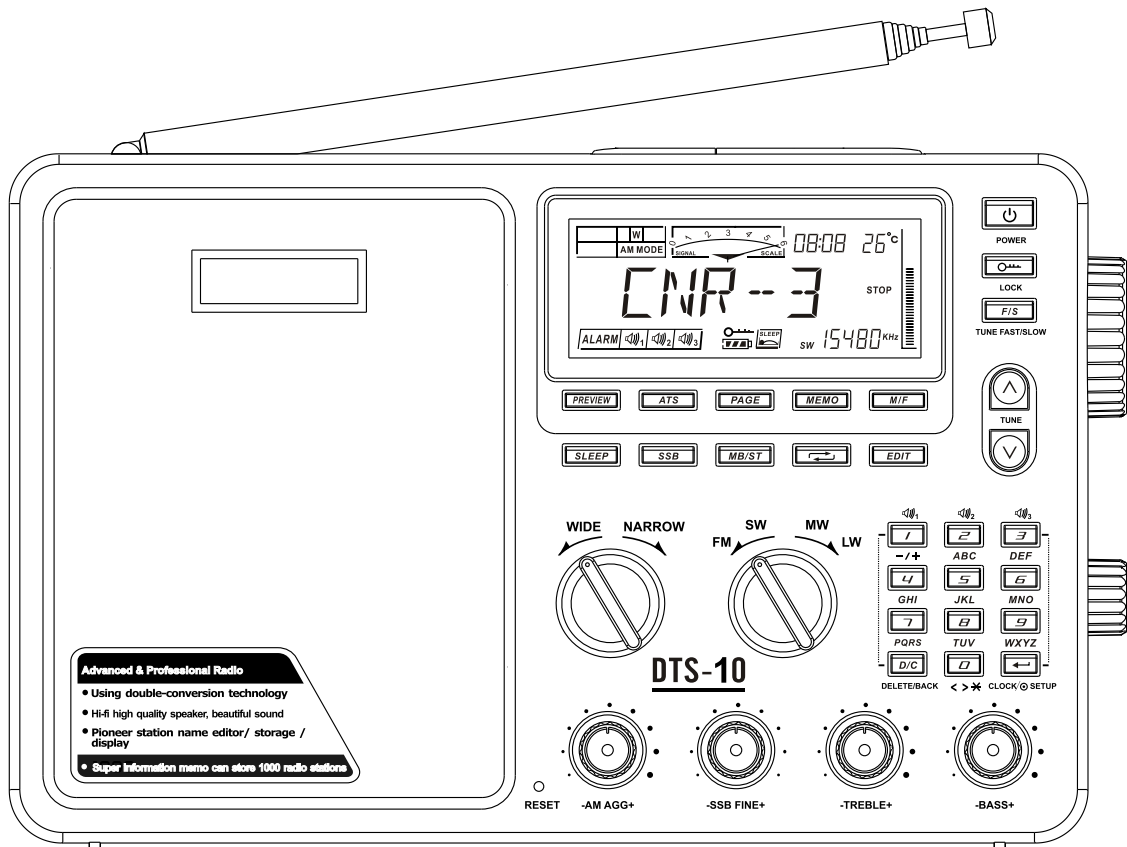


# OPERATOR'S MANUAL DTS-10



## WORLD BAND RADIO



We specialize in production and sales of fm transmitter and the fm transmitter accessories. We have been exporting FM transmitter for 5 years. It has been sold very well. So I know it and its market. It has very high performance and high stability. We have clients all over the world, not only the resellers but also the consumers.

