

KA600

FM/AM/SW/LW/WEATHER MUTI-BAND RECEIVER
DYNAMO & SOLARPOWER SUPPLY
WITH FLASHLIGHT & READING LIGHT
TEMPERATURE AND MOISTER INDICATOR

OPERATION MANUAL



Thank You:

Thank you for purchasing the KA600 multi-band receiver. Please read the manual thoroughly before operating and keep this book in a safe place for future reference. Hope the radio can give you much happiness.

- FM Band: 87.0-108.0MHz
AM (10K): 520-1710KHz
AM (9K): 522-1710KHz
SW: 2300-23000KHz
LW: 150-521KHz
WEATHER CH1-CH7
- POWER SUPPLY Ni-MH Battery
 AA Battery
 Adapter
- CHARGING Ni-MH Batteries:
 Dynamo Charging
 External Adapter Charging
 Solar Charging
 Charging via PC
- The radio can charge cellphone, MP3, MP4 and other gadgets.
- LED flashlight plus 5-LED reading lamp
- Built-in dynamic wide range speaker for crystal clear sound.

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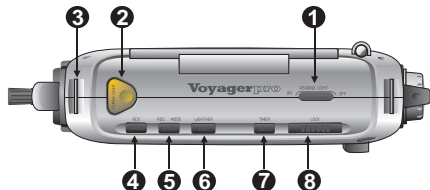
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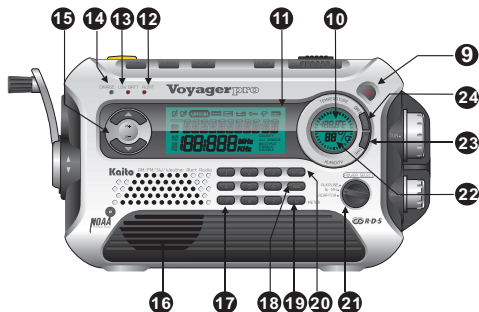
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LOCATION OF CONTROLS

TOP



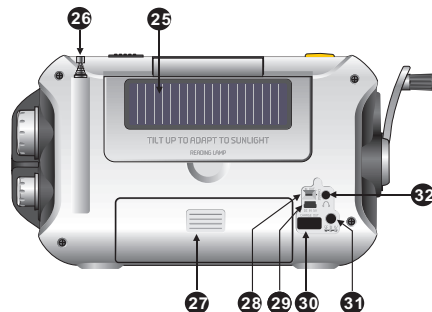
FRONT



- ① Reading Light Switch
- ② Flash Light Button
- ③ Hand Strap Hole
- ④ <RDS>/<ALARM1> Button
- ⑤ <RDS MODE>/<ALARM2> Button
- ⑥ <ALERT> Button
- ⑦ <SLEEP> Button
- ⑧ <SNOOZE> Button
- ⑨ <Power> Button
- ⑩ Temperature Indicator
- ⑪ LCD Display
- ⑫ <ALERT> Light

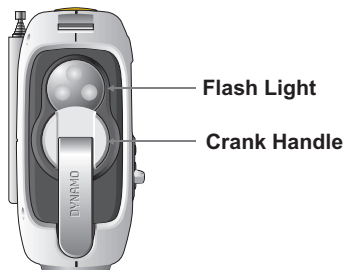
LOCATION OF CONTROLS

REAR

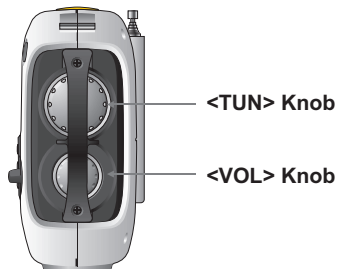


- ⑬ <LOW BATT> Light
- ⑭ <CHARGE> Light
- ⑮ M+/M- Button
- ⑯ Speaker
- ⑰ Numeric Button
- ⑱ <AM> Button;
- Power On: select AM
- Power Off: select step 9K/10K
- ⑲ Numeric 0 Button: select meter band
- ⑳ <FM/WB> Button
- ㉑ <POWER SELECT> Switch
- Ni-MH: Ni-MH Batteries and Solar Panel
- ADAPTOR: External Adapter
- ALKALINE: AA Size Batteries
- ㉒ Moisture Indicator
- ㉓ Button
- ㉔ <MEMORY> Button
- ㉕ Front: Solar Panel; Rear: Reading Light
- ㉖ Telescopic Antenna
- ㉗ Battery Compartment
- ㉘ <CHARGE> Switch
- ㉙ <DC IN 5V> Port
- ㉚ <CHARGE OUT> Port
- ㉛ <DC IN 6V> Jack
- ㉜ Earphone Jack

