Kaito

KA600

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

OPERATION MANUAL

Thank You:

Thank you for purchasing the KA600 muti-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

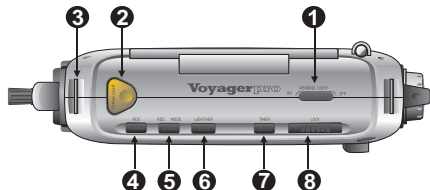- Built-in dynamic wide range speaker for crystal clear sound.

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FRONT
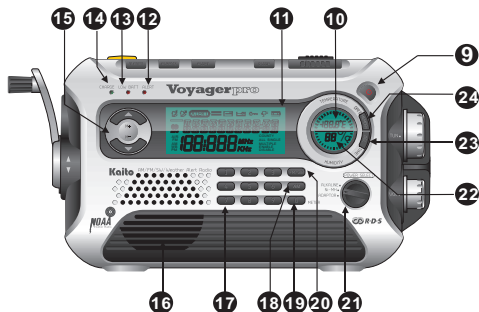
REAR

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
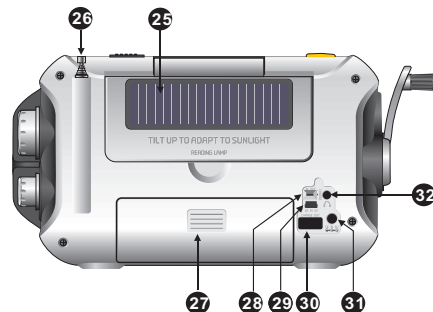
13 <LOW BATT> Light
14 <CHARGE> Light
15 M+/M- Button
16 Speaker
17 Numeric Button
18 <AM> Button;
Power On:select AM
Power Off: select step 9K/10K
19 Numeric 0 Button:select meter band
20 <FM/WB> Button
21 <POWER SELECT> Switch

Ni-MH：Ni-MH Batteries and Solar Panel
ADAPTOR：External Adapter
ALKALINE ：AA Size Batteries

22 Moister Indicator
23 <DEL> Button
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29 <DC IN 5V> Port
30 <CHARGE OUT> Port
31 <DC IN 6V> Jack
32 Earphone Jack

1

2

LEFT

Flash Light

Crank Handle

RIGHT

<TUN> Knob

<VOL> Knob
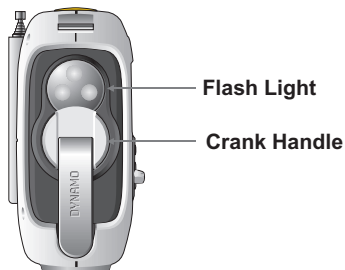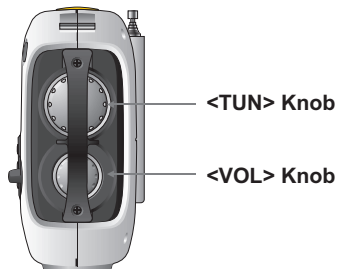
Power On and Power Off

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.

❾ POWER

㉑

POWER SELECT
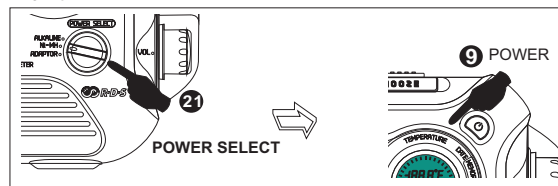
Sleep Timer

1.Rotate the <POWER SELECT> 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 turn 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.