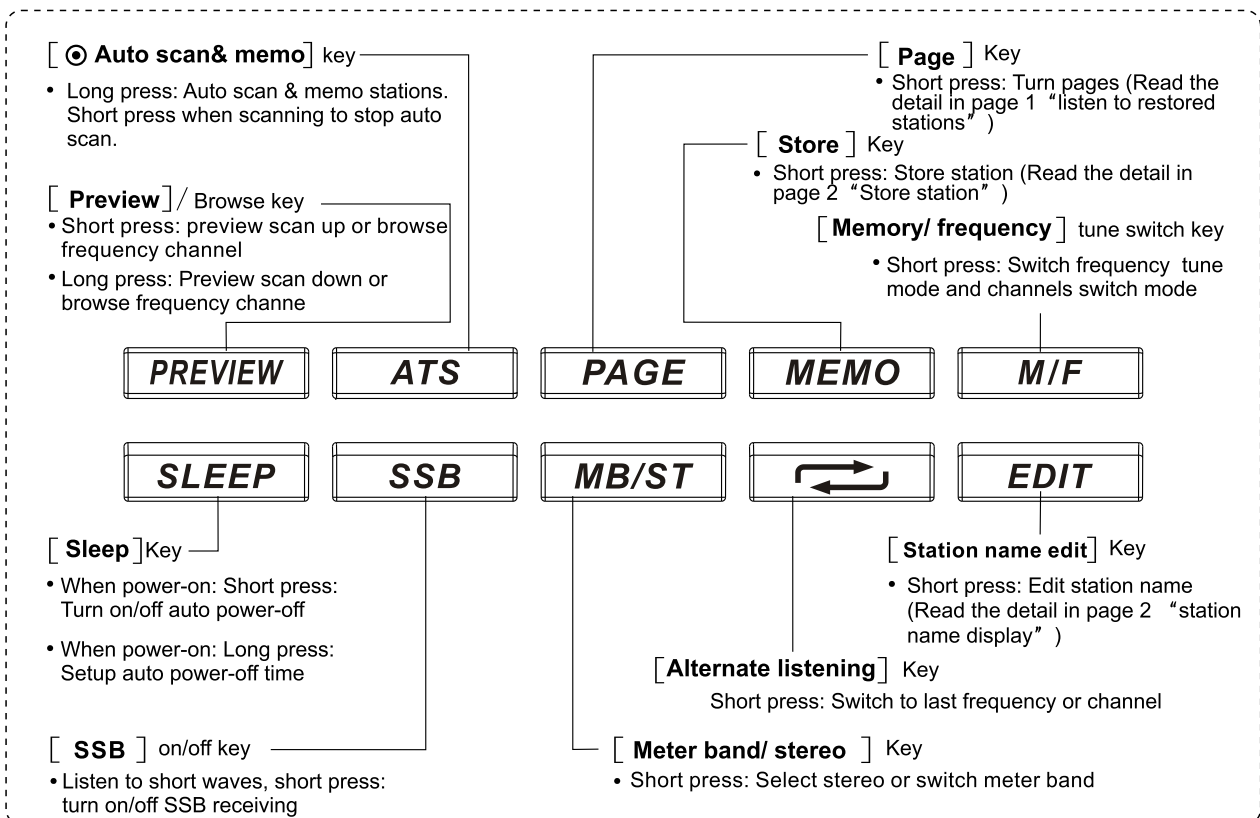
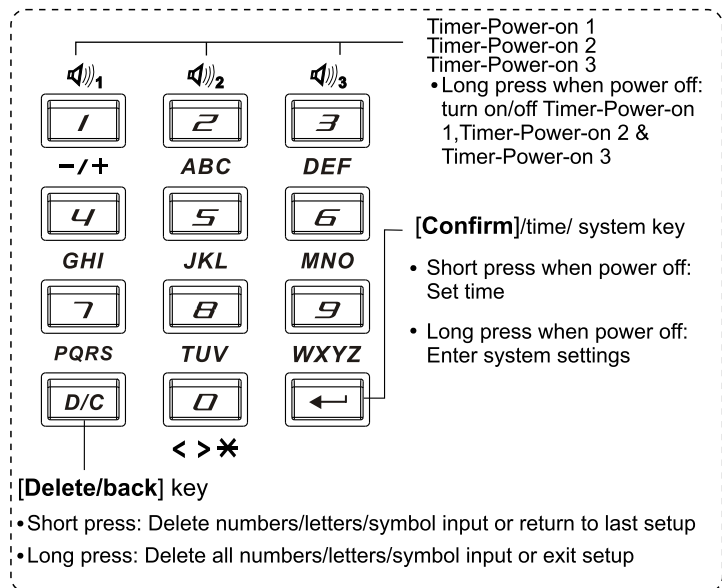
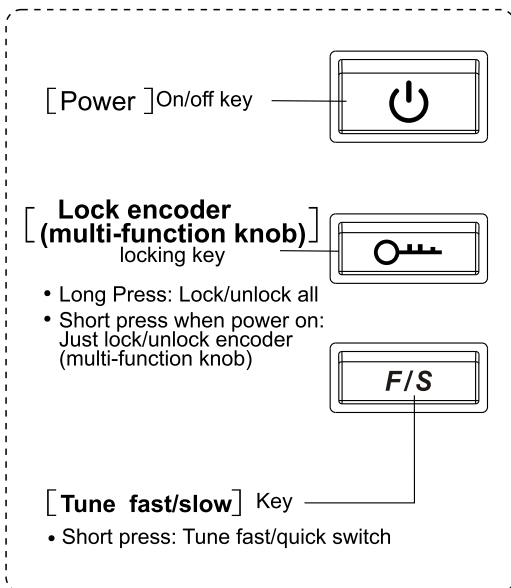
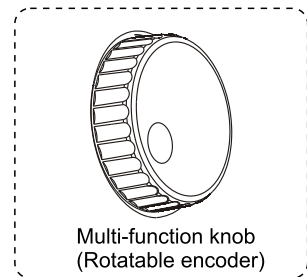
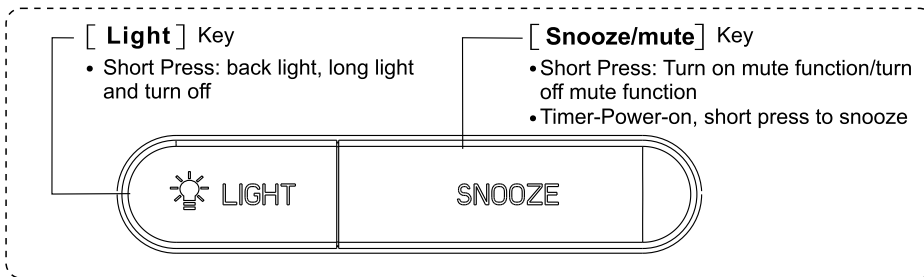
Our product include: fm transmitters, antennas, power supplies and PCB and radio and such kind of fm transmitter accessories.

Address: No. 1502 Room HuiLan Building No. 273 Huanpu Road Guangzhou China Zip: 510620

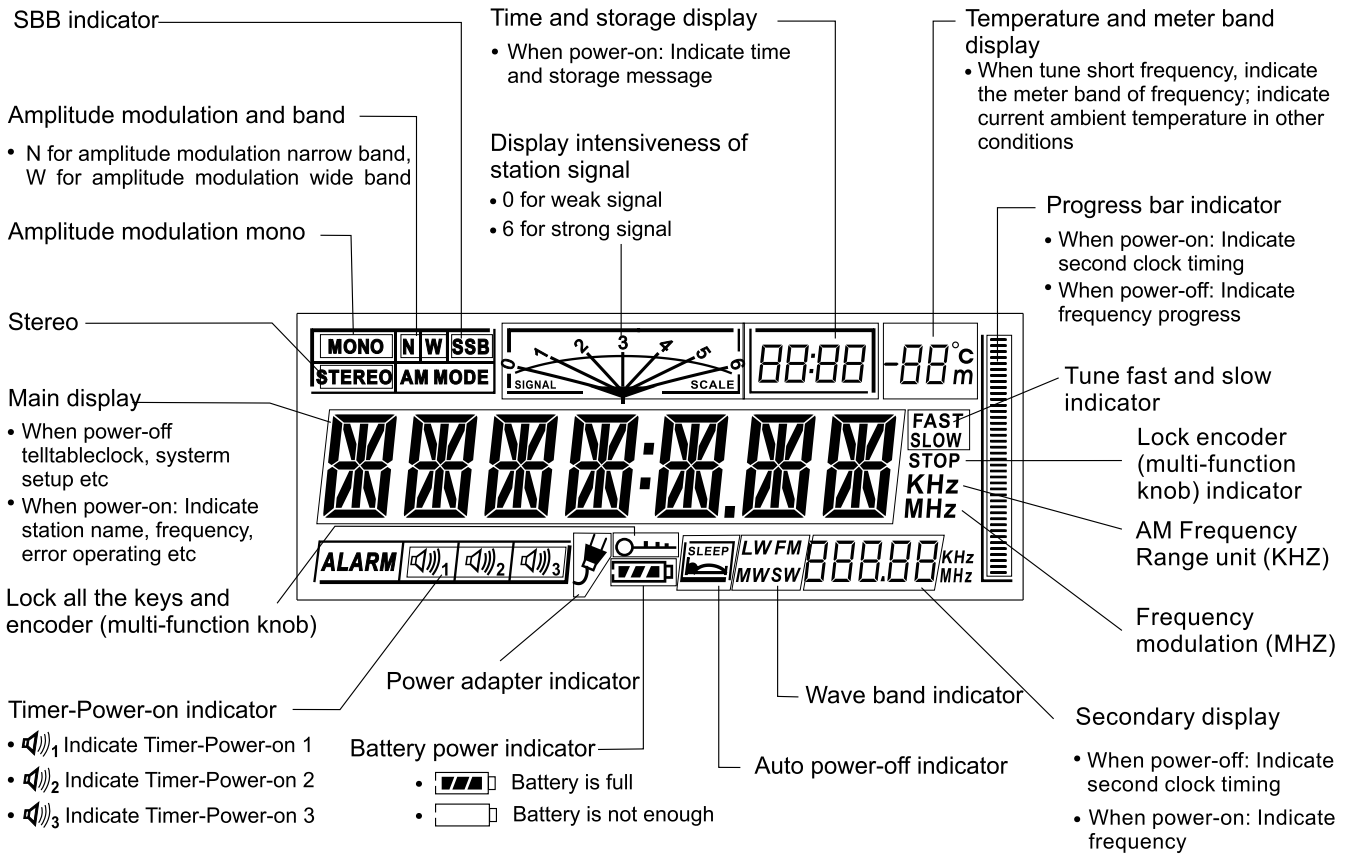
Contact: Rita Cai  
Tel: 86-020-87597795 Fax: 86-020-87588285  
Cellphone: 86-13580359764  
E-mail: rita@cantonmade.com  
MSN: rita\_cai\_jxpx@hotmail.com  
Skype: rita.cai87

