

Package Information

KA500 Voyager Emergency Radio	*1
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Product Registration Form	*1
Micro-USB Charge Cable	*1
Built-in Rechargeable Ni-MH Battery	*1

Kaito[®]

KA500 Voyager Emergency Radio

AM | FM | Short Wave | NOAA Weather Band

User's Manual

**For service and questions, please visit our website: www.kaito.us,
Or email us at info@kaito.us**

You can find the Series Number inside the battery compartment, you can register it online: www.kaito.us/product-registration
Or scan the QR code to get the link for registration.

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Introduction



This KA500 Voyager Emergency Radio is a analog tuning multi-band radio with multiple emergency functions.

It's easy to use with a simple and intuitive classic analog tuning and pointer display system. It is easy to operate and is ideal for users of all ages.

It's an AM, FM, Shortwave and NOAA Weather band radio, also provides local NOAA Weather Alert

emergency function to help users respond to emergency situations. This true emergency gadget is ideal for outdoors or situation where you need to stay connected and informed, for example, power outages, hurricanes, earthquakes, floods, mountain fires, snow disasters and so on.

It also contains other features, such as a LED flashlight and red 'SOS' alert light, a 5-LED adjustable tilt angle and concealable reading lamp, a built-in cranking dynamo, an adjustable tilt angle solar panel, a portable soft handle strip. At the same time, it also provides backlight illumination, charging and low battery indicator and more.

The KA500 Voyager Emergency Radio has an excellent internal magnetic speaker built in, and the sound quality is clear and pleasing. And stereo headphone jack is provided for listening privately.

It has multiway power including the crank dynamo, solar energy, rechargeable Ni-MH battery, Micro-USB port, DC-in jack etc., to ensure this radio stays powered. Not only that, it has a built-in a power mode selector, input and output setting switches and USB output port for charging cellphones and other devices to help users respond to emergencies.

In summary, this KA500 Voyager Emergency Radio is designed for both daily use as well as emergency preparedness applications.

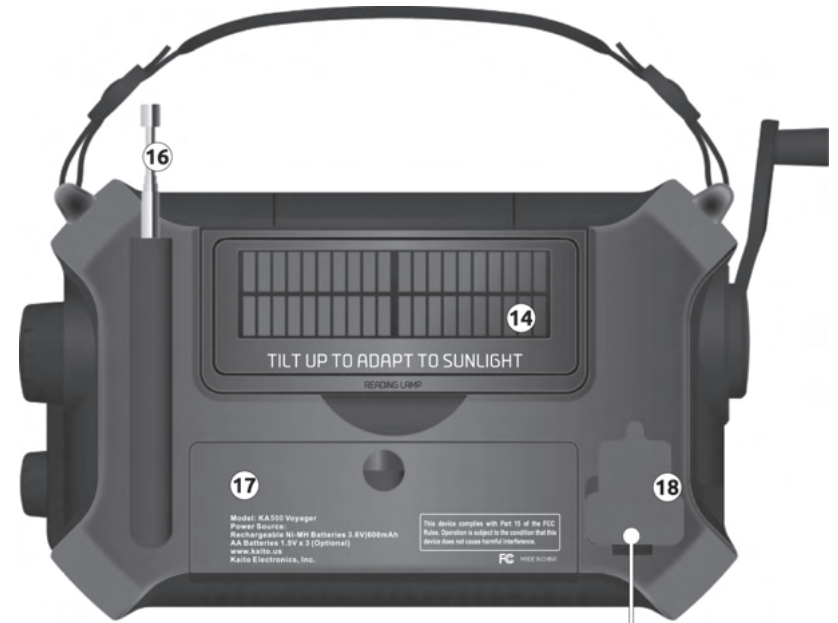
Features

- AM | FM | Shortwave | NOAA Weather World Band Radio
- NOAA Local Weather Alert
- Analog Tuning and Pointer Display System
- LED Flashlight
- Red 'SOS' Alert Light
- Bright 5-LED Adjustable Tilt Angle Reading Lamp
- Adjustable Tilt Angle Solar Panel
- Dynamo Crank for Emergency Charging
- Multiway Daily and Emergency Powered Modes
- Powered Modes Selector
- Unique Portable Soft Strip Handle
- Straight Pull Antenna
- Ø3.5mm Earphone Jack for Private Listening
- Micro-USB and DC-in Charging Interface for the Radio
- USB Power Output Port for Cellphone or Other Devices
- Power Input or Output Switch
- Backlight Illumination
- Charging Indicator
- Low Battery Indicator
- Tuning Indicator
- NOAA Weather Alert Indicator
- Built-in Rechargeable Ni-MH Battery
- Available AA Batteries