Power Select

㉑

❼ Sleep Timer

05-90-60-30-10-05

Sleep Timer Icon and Sleep Timer

Sleep Timer Icon

Sleep Timer
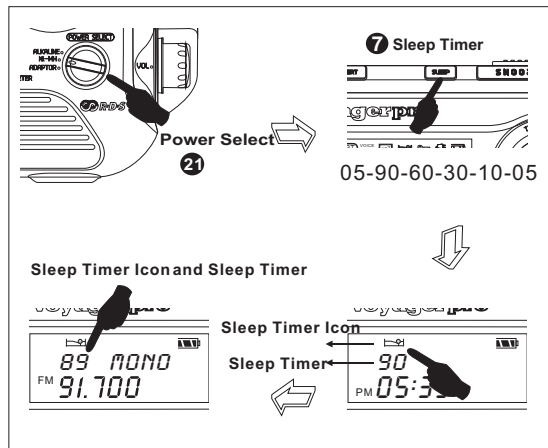
Alarm On/Off

The unit has two alarm function: 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.

Press and Hold ALARM1

DIAL TIME
03:30

Hour Flashes
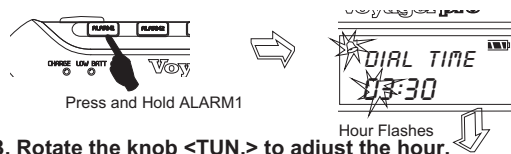
B. Rotate the knob <TUN.> to adjust the hour.

DIAL TIME
08:30
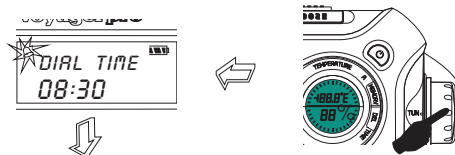
C. Press the <ALARM1> and then rotate the knob <TUN.> to adjust the minute. Press the button <ALARM1> to ...... set the off time by rotating the knob <TUN.>

DIAL DELAY
15

Off Time:01~99 minutes

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

24-AEG-2010
08:05

Press Shortly

Activate and Cancel the Alarm Function

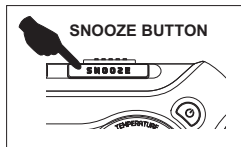In the unit off mode, press the button **<**ALARM1**>** or
<ALARM2**>** shortly with the icon " ☺" flashing in the display,
the alarm function is activated. Press the button <ALARM1>
or <ALARM2> again, if the icon "☺" disappears from the
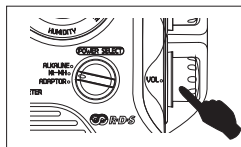display, the alarm function is canceled.

Snooze 5 Minutes

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

SNOOZE BUTTON

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.

FM and WB Band

AM Band   Meter Band
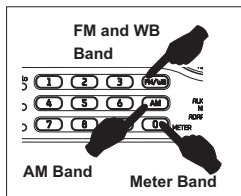
Frequency Diagram：

FM：87-108MHz	
AM：MW，LW，SW	
MW(10K)：520-1710KHz	MW(9K)：522-1710KHz
LW：150-521KHz	SW：2300KHz-23000KHz
Meter Band(KHz)：	**Meter Band(MHz)：**
120m：2300-2550KHz	120m：2.300-2.550MHz
90m：3150-3450KHz	90m：3.150-3.450MHz
75m：3850-4050KHz	75m：3.850-4.050MHz
60m：4700-5100KHz	60m：4.700-5.100MHz
49m：5700-6500KHz	49m：5.700-6.500MHz
41m：7100-7700KHz	41m：7.100-7.700MHz
31m：9200-10000KHz	31m：9.200-10.000MHz
25m：11400-12200KHz	25m：11.400-12.200MHz
22m：13500-13900KHz	22m：13.500-13.900MHz
19m：15000-15800KHz	19m：15.000-15.800MHz
16m：17450-17950KHz	16m：17.450-17.950MHz
15m：18850-19100KHz	15m：18.850-19.100MHz
13m：21450-21950KHz	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.


9KStep

10K Step
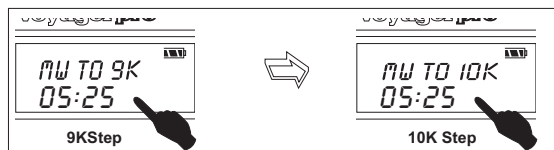
Using the Antenna

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.
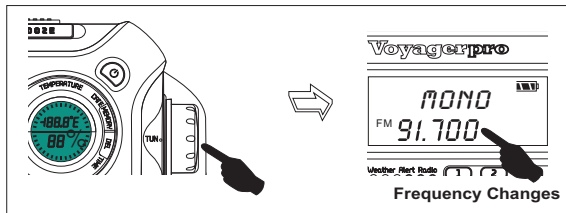
Frequency Changes

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.