# DTS-10 Simple operation guide

## Main key operation brief introduction



## Notes to symbols displayed by LCD



## Content displayed by LCD in Chinese and English

FAST	SLOW	ALARM	MIN	FULL	LIGHTON	ERROR
MONO	STEREO	AM MODE	N	W	SSB	SIGNAL SCALE

## Directory

### Basic operation

Page 1	Install battery
	Power on/off
	Tune
	Frequency/channel input
Page 2	Tone tuning
	Mute
	Improve listening effect
	Automatic scan
	Automatic scan
	Store station
	Station name display

Page 3	Auto scan
	Auto Radio browsing
	Alternate listening
	Backlight
	Audio input / output
Page 4	Auto power-off
	Lock
	Tone clock
Page 5	Timer-Power-off
Page 6	Reset

### Advanced Skills

Page 6	Auto-switching power supply
	Intelligent fast input
Page 7	SSB receiver
	Further improve listening effect
Page 8	System setup
Page 9	Technical specifications of the radio
Page 10	"Signal conditions and improvement measures table"

# Basic operation

## 1. Install battery

### ● Use batter

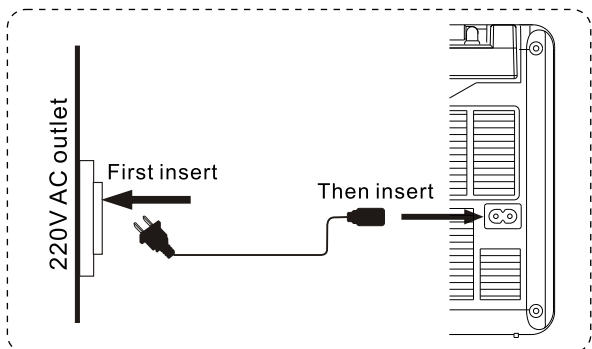
According to label directions inside the battery jar, insert 4 purchase A batteries

Check battery power indicator( if listen, according to the Indicator result after power-on)

- Full power
- High power
- Lower power
- Power is not enough If the power can not be on, please replace the battery

### ● Use AC power

When connected successfully, LCD displays



### ● With an external power adapter (not included)

According to the sequence displayed above, the LCD will display when it is connected successfully.

Note: Be sure to use the External Positive and Internal negative 6V power adapter, otherwise it might cause damage. If you need please contact us for purchasing.

NOTE: When not in use for a long time, remove the battery and disconnect all power supply, so as to avoid damage to the radio.

## 2. Turn on/off

Turn off by pressing and turn on by repressing

Note: If there is any anomaly when power-on after reinstalling battery please restore factory settings (read more detail in page 8).

## 3. Tune

### ● Tune frequency

Rotating band switch knob, select the wave band you want to listen to.

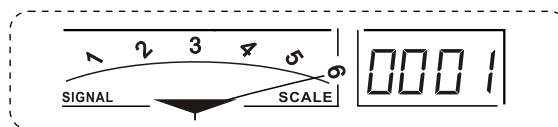
Press , or rotating encoder (multi-function knob) to switch frequency to tune.

Note: Press to tune speed when tuning frequency following the below table.

Wave band	Speed	
	FAST	SLOW
FM	0.05MHz	0.01MHz
SW	5 KHz	1 KHz
MW	<b>9KHz or 10KHz</b>	1 KHz
LW	9KHz	1 KHz

### ● Listen to restored station

Press , the radio will switch to channel switch status and play the restored station you listened to last time and display the page and channel which stored the station(as below, the former two-digit number indicates page serial number and the latter two-digit number indicates channel serial number):



Press , or rotating encoder(multi-function knob) to listen to other restored radio stations.

To listen to restored radio stations in other pages, please switch the page first.

Press ,LCD flash displays current page number, press , or rotating encoder(multi-function knob) or directly press the corresponding number key to select the page number and then press or .

Note: ① Press to transform switch channel Speed; ② Repress to retune frequency.

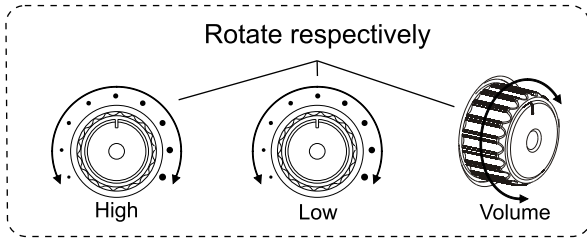
## 4. Frequency / channel input

● In frequency tuning mode, press the corresponding number keys to enter and listen to the frequency you want.

● In channel switch mode, press the corresponding number keys to enter and listen to the channel you want.

Note: ① Press to delete error input and press and hold on to exit; ② If LCD display ERROR, it indicates it is beyond input range.

## 5. Tuning



Note: The volume will be higher and the sound quality will be better if AC power is used.

## 6. Snooze/mute

Press **SNOOZE** to select snooze or exit snooze.

Note: ① It will be off automatically if there is no operation after snooze. ② The snooze function is invalid when audio inputs.

## 7. Improve listening effect

Read detail in page 10 "signal conditions and improvement measures table."

Note: ① Press **MB/ST** to activate stereo or exit. LCD displays STEREO when stereo is activated and MONO when power-off --- if signal is not strong enough, the stereo is invalid. ② It is impossible to hear the stereo sound effect with the built-in loudspeaker

## 8. Auto-scan station

### ● Auto scan

Press **▲** or **▼** and hold on until the frequency switches. It will play and stop scan if the signal frequency is strong enough. In case of a strong signal frequency, the radio will play and stop scan.