LEFT

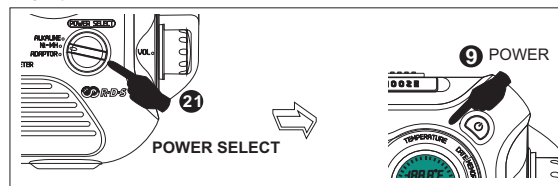


RIGHT



Power On and Power Off

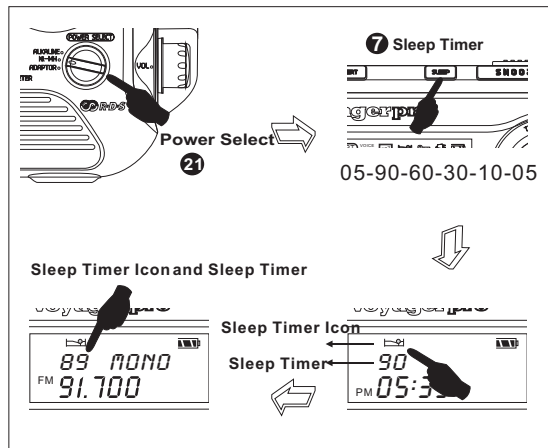
1. Rotate the <POWER SELECT> to the valid charging position.
ALKALINE. : AA Battery Charging
ADAPTOR. : External Adapter Charging
2. In the unit off mode, press the button <POWER> to turn on the unit, press the butto <POWER> again to turn off the unit.



Sleep Timer

1. Rotate the <POWERSELECT> to the valid charging position.
2. In the unit off mode, press the button < SLEEP> repeatedly to select your desired sleep timer from 05~90 minutes.
3. If you select the sleep timer, the unit will turn on automatically after a few seconds with the icon "⌚" and the minute appearing in the display.
4. While reaching your setting sleep time, the unit will turn off automatically.

NOTE: If the unit turns on by pressing the button <POWER>, you can also select the sleep timer by pressing the button <SLEEP> shortly to select your desired sleep timer.



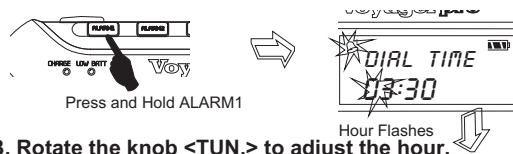
Alarm On/Off

The unit has two alarm functions: alarm1 and alarm2.

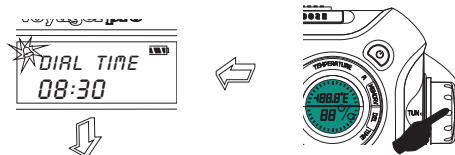
1. In the unit off mode, press and hold the button <ALARM1> or <ALARM2> with the icon "⏰" flashing to enter the alarm on/off function. The setting order: hour, minute, presetting off time.
2. Press the button <ALARM1> or <ALARM2> to enter the next setting.
3. Rotate the knob <TUN.> to adjust the alarm time and presetting off time.

Example: Set the ALARM1 on at 8:05, and alarm off after 15 minutes.

- A.** In the unit off mode, press and hold the button <ALARM1> with the icon "⏰" and the hour flashing.



- B.** Rotate the knob <TUN.> to adjust the hour.



- C.** Press the <ALARM1> and then rotate the knob <TUN.> to adjust the minute. Press the button <ALARM1> to set the off time by rotating the knob <TUN.>



- D.** Press the button <ALARM1> shortly to confirm.