Press and Hold M+ or M-

Frequency Changes
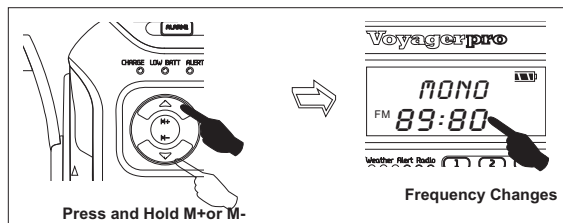
Direct Frequency Entry

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.
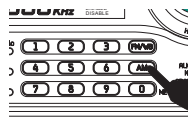
Example1: Input FM 95.80MHz

MONO
FM *95:80* MHz

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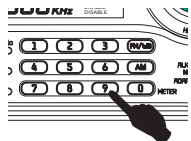
Input the numeric button 9，
5，8，0, and then press the
<FM/WB> button shortly to
confirm.

Example 2: Input AM (9K) 1287KHZ

AM *1287* KHz

The Input Frequency

Firstly press the <AM> button shortly,
and then press the numeric button
1,2,8,7, finally press the <AM> button
shortly to confirm.
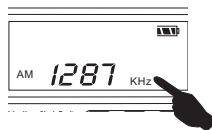
Example 3：Input SW 4900KHZ

60M
AM *4900* KHz

The Input Frequency
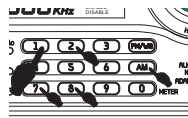
Firstly press the <AM> button, and then
press the numeric button 4, 9, 0, 0 , finally
press the <AM> button shortly to confirm.
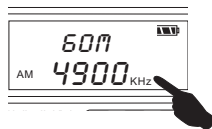
Auto Tuning Storage (ATS)

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)

Press and Hold the<MEMORY> button

Voyagerpro

MONO M51
FM *89:80*

Icon **"M"** and Preset
Frequency Adress

Frequency Changes

11

12
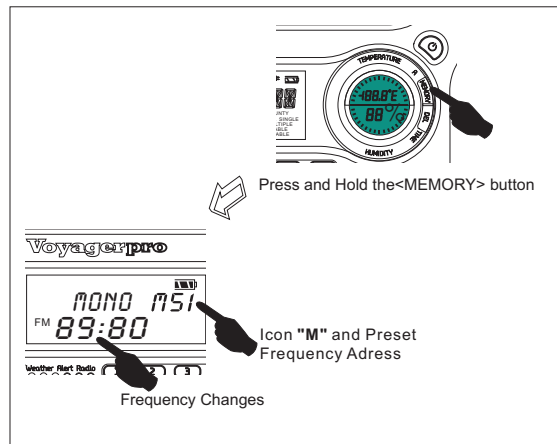
Listening to Preset Stations

(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.

Press the <M+> or <M-> shortly   **Frequency Address Changes**

(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

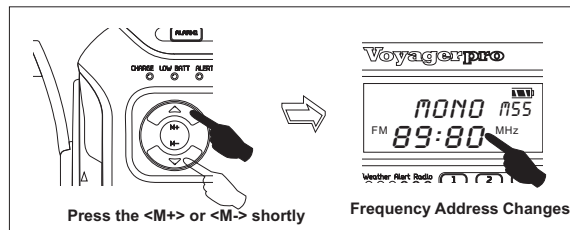1. Press the **<MEMORY>** button shortly to enter into the memory mode with "M" and the preset memory address flashes, then press the **<M+>** or **<M->** button shortly to select the preset memory address.
2. Press the **<MEMORY>** button shortly once again to confirm. The station address is stored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