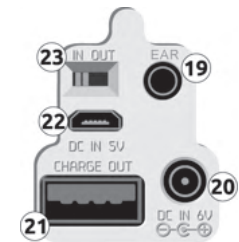
Schematic Diagram



- 1 Power Switch, Power Source and Weather Alert Function Selector
- 2 Band Selector
- 3 NOAA Weather Band Channels Selector
- 4 Tuning Knob
- 5 Sound Volume Adjustment Knob
- 6 Analog Tuning Panel
- 7 Tuning Pointer
- 8 LED Reading Lamp, 'SOS' Alert light, Flashlight and Backlight Illumination Slide Selector
- 9 Charging, Tuning and NOAA Weather Alert Warning Indicator
- 10 Low Battery Capacity Indicator
- 11 High Battery Capacity Indicator
- 12 Built-in Inner Magnetic Speaker
- 13 Dynamo Crank Handle
- 14 Solar Power Panel



- 15 Portable Soft Strip Handle
- 16 Straight Pull Antenna
- 17 Built-in Rechargeable Ni-MH Battery and AA Batteries Compartment
- 18 Input and Output Functions Dock
- 19 Ø3.5 mm Stereo Earphone Jack
- 20 Ø¼" DC-in Input Charge Jack
- 21 USB Output Charge Port



- 22 Micro-USB Input Charge Port
- 23 Power Input and Output Switch



- 24 Portable Soft Strip Handle Fixing Rod
- 25 LED Flashlight and Red 'SOS' Alert Flash
- 26 Bright 5-LED Reading Lamp



Batteries Installation



CAUTIONS!

When using this radio for the first time, according to this user's manual, you need to install the built-in Ni-MH battery correctly or purchase some extra AA batteries and install it properly.



WARNINGS!

Please use the Kaito® approved rechargeable Ni-MH battery to power this radio. This radio comes with a 3.6V rechargeable Ni-MH battery as the radio's emergency power.

Do not use any unauthorized battery. Using other unqualified or wrong batteries will affect the normal operation of the radio and may cause fire or even explosion.

When the built-in Ni-MH battery life is significantly reduced or the battery body is protruding or deformed, please immediately replace it with a new Ni-MH battery.

To extend operation time for everyday use as well as emergency preparedness, it's recommended to always have both Ni-MH rechargeable battery pack and AA batteries installed in the battery compartment. The built-in rechargeable Ni-MH battery is installed in the battery compartment by default, and it is disconnected from the radio during transportation and storage.

Before using for the first time, you need to connect the built-in rechargeable Ni-MH battery to the battery socket in the battery compartment.

Install built-in rechargeable Ni-MH battery

Open the **batteries compartment** 17 cover on the backside of the radio, remove the built-in rechargeable Ni-MH battery, connect the plug of the built-in rechargeable Ni-MH battery to the power socket correctly according to the above diagram, and put the battery back to the original position to complete the built-in rechargeable Ni-MH battery installation.



Then setting the **power switch and power source selector** ① to the SOLAR/CRANK /DC position to select the built-in rechargeable battery as the power source.



Install AA batteries (Sold Separately)

This radio also takes 3 AA batteries as its power source. Place 3 AA batteries into the **batteries compartment** ⑱ according to the polarity markings indicated inside the **batteries compartment** ⑱ to make sure the batteries are not reversed.

Always use the same type of AA batteries, preferably made by the same manufacturer. And do not mix new and used batteries. Close the batteries cover correctly.



Then setting the **power switch and power source selector** ① to the BATT position to select the AA batteries as the power source.



WARNINGS!

An incorrectly installed battery may be short-circuited or charged, causing the battery temperature to rise rapidly, causing a hazard. Never charge a non-rechargeable dry battery.

Power Source Selection

The KA500 Voyager Emergency Radio has 3 selections for different power sources including AA batteries, rechargeable Ni-MH battery pack and external power adapter or NOAA weather alert modes. Locate the 3-way **Power Source Selector** ① switch at the lower right corner of the front panel and turn it to select your preferred power source.



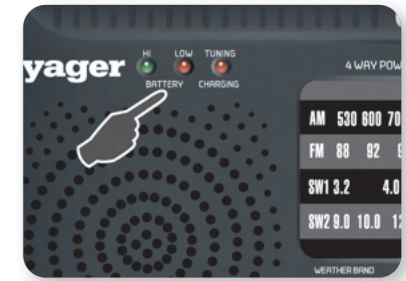
BATT Mode: Use the AA batteries as radio's power supply.



CAUTIONS!

When there's no AA batteries installed or the batteries are incorrectly installed, the radio will not power on when the switch is turned to the BATT position.