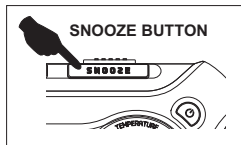


Activate and Cancel the Alarm Function

In the unit off mode, press the button <ALARM1> or <ALARM2> shortly with the icon "☞" flashing in the display, the alarm function is activated. Press the button <ALARM1> or <ALARM2> again, if the icon "☞" disappears from the display, the alarm function is canceled.

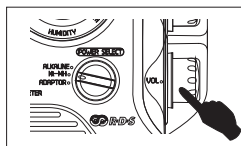
Snooze 5 Minutes

When the unit alarm on, press the button <SNOOZE> shortly, then the unit is powered off for 5 seconds.



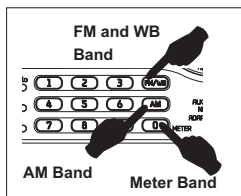
Adjust the Volume

In the unit on mode, rotate the knob <VOL> to adjust the volume.



Band Selecting

1. In the unit on mode, press the button <FM/WB> to listen to the FM/AM band.
2. Press the button <AM> shortly to listen to the AM band. Press the button <AM> shortly repeatedly to convert between MW, LW and SW.
3. Press the numeric button <0> shortly repeatedly to select the meter band.



Frequency Diagram:

FM : 87-108MHz

AM : MW, LW, SW

MW(10K) : 520-1710KHz

MW(9K) : 522-1710KHz

LW : 150-521KHz

SW : 2300KHz-23000KHz

Meter Band(KHz):

120m : 2300-2550KHz

90m : 3150-3450KHz

75m : 3850-4050KHz

60m : 4700-5100KHz

49m : 5700-6500KHz

41m : 7100-7700KHz

31m : 9200-10000KHz

25m : 11400-12200KHz

22m : 13500-13900KHz

19m : 15000-15800KHz

16m : 17450-17950KHz

15m : 18850-19100KHz

13m : 21450-21950KHz

Meter Band(MHz):

120m : 2.300-2.550MHz

90m : 3.150-3.450MHz

75m : 3.850-4.050MHz

60m : 4.700-5.100MHz

49m : 5.700-6.500MHz

41m : 7.100-7.700MHz

31m : 9.200-10.000MHz

25m : 11.400-12.200MHz

22m : 13.500-13.900MHz

19m : 15.000-15.800MHz

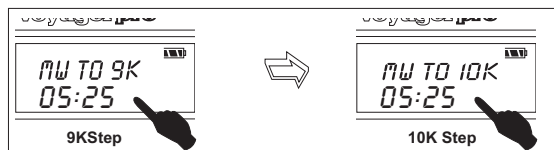
16m : 17.450-17.950MHz

15m : 18.850-19.100MHz

13m : 21.450-21.950MHz

Select AM Step 9K/10K

In the unit off mode, press and hold the button <AM> about 5 seconds with the step 9K or 10K appearing in the display. Press and hold the button <AM> again to convert between 9K and 10K.

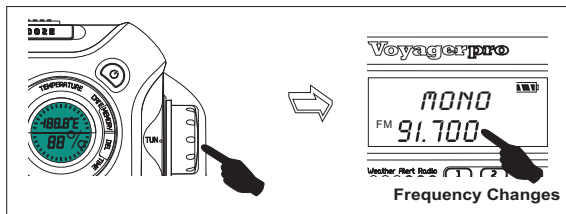


Using the Antenna

While listening to the FM or AM programs, please extend the telescopic antenna fully and get close to the window to get the best reception. The unit uses an internal, ferrit bar antenna for AM or LW. While listening to the AM or LW programs, please rotate the unit to get the best reception.

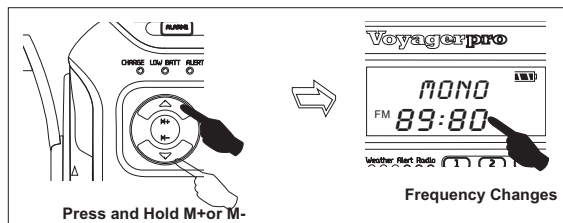
Manual Tuning in Stations

1. Turn on the unit and select the band.
2. Adjust the volume.
3. Rotate the knob <TUN.> to your listen to your desired program.



Auto Scan Tuning

1. Turn on the unit and select the band.
2. Press and hold the button <M+> or <M-> with the frequency changing in the display, then release the button, the unit is auto scan tuning the stations. When auto tuning the strong signal, the unit will broadcast the station.