Press and Hold <MEMORY>   **Frequency Changes**
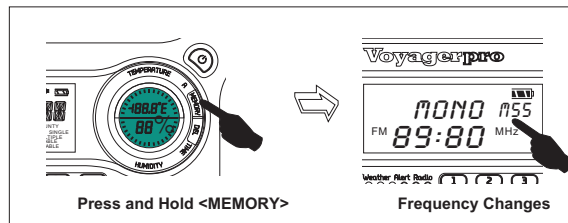
FM can store 100 memories and address 00 is advised to be stored while manual tuning.
AM can store 25 memories and address 00 is advised to be stored while manual tuning.
LW can store 10 memories and address 00 is advised to be stored while manual tuning.
SW can store 100 memories and address 00 is advised to be stored while manual tuning.

Delete A Preset Station

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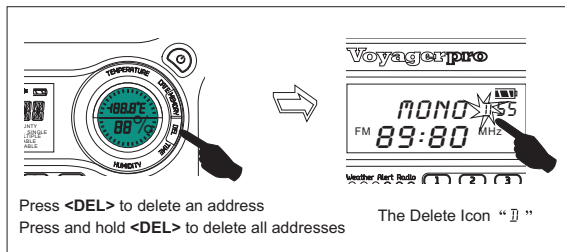3. Press the <DEL> button shortly with the icon "⫿" flashing, then press the <DEL> button shortly again to delete the address.

Delete ALL Preset Stations

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

Press **<DEL>** to delete an address
Press and hold **<DEL>** to delete all addresses
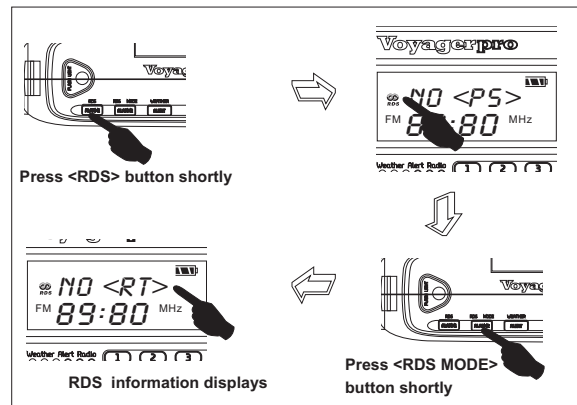
The Delete Icon " ⫿ "

FM RDS

1. Select a strong signal station of FM.
2. Press the <RDS> button shortly with the icon "⊚" 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

Press **<RDS>** button shortly

RDS information displays

Press **<RDS MODE>** button shortly

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.

Press <FM/MW> shortly

The frequency displays

The frequency displays

Rotate the <TUN> knob to select the local frequency
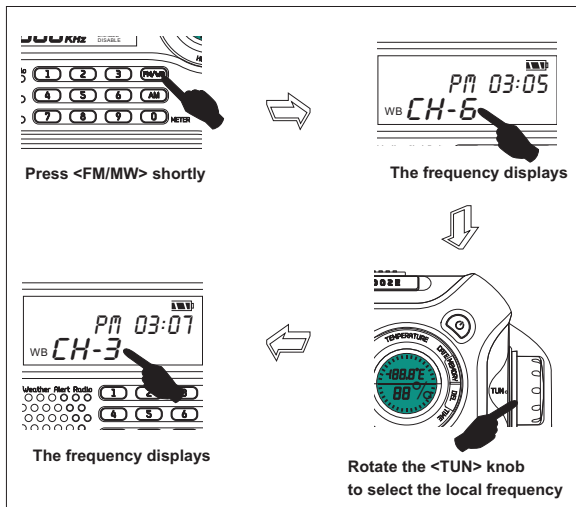
Weather Band Channel Frequencies