### ● Auto-preview strong signal frequency

In frequency tuning mode, press **PREVIEW** or hold on **PREVIEW** until the frequency switches. It will pause scan and play for 4 seconds. Press any key to go on listening.

Note: In case of interference, the frequency scanned may not be radio transmitters. Please refer to page 10 "signal conditions and improvement measures table" for transaction.

## 9. Store station

Press **MEMO**, the screen flash displays the default channel number (the default is the first one empty channel in the current page, the same below), press **▲**, **▼** or rotating encoder (multi-function knob) or directly press corresponding number key

to select the channel number and then press **←** or **MEMO**. If press **←** or **MEMO** it will be restored to default channel, if you want to store in other pages, please switch the page first.

Note: ① If LCD displays P-FULL it indicates the current page is full. If LCD displays CH-FULL the current frequency has been stored. ② Press **MEMO** and hold on until channel number disappears or does not flash and then you can directly store the channel to the default channel.

## 10. Delete stored stations

### ● Delete a radio station

Select the channel you want to delete, press **D/C** and hold on until LCD displays DEL and the channel number flashes and then press **←** to delete. Press **D/C** to exit or it will exit in 8 seconds.

### ● Delete channels in one page

Select the page you want to delete, press **D/C** and hold on until LCD displays DEL and the page number flashes and then press **←** to delete. Press **D/C** to exit or it will exit in 8 seconds.

## 11. Station name display

### ● Store station name

Edit station name: Press **EDIT**, LCD flash displays cursor symbol and store the station name you want according to the following table. (Limited to 7 characters):

Operating	Results	Remarks
Press the number keys or continuously press the same number key	Enter the characters you want	If you need to use the same digital key to edit the next character, please press <b>←</b> .
Press <b>←</b>	Enter the next character position or confirm completion of editing.	A single blank space can be entered using this function.
Press and hold on <b>←</b>	Ignore the follow-up character editor, enter the next step.	Blank spaces can be entered using this function.
Press <b>D/C</b>	Delete entered characters	
Press and hold on <b>D/C</b>	Exit	
Press <b>▲</b> , <b>▼</b> or rotating encoder (multi-function knob)	Select the character position	

Take station name edition NR-1 as an example:

Press **EDIT**, the first character cursor flashes;

Press **←**, the first character cursor flashes;

Press **2**, continuously three times, the second character position flash displays letter C;

Press **6** continuously twice, letter C is confirmed and the third character flash displays letter N;

Press **7** continuously three times, letter N is confirmed and the fourth character flash displays letter R;

Press **/**, letter R is confirmed and the fifth character flash displays **---**;

Short press **←**, **---** is confirmed and the sixth character flash displays, press **/** continuously four times, the sixth character flash displays;

Press **←** character I is confirmed and seventh character flashes;

Press **←**, complete editing, the screen flash displays the default channel number, at this time store the station in the way as mentioned in page 2. If this channel is selected later, it also can display the station name stored.

## Revise station name

In channel switch mode, select the station name you want to revise and complete the editing.

## 11. Auto scan and store

Press **ATS** and hold on until the frequency is switched, it begins to automatically scan stronger signal frequency, and automatically store to an empty channel in current page. It will automatically stop scan when the current page is full or when it has completed all frequency scanned of current wave band.

Notes: ① Press **ATS** to stop ongoing auto-scan; ② You had better press **PREVIEW** to preview strong signal frequency to check if there is any interference or that interfering signals may be stored.

## 12. Automatic station browse

In channel switch mode, press **PREVIEW** or hold on until the channel number is switched it begins to automatically scan restored station in current page.

When strong radio signal is scanned it will pause and play. If you want to continue to listen, press any key immediately or that it will continue to scan after playing for 4 seconds.

## 13. Alternate listening

Press **↔** repeatedly current frequency and the last frequency you listened to could be switched. You can compare receiving effect in the same station of different frequencies or monitor the content of radio broadcasts to avoid advertising.

## 14. Backlight

### ● Hand light

Press **LIGHT** backlight will be long light or off.

### ● Auto delayed Lighting

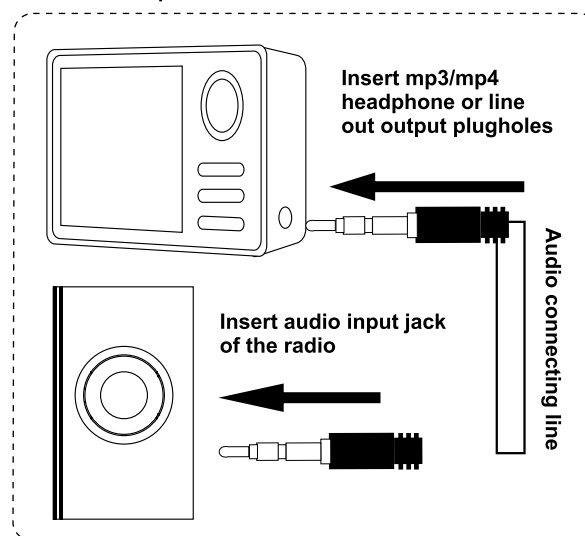
In auto light mode, press any key or rotating encoder (multi-function knob) expect for **LIGHT** the backlight will be on and last for about 10 seconds.

Note: Rotating encoder(multi-function knob) can not activate backlight without other operation when power-off.

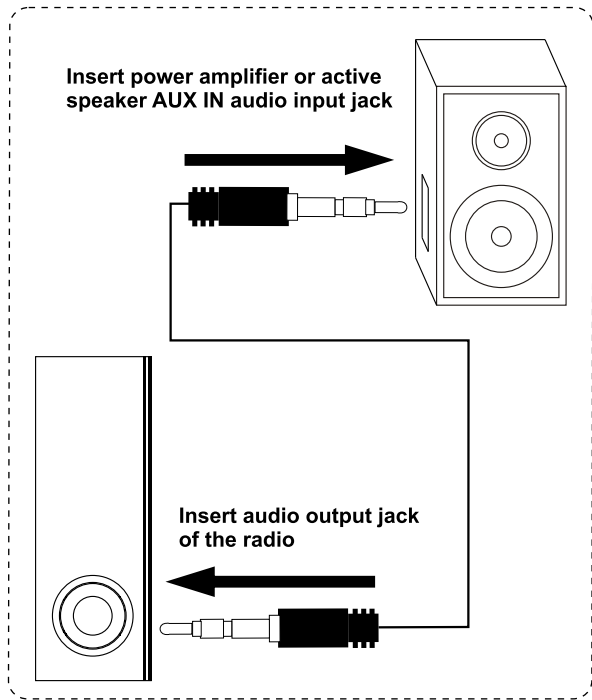
Note: ① Read detail in page 8 for light mode; ② In auto light mode and long light, if there is no operation when power-off, backlight will be off in 10 seconds.