Direct Frequency Entry

Input FM Band Frequency

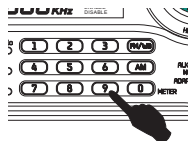
After inputting FM band number, press the <FM/AM> button shortly to listen to FM program.

Input AM Band Frequency

First select the frequency range (MW, AM or LW), then input the frequency number. After inputting the number, press the <AM> button to confirm.

NOTE: While inputting the frequency number, the number "0" at the end of the frequency can be deleted. The time between two steps is limited, please perform quickly otherwise the inputting is invalid.

Example1: Input FM 95.80MHz

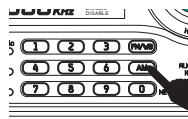


Input the numeric button 9, 5, 8, 0, and then press the <FM/WB> button shortly to confirm.

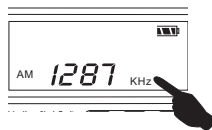


The Input Frequency

Example 2: Input AM (9K) 1287KHz

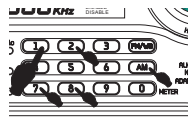


Firstly press the <AM> button, and then press the numeric button 1,2,8,7, finally press the <AM> button shortly to confirm.

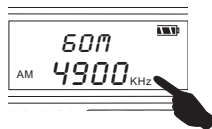


The Input Frequency

Example 3 : Input SW 4900KHZ



Firstly press the <AM> button, and then press the numeric button 4, 9, 0, 0, finally press the <AM> button shortly to confirm.



The Input Frequency

Auto Tuning Storage (ATS)

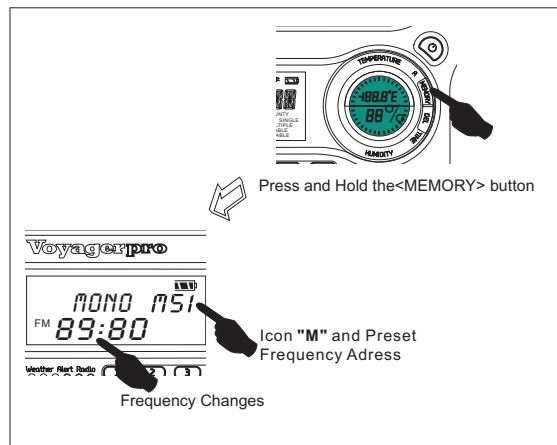
1. Select the band.
2. Adjust the volume.
3. Press and hold the < MEMORY > button until frequency starts auto tuning, then release the button, the unit will store the station while scanning the strong signal.

FM (ATS): 50 memories, (from 50)

AM (ATS): 10 memories, (from 15)

LW (ATS): 5 memories, (from 05)

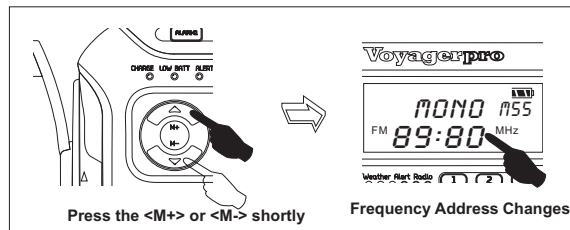
SW(ATS): 50 memories, (from 50)



Listening to Preset Stations

(1) Manual

1. Select the band.
2. Press the <M+> or <M-> button shortly to select the preset frequency address. In this way, you can find the preset station quickly.



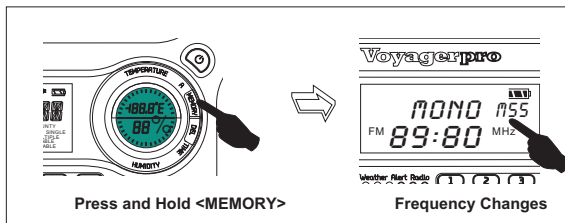
(2) Direct Frequency Entry Listening

1. Select the band.
2. In the preset mode, input the frequency address directly, and then press the <MEMORY> button shortly to listen to the program.

NOTE: In the preset mode, there are icon "M" and the frequency address showing in the display. You can press the <M+> or <M-> button to entry into the mode.