When the placed AA batteries has enough power, the green **high battery capacity indicator** ⑪ will lit. Otherwise, the red **low battery capacity indicator** ⑩ will lit, indicating that the AA batteries power is low.



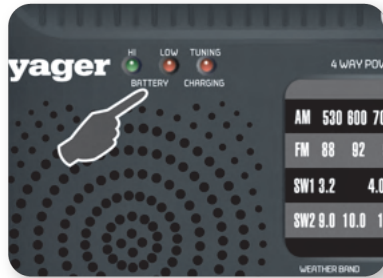
WARNINGS!

When the radio uses only AA batteries as the power source, some emergency functions such as crank power generation, solar emergency power, and external adapter charging be disabled.

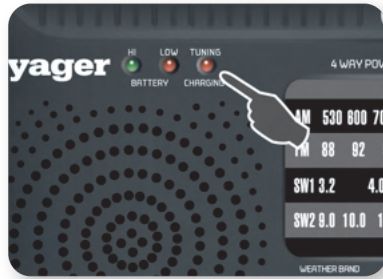
SOLAR/CRANK/DC Mode: Use the built-in rechargeable Ni-MH battery pack as radio's power supply. When the radio working in the SOLAR/CRANK/DC powered mode, this radio will be applied to all functions. Frequently charge the built-in rechargeable Ni-MH battery and maintain enough power to handle possible emergencies.

When the built-in rechargeable Ni-MH battery has enough power, the green **high battery capacity indicator** 11 will lit.

Otherwise, the red **low battery capacity indicator** 10 will lit, indicating that the Ni-MH battery power is low, and needs to be charged in time.



Regardless of which method is used to charge the radio, the green **charge indicator** 9 will lit, indicating that charging is in progress until the charge stops.

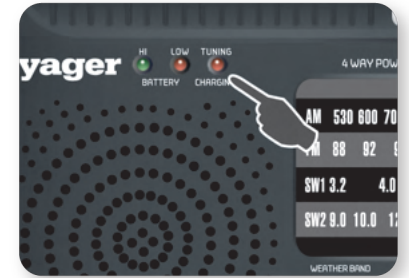


NOAA WEATHER ALERT Mode: Use the built-in rechargeable Ni-MH battery pack as radio's power supply. And let the radio enter the NOAA WEATHER ALERT working mode.



NOAA Weather band is a service broadcast of the U.S. Government and is available in all 50 states, Puerto Rico and the U.S. Virgin Islands.

When the radio working in the NOAA WEATHER ALERT mode, this radio's red **NOAA WEATHER ALERT warning indicator** 9 will flash to alert the user.



Power On | Off

Using the **power switch and power source selector** 1 to set to any of the power modes of operation, the radio will be turned on.

Turning the **power switch and power source selector** 1 to the OFF position will turn off the power.



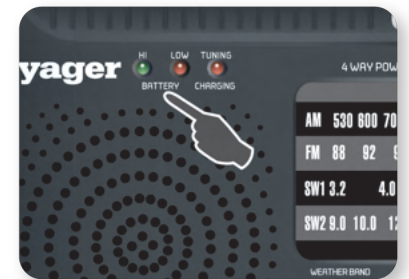
Batteries Status

When using the built-in rechargeable Ni-MH battery pack or AA batteries as the power source, you can judge the approximate power by observing the **high battery capacity indicator** 11 and **low battery capacity indicator** 10 .



CAUTIONS!

Always charge the radio or replace the new AA batteries, making sure the radio has enough power to handle possible emergency situations.



Charging the Built-in Rechargeable Ni-MH Battery

When charging the Ni-MH battery pack, please use a Kaito approved power adapter, such as a 5V USB wall power adapter or a 6V AC|DC wall adapter. External power adapters can be purchased from Kaito Electronics, Inc.



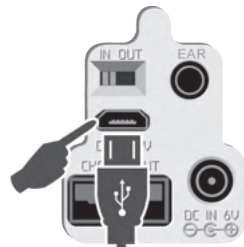
WARNINGS!

Improper use or use of an unqualified external power adapter will result in the radio not working or damaged and may cause a fire or explosion hazard.

Charging by Universal USB Power Adapter (Not Included)

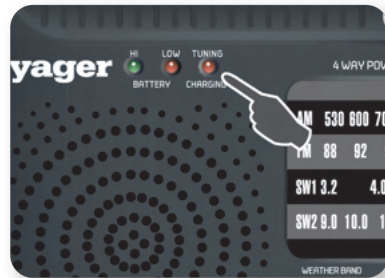
Use an universal USB power adapter (DC 5V USB port) to charge the radio.