## 15. Audio input / output

### ● Audio input



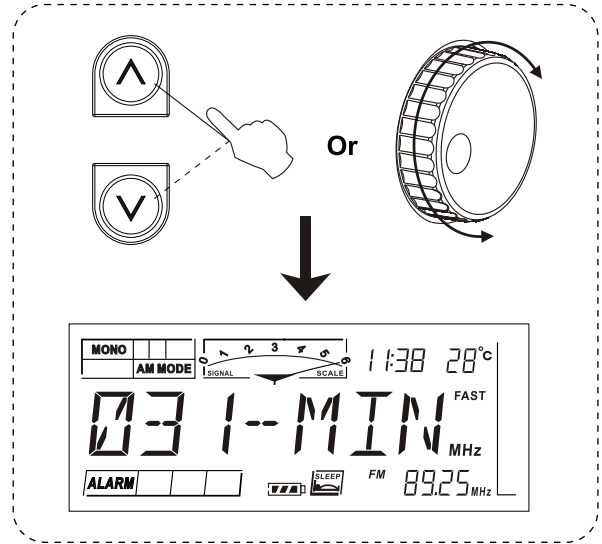
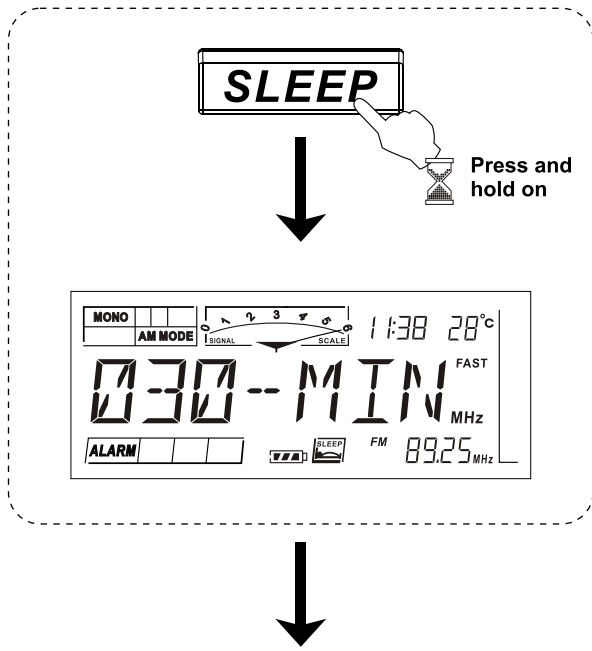
● Audio Output



Note: Current impact noise, tweet noise and other operation noise may be heard when audio outputs.

**16. Auto power-off**

Press **SLEEP** to activate or exit auto power-off. When auto power-off is activated LCD displays **SLEEP**, you can also set time for power-off (as below) it will be automatically power-off in 31 minutes.



**17. Lock**

● Only lock rotating encoder (multi-function knob)

When power-on press and hold on until LCD displays STOP and press again to exit.

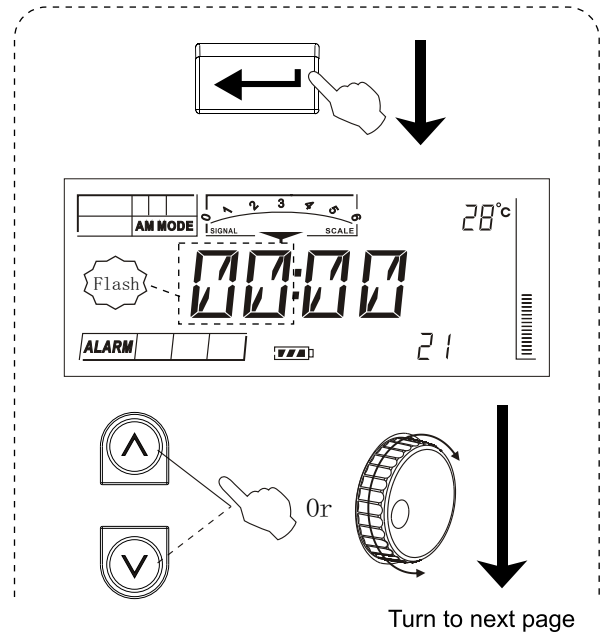
● Lock all

Press to lock or unlock. The LCD will display when in lock status.

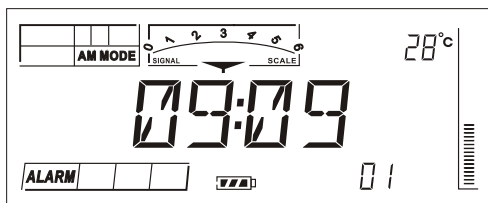
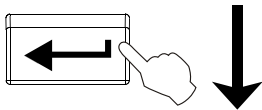
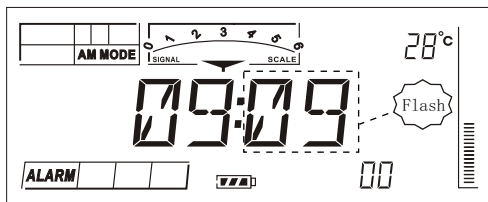
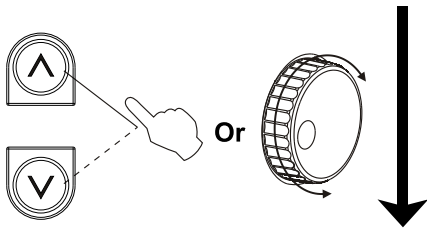
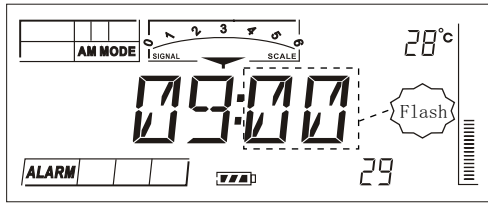
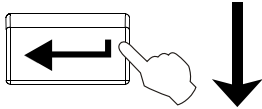
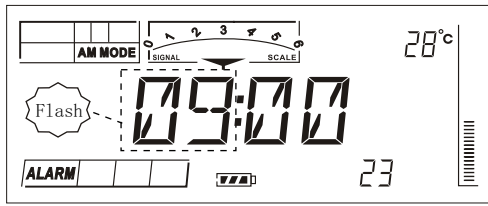
Note: Press to turn on when in lock all status.

**18. Adjusting time**

Take setting to 9:09 as an example. First, turn off and operate as follows.



Continue



Note: ① Press **D/C** to return to last setup, press and hold on to exit; ② If necessary, please **D/C** setup your time zone first.