Manual Tuning Storage

1. Press the <MEMORY> button shortly to enter into the memory mode with "M" and the preset memory address flashes, then press the <M+> or <M-> button shortly to select the preset memory address.
2. Press the <MEMORY> button shortly once again to confirm. The station address is stored in the memory.



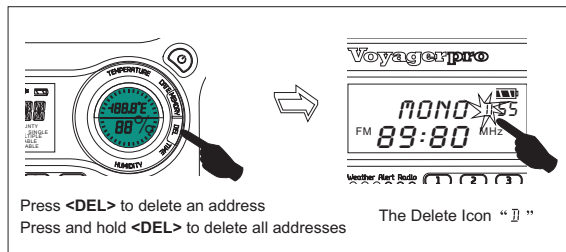
FM can store 100 memories and address 00 is advised to be stored while manual tuning.
 AM can store 25 memories and address 00 is advised to be stored while manual tuning.
 LW can store 10 memories and address 00 is advised to be stored while manual tuning.
 SW can store 100 memories and address 00 is advised to be stored while manual tuning.

Delete APreset Station

1. Select the band.
2. Press the <M+> or <M-> shortly to select the address where the frequency saved in.
3. Press the button shortly with the icon "I" flashing, then press the button shortly again to delete the address.

Delete ALL Preset Stations

1. Select the band.
2. Press and hold the button (about 3 seconds) with "I ALL" flashing, then press the button shortly once again to delete all the preset frequencies.



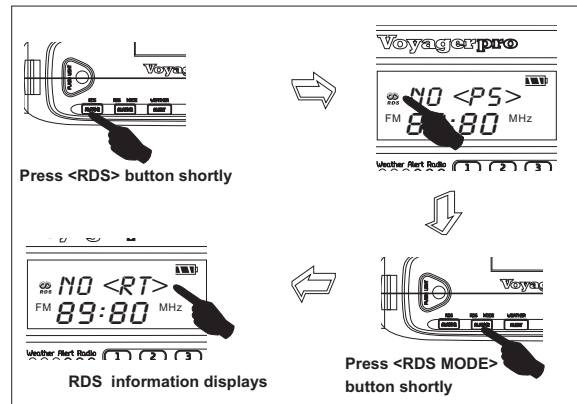
FM RDS

1. Select a strong signal station of FM.
2. Press the <RDS> button shortly with the icon "RDS" in the display.
3. Press the <RDS MOOD> button repeatedly to see what is being transmitted.

Rt : Station Text Message

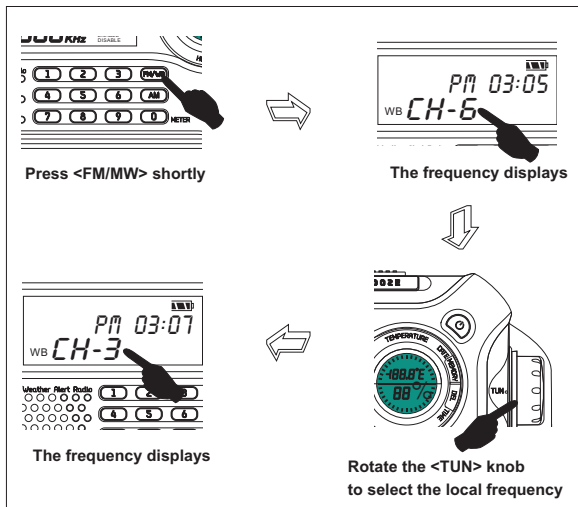
PTY : Program Type

PS : Station Name



Listening to the Weather Report

1. Press the <FM/WB> button shortly to enter into weather reception mode.
2. Rotate the <TUN.> knob to select the local frequency position. Then you can listen to the weather report.



