to Switch LW/MW Telescopic Antenna Reception		(see page 18)
Telescopic antenna receives LW.MW.SW with lower than usual sensitivity	Check that the AMP antenna amplifier is turned off	Turning on the antenna amplifier (see page 18)
Indoor reception The LW/MW telescopic antenna receives more noise than the internal ferrite bar antenna.	Telescopic antenna for outdoor use, internal ferrite bar antenna for indoor reception	Indoor reception is recommended to use the internal ferrite bar antenna; outdoor reception is suitable for telescopic antenna reception (see page 18).
Can the reception of FMDX signal or FM weak signal be improved?		You can try the FM signal processing settings, normal listening is recommended to be set in the "DEFAULT" state (see page 13).
No LW band		
Input LW frequency display error	LW band closed	Switching on the LW band "LW ON" (see page 19)
Radio settings are scrambled		Reset radio parameters to factory settings (see page 19).
Poor sound on strong signal broadcasts	Bandwidth settings too narrow	Expand or adjust the bandwidth to "AUTO BW" (FM band). (see page 18)
FM has critical frequency interference	FM bandwidth is too wide	Narrow the FM bandwidth or adjust it to "AUTO BW". (see page 18)

The back of the radio may become warm when turned on	Receiver chip work heats	This unit adopts a high-performance car chip, the temperature belongs to the normal working range use!
Can you turn off the alert beep when you receive a station on ATS?	Turned on the button BEEP sound	This unit does not have a specific setting to toggle the beep when ATS receives a station. However, you can disable the beep by turning off the BEEP sound button (refer to page 18).
How do you restore normal stepping when the knob turns fast and the frequency changes quickly?	Knob frequency set to acceleration mode SPEED ON	Turning off the frequency acceleration mode restores the normal mode (see page 9).
Change of UTC time is not correct	Local time zone not set	You need to select the local time zone before setting the time (see page 20 21).
R(B)DS Display Error	Confirm whether the wrong mode is selected as RDS or RBDS mode	Only the United States is RBDS; all other countries are RDS; please choose the correct mode(see page 19).
Why is the backlight always on?	Turned on the backlight constant light function	Turning off the LCD backlight function (LIGHT OFF) can be canceled (see page 17).
There is little difference in reception when the external antenna is mounted on the LW/MW.	LW/MW Telescopic antenna setting not turned on	Switching to LW/MW retractable antenna reception function (see page 18)
FM headset reception without stereo	 Signal not strong enough FM radio stations without stereo sound 	 Only strong signals can be resolved stereo; When weak signals, relocate or connect external antenna. Stereo mode is not turned on.

PRECAUTIONS FOR USING BATTERIES

- 1. If the batteries have not been installed for a long time, the clock will stop running but will maintain the stored radio frequency. Reinstalling the battery requires setting the clock. This unit has an automatic shutdown protection function with insufficient battery voltage. When the battery is low, radio automatically powers off. "
 "
 "
 symbol flashes as reminder to replace or charge the 18650 battery.
- **2.** Remove battery when not used for extended periods to prevent leakage and component corrosion.

ROUTINE MAINTENANCE

- 1. Avoid intense collision or dropping the unit.
- 2. Do not use corrosive liquid to clean the unit.
- 3. Do not use the unit in high temperature and moisture environments.
- 4. Strictly avoid charging non-rechargeable lithium batteries. Remove battery when radio is not in use for extended periods.
- 5. Do not change the unit's internal parts by yourself.