## 19. Timer-Power-on

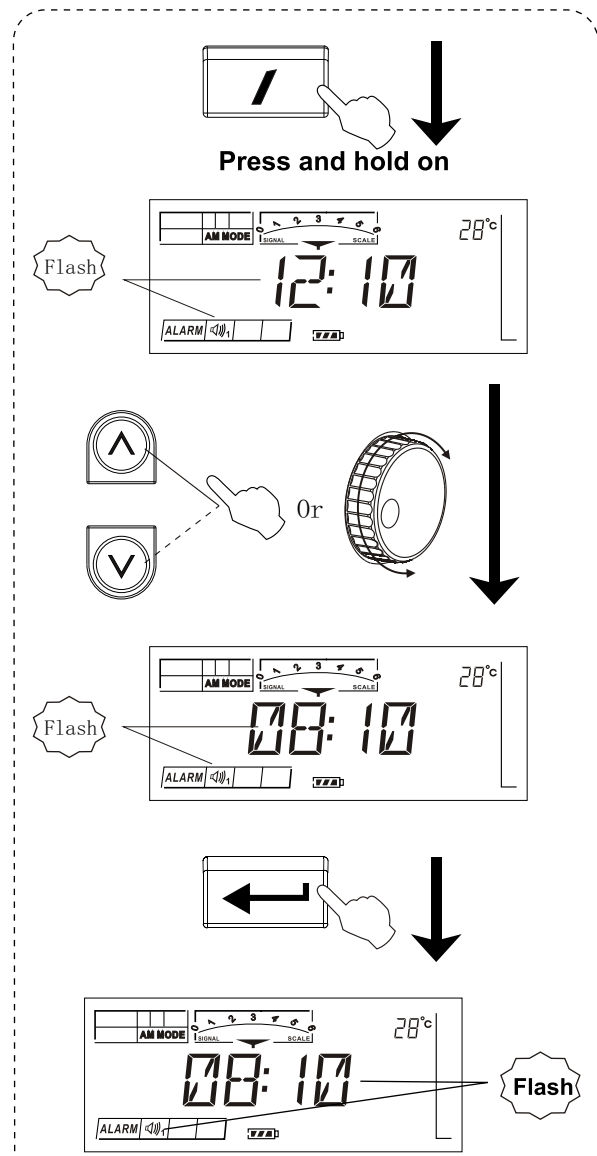
### ● Timer-Power-on/off

When power off, press **1**、**2**、**3** and hold on until LCD displays to activate Timer-Power-on 1,2 and 3 function; Repress **1**、**2**、**3** and hold on until disappears to exit.

Note: Timer-Power-off is only valid when power-off.

### ● Timer-Power-on setup

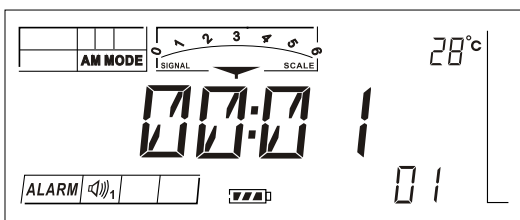
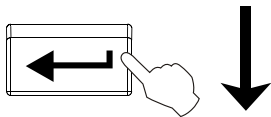
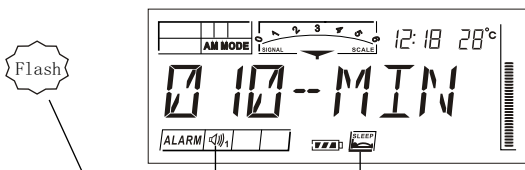
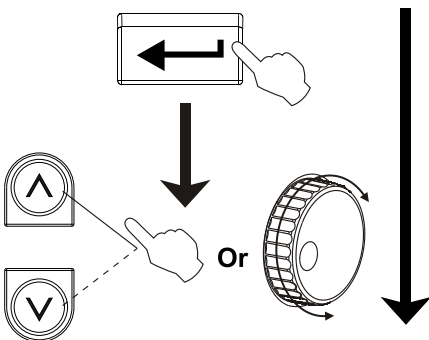
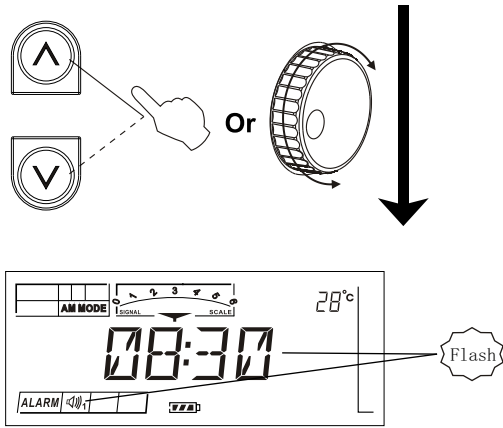
For example: After power-off, setup the Timer-Power-on 1 to 8:30. It automatically power-off after 10 minutes when power-on (as below)



Turn to next page



Continue



Note: Setup is valid after adjusting

## 20. Reset

If there is non-response, messy code, reset with a small stick inserted into reset hole.

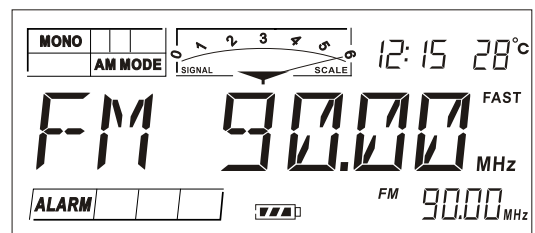
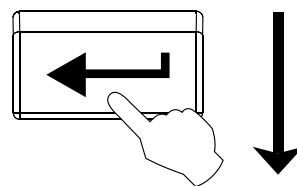
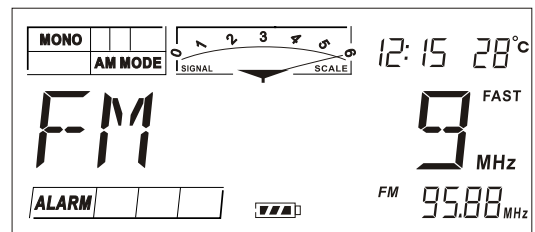
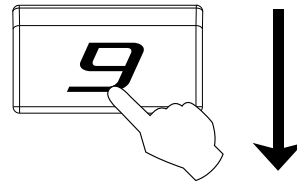
## Advanced Skills