Weather Band Channel Frequencies

CHANNEL	FREQUENCY(MHz)
CH1	162.400
CH2	162.425
CH3	162.450
CH4	162.475
CH5	162.500
CH6	162.525
CH7	162.550

Weather Emergencies Reception

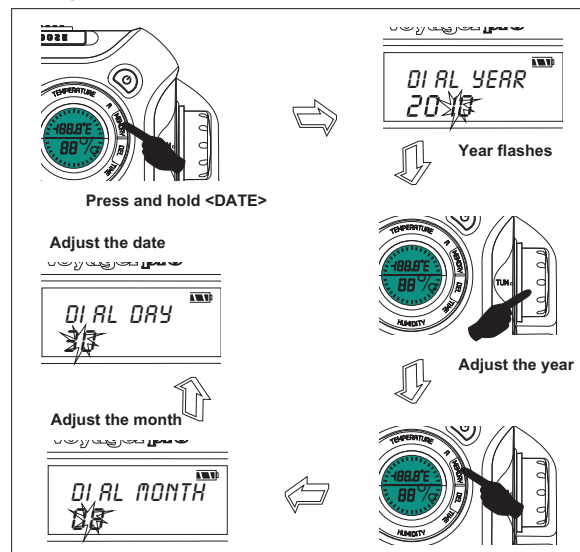
1. Press the <FM/WB> button shortly to enter into the local weather frequency position.
2. Press the <ALERT> button to enter into the weather emergencies reception, the icon "ALERT" will show in the display and the light "ALERT" flash. You can power off the unit, if there is weather emergencies, the unit will power on and report the weather emergency automatically.



Adjust the date

1. In the unit off mode, press and hold the <MEMORY> button (about 2 seconds) with the year flashes. Then tune the <TUN> knob to adjust the year, finally press the <MEMORY> button to confirm.
2. After setting the year, press the <MEMORY> button shortly with the month flashes. Then tune the <TUN> knob to adjust the month, finally press the <MEMORY> button to confirm.
3. After setting the month, you can use the same way to set the date.

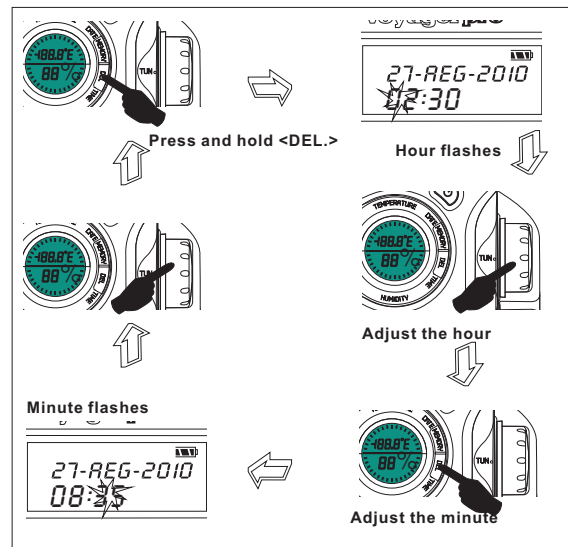
Example: set 2010.8.30



Adjust the clock

1. In the unit off mode, press and hold the button (about 2 seconds) with the hour flashes. Then tune the <TUN.> knob to adjust the hour.
2. After tuning the hour, press the button shortly once again, then tune the <TUN.> knob to adjust the minute, finally press the button shortly to confirm.

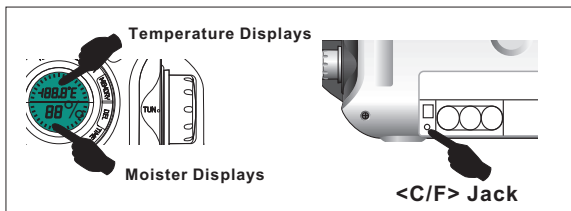
Example: set clock 8:35



NOTE: The clock mode is 12 H, "PM" will show on the display if time is after 12:00.

Moister and Temperature Display

There is the moister and temperature indicator in the left side of the unit, the upper indicator displays temperature and the downside displays moister. You can press the <C/F> jack in the battery compartment with the pointy object to convert between the fahrenheit and celsius.



Using Flashlight

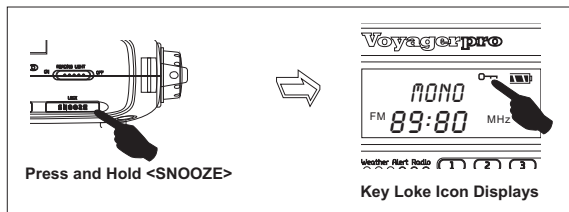
Press the <FLASHLIGHT> button on the top of the unit, the flashlight will be on. Press the <Flash Light> button once again shortly to turn off the light.