1. Please make sure the built-in rechargeable Ni-MH battery pack is properly installed. And set the **power source selector 1** to the SOLAR/CRANK/DC position correctly.
2. Use the attached Micro-USB charge cable to properly connect the universal USB power adapter, and then properly connect the Micro-USB plug to the **Micro-USB charging input port 22** on the **input and output functions dock 18** of rear of the radio.



Micro-USB Plug

3. While charging, the green **charging indicator 9** will lit, indicating charging is in progress.
4. It's recommended to charge 3 - 4 hours each time to ensure that the built-in rechargeable Ni-MH battery pack is fully charged. Then disconnect the adaptor from the radio.



Charging by Kaito AC Power Adapter (Optional)

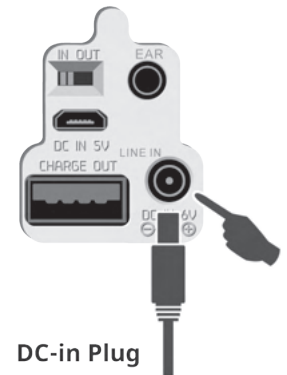


CAUTIONS!

In the different retail versions of this product, our available accessories may be different, please contact us for more detailed configuration options.

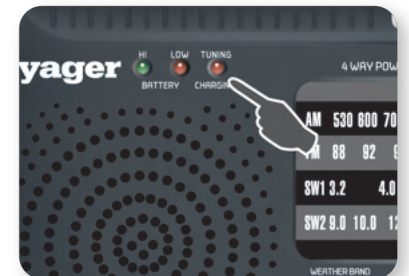
1. Use a specified Kaito AC power adapter (DC 6V, DC-in Plug) to charge the radio. Please make sure the rechargeable Ni-MH battery pack is properly installed. And set the **power source selector 1** to the SOLAR/CRANK/DC position correctly.
2. You can charge the radio with a specified type of Kaito AC power adapter. Correctly insert the DC-in connector for the AC adapter into the **DC-in input charge jack 20** on the **input and output functions dock 18** of rear of the radio.

For more information please contact us or visit our website about the kaito AC power adapter in our website: www.kaito.us.



DC-in Plug

3. While charging, the green **charging indicator 9** will lit, indicating charging is in progress.
4. It's recommended to charge 3 - 4 hours each time to ensure that the built-in rechargeable Ni-MH battery pack is fully charged. Then disconnect the adaptor from the radio.



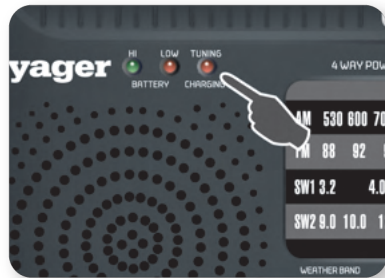
Charging by Personal Computer's USB Port

1. Correct connect the radio's **Micro-USB input charge port** 22 to the personal computer's USB port with included the Micro-USB charge cable. Then sets the **power source selector** 1 to the SOLAR/CRANK /DC position correctly.
2. When your personal computer is running, it powers the radio through the USB port, the ability to charge and the amount of time will depend on the performance of the PC's USB port.



Micro-USB Plug

3. While charging, the green **charging indicator** 9 will lit, indicating charging is in progress.
4. It's recommended to charge 3 - 4 hours each time to ensure that the built-in rechargeable Ni-MH battery pack is fully charged. Then disconnect the connect cable from the radio.



CAUTIONS!

Because alternating current can interfere with the radio reception signal, it is not advisable to use the AM, Shortwave or Longwave band when charging. Please remove the built-in rechargeable Ni-MH battery pack if the radio is not used for an extended period of time.

Charging by Crank Dynamo Power

In some emergency situations caused by the weather or other reasons, the AC power is not accessible or a replacement battery is not available, you can use the crank dynamo's emergency power supply for the radio.

1. To get started, set the **power source selector** 1 to the SOLAR/CRANK/DC position.



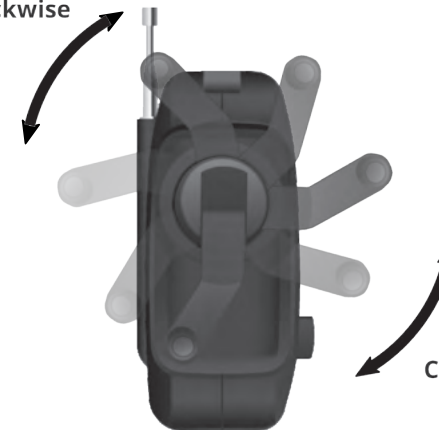
2. Pull out the **dynamo crank handle** 13 from its recessed holder at side of the radio.