### 21. Auto-switching power supply

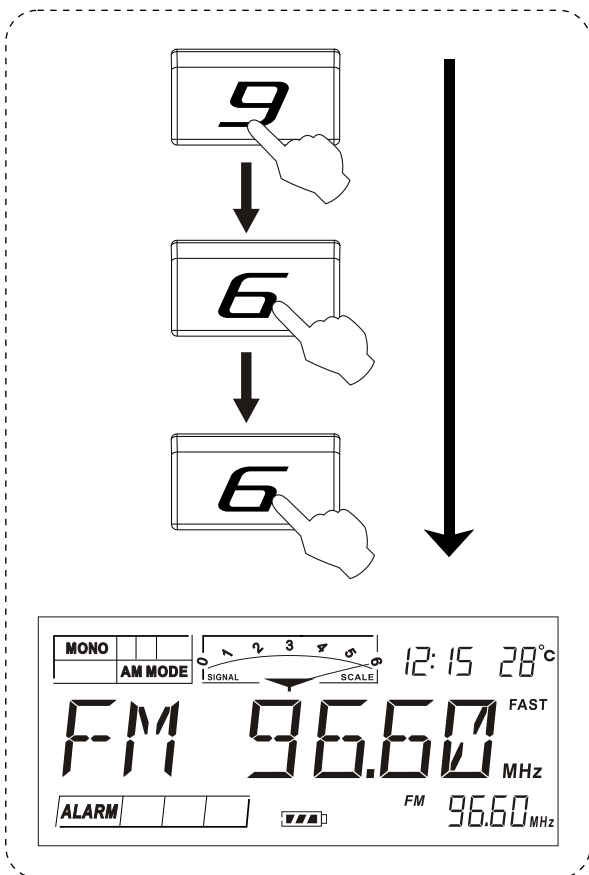
- When using other power supply, it will automatically cut off battery-power. It is impossible to power-on or there is no sound if the sequence of connection is wrong, the connection is off or the power is cut. If so, remove other power supply and connect according to correct order.
- If you want to have radio automatically switched to battery-powered, make sure to remove other power supply.

### 22. Intelligent fast input

- Fuzzy input (as below):



- Auto- back adding zero (as below):



- Auto- front adding zero

Enter page / channel number or switch channels, press and hold down the number keys 0-9 respectively to direct input or switch to 00-09.

## 22. SSB receiving

Switch to short-wave, press **SSB** until LCD displays SSB, select narrow band, tune SSB frequency and then adjust SSB fine-tuning knob until getting the best sound effect. Press **SSB** again to exit SSB receiving.

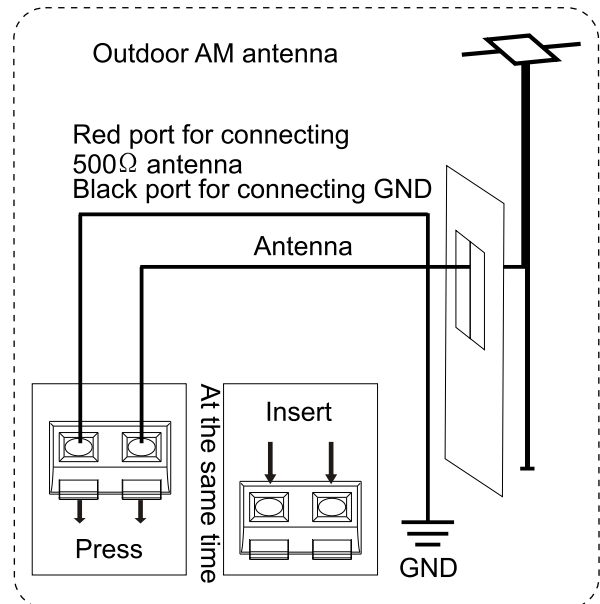
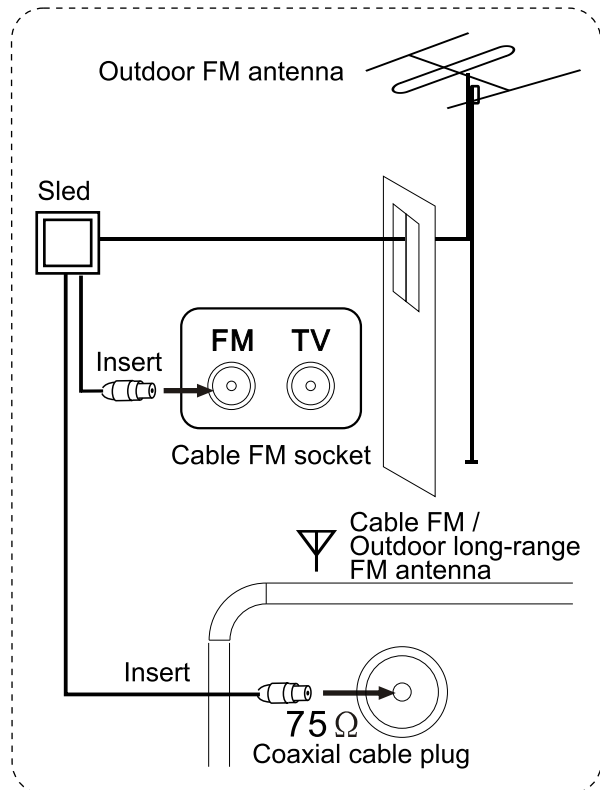
## 24. Further improve listening effect

- Improve listening environment

If indoors, try to close or far away from air conditioning, fluorescent lights, and other electrical appliances, keep as close as possible to the balcony, window; If outdoors, please try to avoid the signal transmitter or car launch, the electric motors and any signal transmitters.

- Use an external antenna

Turn the external antenna switch to NO position and connect as follows.









- Audio input




Please connect audio output of audio setting if possible and if headphone output is connected you had better turn off the sound effect and turn volume down.

## 25. System setup

When power-off, setup as follows:

Item	Optional setting values and their meanings	Default
UTC	Select the world's major time zones, country or region of each time zone	BEIJING
PAGE	P00-9: p00, p01, p02..... P09 a total of 10 pages to memo the 1000 groups of radio station information, each page is available to memo 100 channels, each page can memo up to 100 groups of radio information;	P00 24
	P00-24: Sub-P00, P01, P02..... P24 a total of 25 pages to memo 1000 groups of radio station information, each page is available to memo 40 channels, each page can memo up to 40 groups of radio information;	
	P00-49: P00, P01, P02..... P49 a total of 50 pages to memo 1000 groups of radio station information, each page supplies 20 channels, each page can memo up to 20 groups of radio information;	
FM MODE	NOMAL: Ordinary standard, frequency covers 87.0-108.0MHZ, suitable for receiving commercial FM broadcast in China;	NOMAL
	JAPAN: Japanese standard, frequency covers 76.0-96.0MHZ, suitable for receiving FM broadcasting in Japan.	
	EURO: Europe and USA standard, frequency covers 87.5-108.5MHZ, suitable for receiving commercial FM broadcast in China and the campus.	
	SCHOOL: School standard, frequency covers 76.0-108.0MHZ, suitable for receiving commercial FM broadcast in China and the campus.	
MW MODE	9K: MW step 9K, widely used in Asia, Africa, Europe and other regions.	9K
	10K: MW step 10K, widely used in North America and other regions	
SW FREQ	ALL: Continuous tuning can tune all the covered short wave frequencies.	ALL
	MT ONLY: Meter band tuning, only tune in indicated meter band and its frequency range.	
LIGHT	AUTO: Automatic mode, press  any key except for the backlight automatically delay light.	AUTO
	MANUAL: manual mode, press  to activate backlight or exit.	
SKIPMEM	YES: Skip empty channel when channel switching(except empty page)	YES
	NO: Do not Skip empty channel when channel switching.	
FACTORY	YES: All settings return to the factory default values.	NO
	NO: All settings retain the current set values and do not return to the factory default values.	