Using Reading Light

Firstly, open the solar panel, then push the <Reading Light> switch to the "ON" side, the reading light is on. Push the <Reading Light> switch to the "OFF" side, the reading light is off.

Key Lock Function

Press and hold the <SNOOZE> button (about 2 seconds) with the icon "O—" shows in the display, key lock function is activated. Press the <SNOOZE> button again with the icon disappearing, and the key lock function is deactivated.

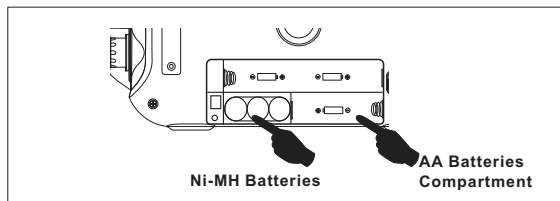


Reset the Unit

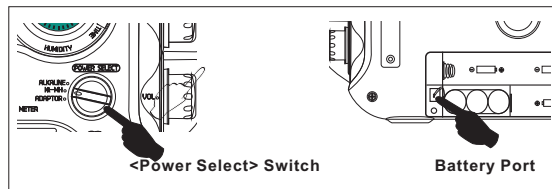
If the unit operates erratically, please turn off the unit and take out the AA batteries for several minutes then install batteries again, the unit will work normally.

Ni-MH Battery

- (1) Remove the battery compartment's cover by pushing the cover in the direction of the arrow.
- (2) Install the Ni-MH batteries in its compartment, and then connect battery port with the unit.
- (3) Rotate the <PowerSelect> to Ni-MH position, the unit can work normally.



Note: The charging function of the unit is only used for the Ni-MH batteries.



AA Batteries

- (1) Open the battery compartment's cover.
- (2) Install 3 AA size batteries according to the polarity diagram.
- (3) Rotate the <PowerSelect> switch to "ALKALINE" position, the unit can work normally.

NOTES:

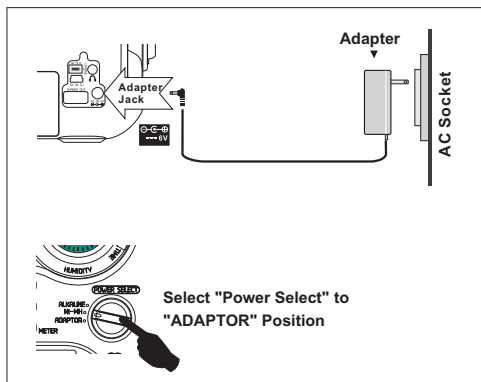
- (1) If you set the <Power Select> to "Ni-MH" position, the unit consumes the Ni-MH batteries, if you set the <PowerSelect> to "ALKALINE" position, the unit consumes the AA batteries.
- (2) Please don't mix the rechargeable batteries with the alkaline ones.
- (3) Please don't mix the used batteries with the new ones.
- (4) Please don't mix AA batteries with the metal.
- (5) If you don't use the unit for a long period, please remove the AA batteries to prevent battery corrosion.

Low Battery Power Warning

When the battery power is low, the <LOW BATT> light will flash. In this condition, you can't turn on the unit. If the warning displays, please select the other charging mode or charge the unit immediately.

Adapter

- (1) Plug one port of the adapter into the AC socket and plug the other port into the <DC IN 6V> jack.
- (2) Select the <Power Select> switch to "ADAPTOR" position. If you connect correctly, the icon "🔌" will show in the display.



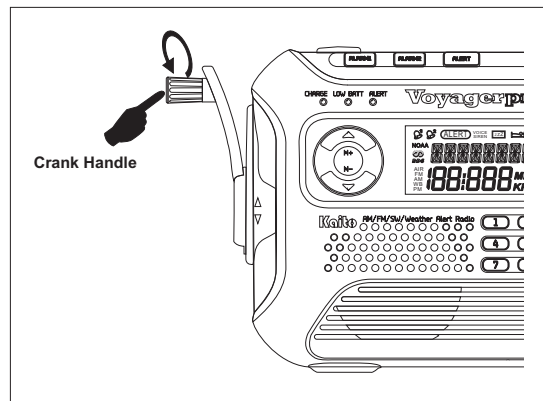
NOTE: In unit off mode, please don't use the external adapter for three hours.