MAIN PERFORMANCE INDICATORS

Frequency Range/Tuning Step

FM: 64-108MHz (suitable for Russia/Eastern Europe)

76-108 MHz (suitable for Japan)

87-108MHz (suitable for Europe, Oceania, Africa, Asia)

87.5-108 MHz (suitable for China, Americas)

(Tuning step is 200KHZ/100 KHZ/50 KHZ/10KHZ)

SW:1711-2999kHz (Tuning step is 1kHz/5kHz)

MW: 522-1620kHz (Tuning step is 1kHz/9kHz)

520-1710kHz (Tuning step is 1kHz/10kHz)

LW:144-519kH (Tuning step is 1kHz3kHz)

Sensitivity:

Retractable Antenna Reception:

- $FM(S/N=30dB) \leq 0.5uv$
- SW (S/N=20dB) $\leq 10uv$
- LW (S/N=20dB) \leq 10uv
- MW(S/N=20dB) ≤10uv

Internal ferrite bar antenna Reception:

LW (S/N=20dB) $\leq 2mV/m$

 $MW(S/N=20dB) \leq 1mV/m$

Selectivity:

- $FM \ge 60 dB (\pm 150 kHz)$
- $SW \ge 60dB$ (BW=3kHz, $\pm 5kHz$)
- $LW \ge 60 dB$ (BW=3kHz, $\pm 9 kHz$)
- $MW \ge 60 dB \quad (BW=3kHz_{\times} \pm 9kHz)$

S/N Ratio:

 $FM \ge 60dB$

SW ≥ 60dB

 $\mathsf{LW} \geq 60\mathsf{dB}$

 $\mathsf{MW} \geq 60\mathsf{dB}$

FM Stereo Crosstalk: ≥40dB

Output Power: ≥ 1W (at 10% harmonic distortion)

Quiescent Current: < 190 mA

Shutdown Current: < 150uA

Speaker: 4Ω 3W

Headphone Input: 3.5mm / 32Ω

Power Supply: 3.7V (18650 Li-ion battery x 1) or external DC 5V

Charger / Power:5V/500MA, micro USB socket

Dimensions: 128(W)x75.5(H)x38(D)mm

Weight (excl. battery): 200g

SR-286 Quick Start Guide

FM STEREO / LW / MW / SW High-Performance Digital Receiver

Power on/sleep timer/Turn off the alarm clock

and wakes it up again after 5 minutes.(see page 26)

radio sensitivity/signal-to-noise ratio.(see page 21).

volume, (see page 21)

wer on: Quick press (see page 4)

Bandwidth Selection/Alarm Timer Setting/Alarm Radio Setup/FM Stereo/Mono Setting Bandwidth Selection: Power on the radio and quick press to select the bandwidth, or turn the knob to select the bandwidth. (see page 19).

Alarm Timer Setting: Power of the radio, press and hold (2 s) to enter the alarm setting; rotate the knob to adjust the alarm, quick press the <PAGE> button in sequence to switch the alarm parameter that needs to be adjusted (Alarm Hour/ Minutes/Alarm duration. (Finish alarm setting). (see page 25).

Alarm Radio Setup: power on the radio, press and hold (2s) to set the radio frequency of the alarm timer. (see page 26).

FM Stereo/Mono setup: Power on the radio to switch to FM band, plug the earbuds, then press and hold (2s) to select the FM stereo or FM mono mode. (see page 19)

Radio Setting/Meter Band Switching/Frequency Fast Tuning/Auto search in meter band

Radio Setting: Power off the radio power, press and hold (2 s) to enter the radio setting; rotate the knob to switch the option; cycle quick press to set the parameter of the current aption; quick press the <PAGE> button; quick quick set the MW stepping/FM stepping/ RS/SRBDS/FM fecuency ranoe/FM de-emphasis 50us/70us). (see page 22).

Meter band, (see page 10).

Frequency Fast Tuning: Power on the radio and switch to FM/LW/MW band; quick press to tune frequency. (see page 10).

Auto search in meter band: Power on the radio and switch to SW band, press and hold(2s) to enter the current auto search in meter band(see page 10).

R(B)DS information switching/Meter band switching/In-meter band ATS/Frequency fast tuning/Button BEEP sound switching

R(B)DS information switching: Power on the radio and switch to FM band, turn on RDS(see <RADIO SETTTING- setting (see page 22), quick press to switch RDS information. (see page 11)

Meter band switching: Power on the radio and switch to SW band, quick press to meter band downward switching (see page 10)

In-meter band ATS: Power on the radio and switch to SW band, press and hold(2S) to enter current band ATS mode (see page 10)

Frequency fast tuning: Power on the radio and switch to FM/LW/MW band, quick press to fast-tune the frequency..(see page 10).