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 weater 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 weater emergency automatically.
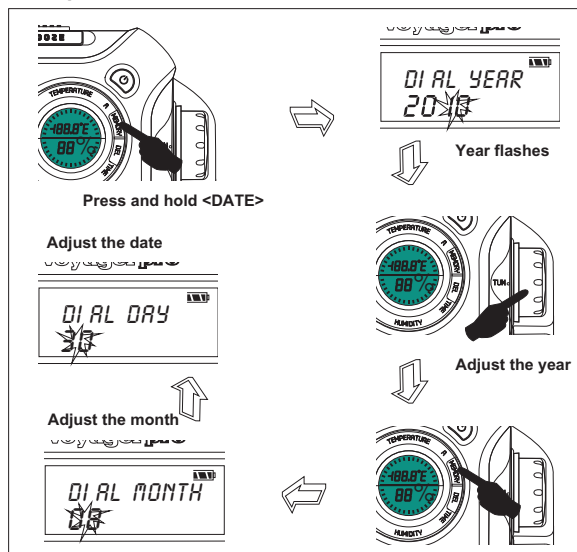

Press <ALERT> shortly

The icon "ALERT" displays

17

18

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 <DEL> button (about 2 seconds) with the hour flashes. Then tune the <TUN.> knob to adjust the hour.
2. After tuning the hour, press the <DEL> button shortly once again, then tune the <TUN.> knob to adjust the minute, finally press the <DEL> button shortly to confirm.

Example: set clock 8:35
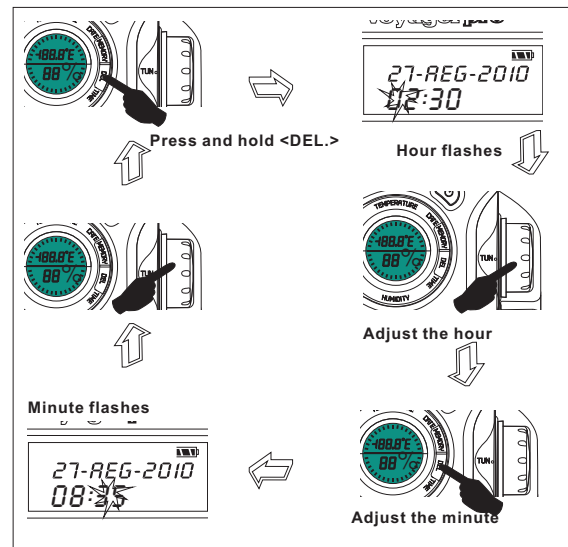
NOTE: The clock mode is 12 H," PM" will show on the display if time is after 12:00.

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.

Temperature Displays

Moister Displays

**<C/F> Jack**
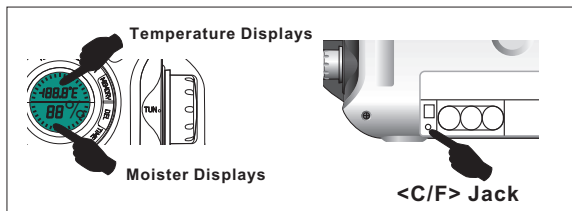
Using Flashlight
Press the <FLASH LIGHT> button on the top of the unit, the flashlight will be on. Press the <Flash Light> button once again shortly to turn off the light.

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 "⊶" 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.


Press and Hold <SNOOZE>

Key Loke Icon Displays
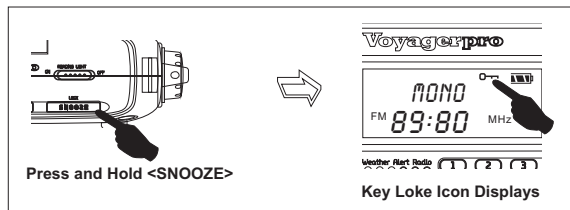
Reset the Unit

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 <Power Select> to Ni-MH position, the unit can work normally.

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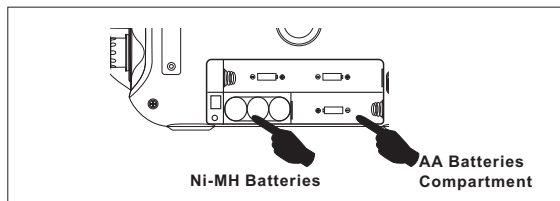
Note: The charging function of the unit is only used for the Ni-MH batteries.