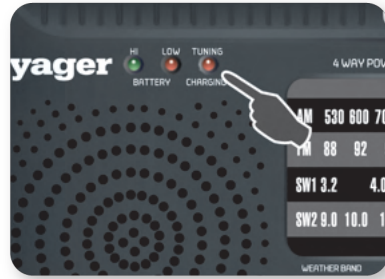
3. Charging built-in rechargeable Ni-MH battery pack:

Turn the **dynamo crank handle** 13 on the clockwise or reverse direction at a steady speed to generate power, to charge the built-in rechargeable Ni-MH battery pack, the green **charging indicator** 9 will lit on front panel of the radio.

Clockwise



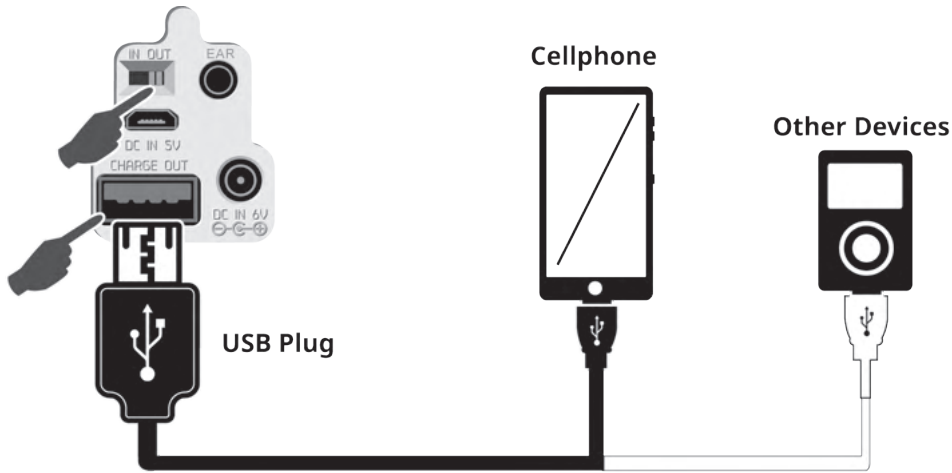
Counterclockwise



4. Charging external USB devices:

Connect your cellphone or other devices with the **USB output charge port 21** on rear of the radio via charge cable. And set the **power source selector 1** to the SOLAR/CRANK/DC position.

Next set the **power input and output switch 23** to the OUT position, the radio will enter the external output power mode.



Then turn the **dynamo crank handle 13** to charge the cellphone or other devices for emergencies.

Observe that the **charge indicator 9** is lit, indicating that emergency charging is in progress.

Before this, make sure your cellphone or other devices are using DC 5V charging voltage.



CAUTIONS!

When the **power input and output switch 23** is set at the "OUT" position, it's not recommended to listen the radio.

The ability of the radio to charge external devices is limited by the condition of the built-in rechargeable Ni-MH battery, please use it properly in possible emergency situations.

Charging by Solar Power Panel

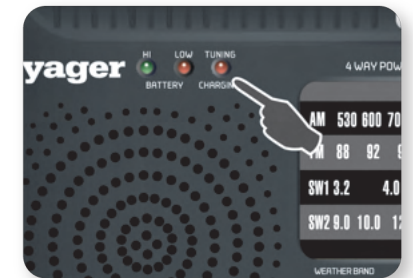
The **solar power panel 14** on the backside of the radio can be adjusted at different angles.

It converts the energy contained in sunlight into electrical energy by photoelectric conversion and charges the radio's rechargeable battery pack in case of an emergency when AC power or a replaceable battery are not accessible.

Please note the solar cells have very limited output power, which means it will take days to fully charge a depleted battery.

Put the radio in strong direct sunlight, and turn off the power, set the **power input and output switch 23** to the IN position, and set the **power source selector 1** to the SOLAR/CRANK/DC position, the solar panel will charge the built-in rechargeable Ni-MH battery pack.

but it may not be noticeable because this is a very slow process. Room lighting cannot be used to charge the radio. During the solar charging of the battery, the **charging indicator 9** will lit.




CAUTIONS!

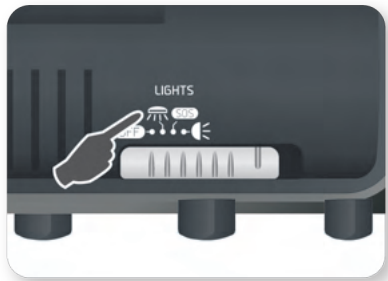
In the sunlight, solar power panels will automatically receive solar energy and store it in the rechargeable Ni-MH battery pack. The tilt angle of the solar panel can be adjusted to different angles to maximize sun exposure and optimize the battery charging process.