Button BEEP sound switching: Power off the radio, press and hold(2S) to button BEEP off (BEEP OFF)/on (BEEP ON) .(see page 20)

World Time Zone Selection/Alarm Mode Setting/Store Radio Station/Tone Setting

World time zone selection: Power off the radio, press and hold (2s) to enter the time zone selection, quick press to switch the time zone; you can also tum the knob to switch the time zone, quick press <PAGE> button to exit. (see page 23)

Alarm Mode Setting:Power off the radio and Cyclic quick press to switch alarm beep/alarm radio/off alarm clock. (see page 26)

Stored radio stations: Detailed (see page13~15)

Tone setting: Power on the radio, press and hold (2s) to switch the tone (MUSIC/VOICE). (see page 18)

Station Delete/Backlight setting/Backlight on or off

Station Delete: Detailed operation .(see page 16) Backlight Setting: Power off the radio, press and hold (2s) to switch the Backlight to LIGHT 0N or LIGHT OFF. (see page 18).

Backlight on or off: Quick presss to switch the Backlight on/off. (see page 18)

Rename Page Editor/Mute Switch

Rename Page Editor: Detailed. (see page 17) MUTE switch: Power on the radio, then quick press to switch MUTE ON /MUTE OFF. (see page 17) Siege time: Press and hold (2) is power on the racids, turn the knowled to set the skep time '1-90' minutes, II' you select '2N' to turn off the skep time (see page 4). Turn off the salar mode: Cuick press the salarm off button when the tarm makes up. (see page 25). Station Local Second Information Orbitaly Mode button: Press and hold (2), is an page 26). Mode button: Press and hold (2), is an page 26).

ooze button: When the alarm wakes up, a quick press turns it off

ormation display: Cyclic quick press to display clock/alarm/time/

Power on the radio and turn the volume knob to adjust the sound

BEFLEY

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PROFESSION INTERNET SENSITIVITY MUCTI-

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(FM (0) (AM)

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AUTO

FM Band Switching/FM Band ATS/Confirmation of FM Frequency Input FM band switching: Power on the radio, then quick press to switch to FM band. (see page 5).

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Fill band ATS: Power on the radio and switch to SW band, press and hold (2s) to enter ATS to search the stored stations automatically. (see page 7). Confirmation of FIM Frequency Input: After inputting the corresponding FIM

Contirmation of FM Frequency input : After inputting the corresponding FM frequency by numeric keys, quick press to confirm the corresponding FM frequency. (see page 9).

LW. MW.SW band switching/LW .MW.SW band ATS/Confirmation of LW.MW.SW frequency input

LW.MW.SW band switching: Power on the radio, then quick press to switch to LW.MW.SW band. (see page 5)

LWAW, SW ATS: Power on the radio and switch to SW band, press and hold (2s) to enter the ATS corresponding to the current band (LW.MW.SW) to automatically search for the stored station. (see page 7). (LW band can be turned on or off, see -RADIO SETTTING's setting, see page 22.) Confirmation of LW.MW.SW frequency input: After inputting the corresponding

Confirmation of LW.MW.SW frequency input: After inputting the corresponding LW.MW.SW frequency by numeric keys, quick press this button to confirm the corresponding LW.MW.SW frequency. (see page 9) Multi-function Knob/Step Setting/Squelch Setting/Fast Adjustment Setting Multi-function Knob: Used to adjust the time, adjust the frequency, adjust the memory address adjust the benchuldth adjust the squelch noise

address, adjust the bandwidth, adjust the squelch noise. Step setting: Power on the radio and quick press to the left, set the step (AUTO.FAST.SLOW.STOP).(see page 8)

Squelch setting: Power on the radio, press and hold (2s) to the right, enter the squelch setting, rotate the knob can be adjusted level, quick press again to confirm. (see page 19) Fast Adjustment Setting: Power off the radio, press and hold (2s) to switch the frequency on (SPEED ON) off(SPEED OFF). (see page 8)

Memory. Frequency switching / Operation confirmation / Clock setting / Auto search tuning threshold setting

Memory. Frequency switching: Power on the radio and quick press to switch between "MEMO"/"FREQ" mode. (see page 5).