<Power Select> Switch   **Battery Port**
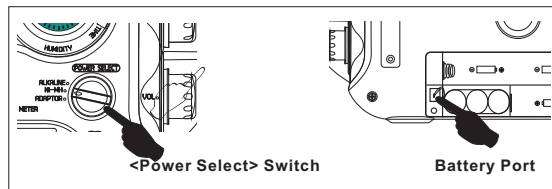
AA Batteries

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

NOTES:
(1) If you set the <Power Select> to "Ni-MH" position, the unit consume the Ni-MH batteries, if you set the <Power Select> to "ALKALINE" position, the unit consume 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 lest 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.

**Select "Power Select" to "ADAPTOR" Position**
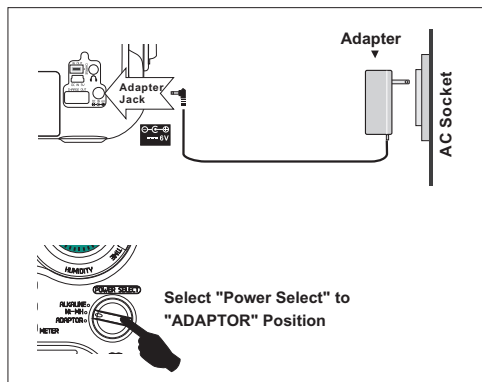
NOTE:In unit off mode, please don't use the external adapter for three hours.

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.


Crank Handle
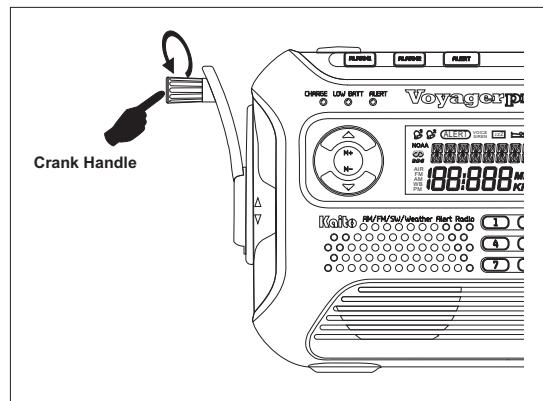
External Adapter Charging

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.


Solar Panel

TILT UP TO ADAPT TO SUNLIGHT
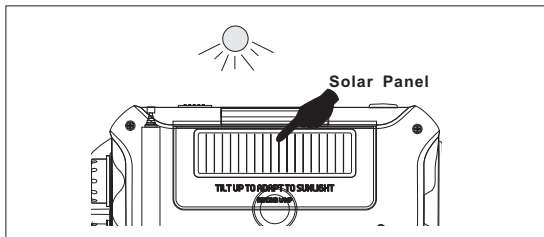
Note:
Please don't put the unit in the extreme strong sunlight for long period.

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 IN 5V" 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 suppied 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 powr light "CHAGE" will be on.

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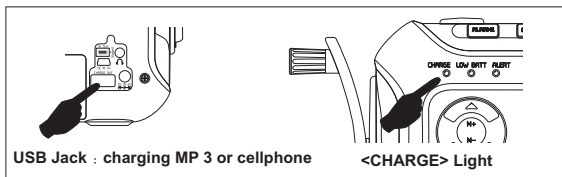
NOTES:
1. Some cellphones require special demands about the charging current and voltage, maybe they can't be charged by the unit.
2. While using the external adapter to charge cellphone or MP 3 you should disconnect the Ni-MH cable with the unit.

- Do not expose the radio to rain or humid enviroment.

- Do not expose the radio to extreme stronge 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 prevernt battery leakage or corrosion.

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	$\leqslant$ 10 ₦
MW/LW	$\leqslant$ 1mv/m
SW	$\leqslant$ 30 ₦

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

4. Internal Speaker	D66mm
5. Earphone	D3.5mm

6. Dimension Approx 240 * 138* 70
7. Weight Approx 560g(incl.Ni-MH batteries)

10-09-18