Using the Bright 5-LED Reading Lamp

The **5-LED reading lamp** 26 is located on the backside of the **solar power panel** 14. First, adjust it to your desired tilt angle, and then toggle the **slide selector** 8 on the top of the radio to the ☰ position, this reading lamp will turn on.

This reading lamp uses a high-brightness LED light with lower energy consumption than incandescent bulbs, and it integrates the crank dynamo, solar panel, rechargeable Ni-MH battery pack and AA batteries. The reading lamp is ideal for outdoor or emergency use.

It features a unique design with continuously adjustable tilt angle bright lighting and low power consumption to ensure a satisfactory user experience.


CAUTIONS!

The use of 5-LED reading lamp is independent, its operation will not affect the radio's other features.

The 5-LED reading lamp's usage time depends only on the built-in rechargeable Ni-MH battery and AA batteries power and charging conditions.

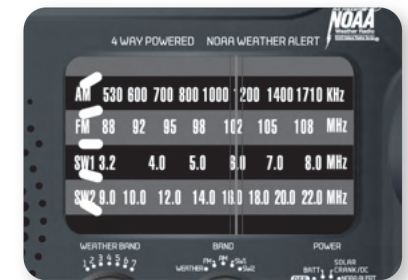
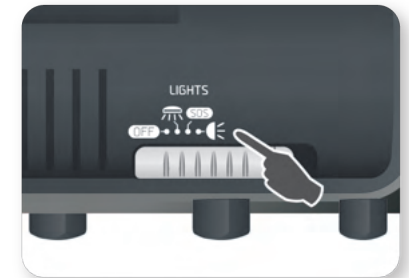
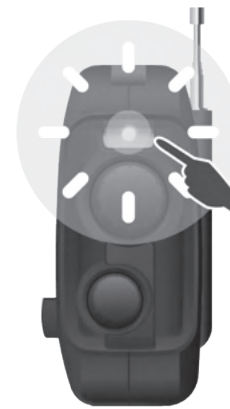
Using the LED Flashlight

On top of the radio, toggle this **Slide Selector** 8 to the ☰ position to turn on the **LED flashlight** 25. This flashlight uses a LED light with lower energy consumption than incandescent bulbs, and it integrates the crank dynamo, solar power panel and built-in rechargeable Ni-MH battery pack or AA batteries.

While the flashlight is on, the **analog tuning panel**

6 will also be illuminated by a built-in LED light.

The flashlight is ideal for dark or emergencies use.


CAUTIONS!

The use of LED flashlight is independent, its operation will not affect the radio's other features.

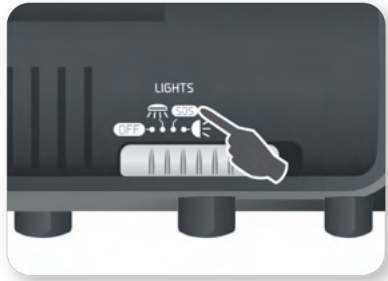
The LED flashlight's usage time depends only on the built-in rechargeable Ni-MH battery pack and AA batteries power and charging conditions.

Using the Red 'SOS' Alert Flash

On top of the radio, toggle this **Slide Selector** 8 to the SOS position to turn on the **red 'SOS' alert flash** 25.

This 'SOS' alert light uses a flash LED light with lower energy consumption than incandescent bulbs, and it integrates the crank dynamo, solar power panel and built-in rechargeable Ni-MH battery pack or AA batteries.

The red 'SOS' alert flash is ideal for dark or emergencies use.



CAUTIONS!

The use of 'SOS' alert flash is independent, its operation will not affect the radio's other features. The red LED flash's usage time depends only on the built-in rechargeable Ni-MH battery pack and AA batteries power and charging conditions.

Operation the Radio

Select your preferred power source and turn on the radio by using the **power source selector 1**.



Radio Band Selection

When the radio is on, use the **band selector 2** to choose different radio bands, such as AM, FM, Shortwave or NOAA Weather band.



WARNINGS!

Because of the interference, it is not recommended to use the radio in the AM, Shortwave band when the radio is charged by an external universal USB charger or AC power adapter.

Use the Straight Pull Antenna

When listening to the FM, Shortwave or the NOAA Weather band, please extend the **straight pull antenna 16** to optimize the reception. This antenna only works when listening to the FM, Shortwave or NOAA Weather band, adjust the length of the antenna according to the signal intensity to achieve optimal reception.