There are four ways to charge the Ni-MH batteries: dynamo charging, solar charging, external adapter charging and PC charging. The "CHARGE" light will be on while dynamo and solar charging. Before charging, please push the "CHARGE" switch to "IN" position.

Dynamo Charging

You can charge the unit either in radio on mode or off mode.

1. Push the <CHARGE> switch to "IN" position.
2. Turning the hand crank, the built-in dynamo will start to generate electricity and charge the Ni-MH batteries automatically.



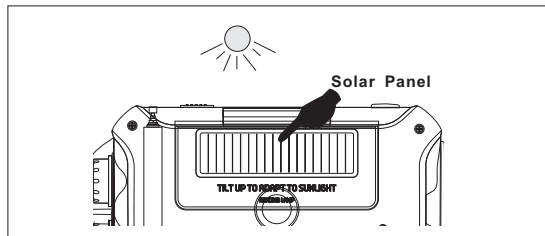
External Adapter Charging

You can charge the Ni-MH batteries either in radio on or off mode.

1. Connect the unit with external adapter correctly then the icon "☎" shows in the display.
2. The Ni-MH batteries will be charged automatically with the battery power icon "🔋" flows. When the battery power is full, "🔋" stops flowing.

Solar Charging

Put the unit under the sun, if the sunlight is strong, the Ni-MH batteries will be charged automatically either in the radio on or off mode.



Note:

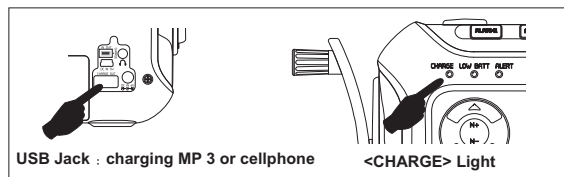
Please don't put the unit in the extreme strong sunlight for long period.

Charging via PC

1. Plug one port of the supplied USB cable into the USB jack of the PC and the other port into the "DC IN5V" jack of the radio. When the connection is correctly, the icon "☎" will show in the display.
2. The Ni-MH batteries will be charged automatically with the battery power icon "🔋" flows. When the battery power is full, "🔋" stops flowing.

Charging MP 3 or Cellphone

1. Push the <CHARGE> switch to "OUT" position.
2. Plug one port of the supplied USB cable into the <CHARGE OUT> jack and the other port into the MP 3 or cellphone jack.
3. Turn the handle crank or connect the unit with external adapter to charge Mp3 or cellphone.
4. While charging, the power light "CHARGE" will be on.



NOTES:

1. Some cellphones require special demands about the charging current and voltage, maybe they can't be charged by the unit.
2. While using the external adapter to charge cellphone or MP 3 you should disconnect the Ni-MH cable with the unit.

PRECAUTIONS

- Do not expose the radio to rain or humid environment.
- Do not expose the radio to extreme strong sunlight, close to heat sources, or leave it in the place with excessive dust.
- When charging the unit by solar, please do not put the unit in the extreme sunlight for long period.
- If the radio is not used for a long time, remove all the batteries to prevent battery leakage or corrosion.

SPECIFICATION

1. Frequency

FM	87 - 108 MHz
MW(10K)	520 - 1710 KHz
MW(9K)	522 - 1710KHz
LW	150 - 521KHz
SW	2300- 23000KHz

WEATHER(MHz)

CH1 162.400	CH5 162.500
CH2 162.425	CH6 162.525
CH3 162.450	CH7 162.550
CH4 162.475	

2. Noise Limit Sensitivity

FM	≤ 10 dB
MW/LW	≤ 1mV/m
SW	≤ 30 dB

3. Ni-MH Batteries	3.6V
AA alkaline Batteries	4.5V
External Adapter	6.0V

4. Internal Speaker	D66mm
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5. Earphone	D3.5mm
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6. Dimension	Approx 240 * 138 * 70
7. Weight	Approx 560g(incl.Ni-MH batteries)