Operation confirmation: Other settings are completed, quick press to exit the operation. **Clock setting:** power off the radio, press and hold (2s) to enter the time setting, rotate the knob to adjust the time parameters, quick press to switch the alarm clock parameters need to be adjusted (time hours, minutes, RDS auto-alignment), RDS automatic time switch, Complete the clock setting), see nage 24).

Frequency Up/Page Up/Memory Mode Setting/Auto Search Station/Stored station browsing

Frequency Up: Power on the radio and switch to "FREQ" mode; quick press to frequency up. (see page 6)

Page up: Power on the radio and switch to "MEMO" mode, quick press to page up. (see page 13).

MEMORY Mode Setting: Power off the radio, press and hold (2s) to switch ATS memory mode skip mode(ATS_JUMP)/voerwrite mode(ATS-COVER).(see page 7)

Auto search for radio station: Power on the radio and switch to "FREQ" mode, press and hold (2s) to auto search station. (see page 6). Stored station browsing: Power on the radio and switch to "MEMO" mode. Press and hold

(2s) to browse the stored stations automatically. (see page 15).

Frequency down/Page down/Auto search mode setting/Auto search station/Stored station browsing

Frequency down: Power on the radio and switch to "FREQ" mode, quick press to decrease frequency. (see page 6).

Page down: Power on the radio and switch to "MEMO" mode, quick press to page down .(see page 13)

Auto search mode setting: Power off the radio, press and hold (2s) to switch to auto radio mode (STOP), stop mode/delay auto search mode (DELAY-XX), delay mode; rotate the knob to set the delay time, quick press <PACE> to confirm the exit (see page 6)

Auto search for radio station: Power on the radio and switch to "FREQ" mode, press and hold (2s) to auto search for radio station .(see page 6).

Stored station browsing: Power on the radio and switch to "MEMO" mode, Press and hold (2s) to browse the stored stations automatically. (see page 15).

utton combination

LCD Auto OFF after power on/temporary LCD OFF after power on.

LCD turns off automatically after power on: Power off the radio, press and hold (2s) <1> and <3> buttons simultaneously to switch LCD off mode (LCD OFF)/on mode (LCD ON). (see page 18)

Turn on LCD off temporarily: Power on the radio and quick press the <1> and <3> buttons simultaneously to switch LCD on/off .(see page 18).

Antenna attenuation setting: Power on the radio and press and hold (2s) <PAGE> and <5> buttons simultaneously to enter the antenna attenuation level setting, select the knob adjustment level, ouck press the <PAGE> button to confirm and exit. (see page 21).

AM Antenna AMP Switching: Power on the radio and switch to AM band, press and hold (2s) <PAGE- and <0> buttons simultaneously to switch the antenna AMP switch (LW/MW need to switch external antenna mode to switch). (see page 20).

FM signal processing: Power on the radio and switch to FM band, quick press the <PAGE> and <FM> buttons simultaneously to FM signal processing. (see page 12)

R(B)DS switching: Power on the radio and switch to SW band, press and hold (2s) <PAGE> and <RDS> buttons simultaneously to switch R(B)DS on (RDS ON)/off (RDS OFF). (see page 11)

All antenna switching: Power on the rado and switch to LW or MW band, press and hold (2s) <PAGE> and <AM> buttons simultaneously to switch the Telescopic Antenna Antenna(ANT-EXT)Built-in Magnetic Stick Antenna (ANT-INT) (see page 20). Auto search threshold setting: Power on the radio, press and hold (2s) <PAGE> and <COWN> buttons simultaneously to switch auto search threshold (see page 11)



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