Use the Internal Iron Oxide Bar Antenna

The radio uses its internal iron oxide bar antenna to receive the AM signals. Therefore it won't be necessary to use the straight pull antenna. To improve radio's AM band reception, try to change the radio's location or adjust its orientation.

It's better to use it near a windows or open space, in order to receive better signals.

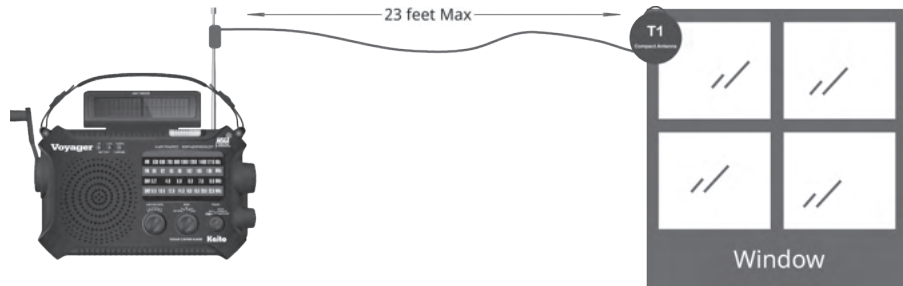


Use the T1 External Compact Antenna (Optional)

An external antenna (not included) may also be used to further improve reception on FM, shortwave or NOAA weather band. The T1 external antenna made by Kaito is sold separately on www.kaito.us.

When listening to the FM, Shortwave or NOAA Weather band of the radio stations indoors, connect this T1 external antenna to the radio to enhance signal reception.

Especially when using the radio's NOAA ALERT function indoors, using this T1 external antenna with the radio together will significantly improve the ability to receive weather forecast warnings.

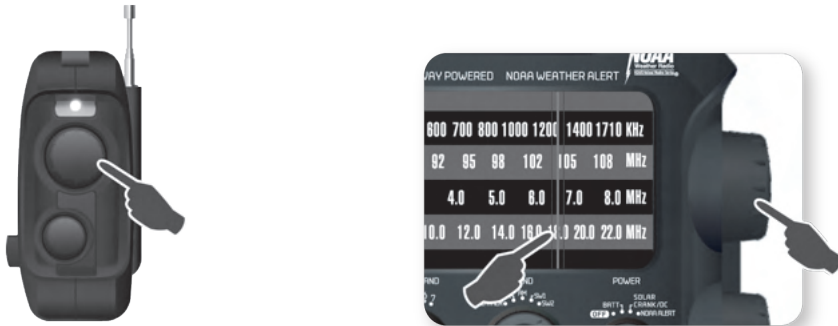


The external antenna is for indoors only. Avoid interference of the AC current when using an external antenna.

Radio Station Tuning

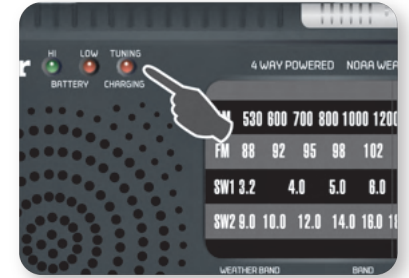
Rotate the **tuning knob 4** to search for a radio station.

In tuning, follow the **tuning pointer 7** and refer to the frequency value of the scale on the **tuning panel 6** in respective band until you locate the radio station to listen to.



After tuning and receiving the broadcast station signal, turn the **tuning knob 4** again slightly to observe that the radio's **tuning indicator 9** is lit, indicating that the received broadcast station signal is strong enough.

Otherwise, the received radio station signal is weak.



When attempting to tune in radio stations, stay away from electrical equipment and AC power disturbances. Optimize the use of antenna to improve signal reception. When tuning the radio indoors, stay near the windows for better reception. The AC current can interfere with the radio reception, please use batteries to power the radio while tuning.

Adjust the Sound Volume

This radio's **sound volume adjustment knob 5** is located below the right side.

Rotate the control knob to increase or decrease the radio's volume to suit your own listening level.

Turn the control knob clockwise to increase the volume level. Turn the control knob counterclockwise to decrease the volume.



Excessive volume levels may impair hearing. Maintain proper volume to avoid possible hearing damage.

NOAA Weather Band Operation

When the radio is on, using the **band selector** ② to the WEATHER position to select reception the NOAA Weather band broadcasting.



Then use the **NOAA Weather band channels selector** ③ to select the local channel based on your region.

To improve reception, extend the telescopic antenna or adjust the radio's location or orientation.



NOAA Weather Band Frequency Table:

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



NOAA Weather band is a service broadcast of the U.S. Government and is available in all 50 states, Puerto Rico and the U.S. Virgin Islands.