Setup method: Press  and hold on until LCD display UTC, (Press  ,  or multi-function knob (rotatable encoder) to select you desired value), repress  to display current set value.

Press  to return to last step and press  and hold on to exit. When you have limited set value, press  to end setup.

Attachment: Time zones which can be set in English and Chinese

Time zone		Country or region
English	Chinese	
ADELAIDE	阿德莱德	Australia
AMSTERDAM	阿姆斯特丹	Netherlands
ANCHORAGE	安克雷奇	United States of America
ATHENS	雅典	Greece
AUCKLAND	奥克兰	New Zealand
BANGKOK	曼谷	Thailand
BEIJING	北京	China
BERLIN	柏林	Germany
BUENOS AIRES	布宜诺斯艾利斯	Argentina
CAIRO	开罗	Egypt
CARACAS	加拉加斯	Venezuela
CHICAGO	芝加哥	United States of America
COLOMBO	科伦坡	Sri Lanka
DACCA	达卡	Bangladesh
DENVER	丹佛	United States of America
DUBAI	迪拜	Arabic
HONG KONG	香港	China
HONOLULU	火奴鲁鲁(檀香山)	United States of America
JEDDAH	吉达	Saudi Arabia
KARACHI	卡拉奇	Pakistan
LONDON	伦敦	United Kingdom
LOS ANGELES	洛杉矶	United States of America
MADRID	马德里	Spain
MEXICO CITY	墨西哥城	Mexico City
MOSCOW	莫斯科	Russia
NEW DELHI	新德里	India
NOUMEA	努美阿	New Caledonia
PARIS	巴黎	France
ROME	罗马	Italy
SAO PAULO	圣保罗	Brazil
SEOUL	汉城	South Korea
SINGAPORE	新加坡	Singapore
STOCKHOLM	斯德哥尔摩	Sweden
SYDNEY	悉尼	Australia
TAIPEI	台北	China
TEHRAN	德黑兰	Iran
TOKYO	东京	Japan
TORONTO	多伦多	Canada
VANCOUVER	温哥华	Canada
VIENNA	维也纳	Austria
ZURICH	苏黎世	Switzerland

## 26. Main Tech. Indices

1. Frequency range		
FM	<b>76.0-108.0</b>	MHz
LW	<b>150-519</b>	KHz
MW	<b>522-1620</b>	KHz
SW	<b>1711-30000</b>	KHz
SW meter band frequency range:		
11m:25400-26200 KHz	22m:13400-14200 KHz	49m: 5600-6400 KHz
13m:21200-22000 KHz	25m:11450-12250 KHz	60m: 4600-5400 KHz
16m:17200-18000 KHz	31m: 9200-10000 KHz	75m: 3700-4500 KHz
19m:15000-15800 KHz	41m: 6800-7600 KHz	90m: 2800-3600 KHz
2. Memorizable station frequency quantity (total 1000pcs)		
3. Limit noise sensitivity		
FM	<b>More than</b>	<b>3 <math>\mu</math>V</b>
LW	<b>More than</b>	<b>1.2 mV/m</b>
MW	<b>More than</b>	<b>1mV/m</b>
SW	<b>More than</b>	<b><math>\mu</math>V</b>
4. Single signal selectivity $\pm$ K more than 30dB		
5、 Power		
Battery:	4 pcs R20(big size) battery	
External DC power:	=== 6V (⊕ ⊖ ⊖)	
External AC power:	~220V 50Hz	
6. Built-in speaker:	D128mm	8 $\Omega$ 5W
7. Earphone:	D3.5mm	32 $\Omega$
8. Size :	around	287(W) x 183(H) x 72(T) (mm)
9. Weight:	around	1821G(battery no included)

Product standard: GB9374-88 National Standard

## 27. "Signal conditions and improvement measures table"

Signal conditions and improvement measures		FM	SW	MW	LW
Strong enough	Stereo	On			
	Select		Wide band	Wide band	Wide band
Weak	Antenna	Completely pull out and adjust the direction	Completely pull out and maintain vertical	Turn radio horizontally	Turn radio horizontally
	Stereo	Off			
	Select		Narrow band	Narrow band	Narrow band
	AM GC		High	High	High
Too strong	Antenna	Shorten little or adjust the direction	Shorten little or adjust the direction	Turn radio horizontally	Turn radio horizontally
	AM GC		Turn down	Turn down	Turn down
Strong station interference	Antenna	Shorten little or adjust the direction	Shorten little or adjust the direction	Turn radio horizontally	Turn radio horizontally
	Select		Narrow band	Narrow band	Narrow band
Fluctuations or interfere sound is too large	Antenna	Shorten little or avoid interference source	Shorten little or avoid interference source	Turn radio horizontally	Turn radio horizontally
	Stereo	Off			
	Select		Narrow band	Narrow band	Narrow band
	AM GC		Turn down	Turn down	Turn down
Strong current interference		Use dry battery power supply	Use dry battery power supply	Use dry battery power supply	Use dry battery power supply



Part Name	Harmful and toxic substances and elements					
	Pb	Hg	Cd	Cr Vi	PBB	PBDE
PRINTED CIRCUIT ASSEMBLY	X	0	0	0	0	0
EARPHONE	X	0	0	0	0	0
MECHANISM ASSEMBLY	0	0	0	0	0	0
CABINET/COVER/CASE	0	0	0	0	0	0
<p>0: Indicates that the harmful and toxic substances content in this part meets SJ/T11363-2006 standard</p> <p>X: Indicates that the harmful and toxic substances content in certain homogeneous material is beyond SJ/T11363-2006 standard requirements.(Some "X" meet ROHS).</p> <p>* : Printed circuit assembly includes electronic component in printed circuit boards and above.</p> <p style="text-align: right;">AR68-0705A REV.00</p>						



We specialize in production and sales of fm transmitter and the fm transmitter accessories. We have been exporting FM transmitter for 5 years. It been sold very well. So I know it and its market. It has very high performance and high stability. We have clients all over the world, not only the resellers but also the consumers.

Our product include: fm transmitters, antennas, power supplies and PCB and radio and such kind of fm transmitter accessories.

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