CAUTIONS!

In this band, you can only use the **NOAA Weather band channels selector** ③ to select the radio receive frequencies from CH1 to CH7. The rest of the tuning modes are invalid.

NOAA Weather Alert Function Operation



NOAA Alert allows you to set the radio to a standby mode in which the radio will turn on automatically if it picks up an emergency alert signal from your local NOAA station.

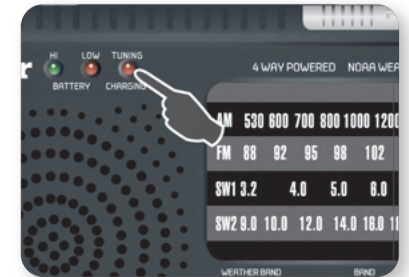
While the radio is operating on NOAA weather band, select your local weather channel, extend and adjust the **straight pull antenna** ⑩ as well as the radio's orientation if necessary to ensure optimal signal reception.

Adjust the **sound volume adjustment knob** ⑤ to adjust the volume to your desired level output. Users are strongly advised to use the maximum level output when using the NOAA Weather Alert feature.

In the NOAA Weather band working state, set the **power source selector** ① to the NOAA ALERT position.



This red NOAA Weather alert warning indicator will begin to flash on and off, indicating that the radio has entered the NOAA Weather Alert mode of operation.



It is recommended to use the optional AC adapter to power the radio when you turn on the NOAA Weather Alert function.

When the National Weather Service issues an emergency warning, the radio will automatically turn on and play the weather emergency broadcast.

To disable Weather alert function, turn the **power source selector** ❶ to a different position.



WARNINGS!

Before you use the NOAA Weather ALERT feature, make sure the radio volume is set at your desired level.

Avoid using the wrong volume setting that may cause the weather warning alert signal not to be received.

Make sure the radio is properly receiving local Weather broadcast signals when using the NOAA Weather Alert feature. Check that the radio has sufficient power before using the NOAA Weather Alert feature.

Earphone Jack

The radio is equipped with a **Ø3.5 mm stereo earphone jack** ❶ on the **input and output functions dock** ❷ of the rear side, which supports headphones for private listening.



WARNINGS!

Do not listen to the radio with the headphones for a long time. Do not use excessively high volume when listening to the radio with headphones.



Important Safety Information



WARNINGS!



CAUTIONS!

Please read the user's manual before first use of the radio.

If the radio is not used for a long period of time, remove all the AA batteries to prevent potential damage due to possible battery leakage.

Do not keep the radio in an environment with a temperature over 140°F because characteristics of the internal parts may be adversely affected by heat, especially never leave the radio in a car and exposed to direct sunlight for a long period of time. The radio's shell may become deformed and may result in deterioration of the performance.

Do not use benzene thinner or any abrasive powder to clean the radio's shell. Wipe it with a soft cloth moistened with a mild soap and water solution.

To prevent electric shock, do not open the radio's case. Only qualified personnel may carry out repairs.

Do not place the radio in water, or close to fire.

Please do not allow children access to the radio.

Since a strong magnet is used for the speaker, keep magnetized commuter passes, credit cards, recorded tapes, watches etc. away from the radio. The speaker magnet in the radio may damage them.

Do not place the radio near strong magnets such as those used in amplifier, television set, speaker boxes etc. as these may cause the frequency to drift.

Do not drop or give the radio a strong shock, because the product is composed of precise parts.

When listening in a train, car or building, use the radio near a window to obtain the best possible reception. Reception may be difficult in a tunnel or subway. Also note that operating the radio on a metal object may adversely affect reception.

Specifications

Frequency Range:

FM Band: 87 MHz - 108 MHz

AM Band: 530 kHz - 1710 kHz

SW1 Band: 3.2 MHz - 10.0 MHz

SW2 Band: 10.0 MHz - 22.0 MHz

Weather Band: CH1 162.400 MHz

CH2 162.425 MHz

CH3 162.450 MHz

CH4 162.475 MHz

CH5 162.500 MHz

CH6 162.525 MHz

CH7 162.550 MHz

Noise Limit Sensitivity:

FM ≤ 20 μ V

AM ≤ 2.5 mV/m

SW ≤ 30 μ V

Earphone Jack: $\varnothing 3.5$ mm

Speaker: $\varnothing 2\frac{1}{2}$ inches Inner Magnetic

Output Power: 200 mA Max.

Charge Interface:

Micro-USB Port: DC 5V

External DC-in $\varnothing \frac{1}{4}$ " Jack: DC 6V | 200mA

Power Source: Built-in Rechargeable Ni-MH Battery 3.6V

AA Batteries 1.5V x 3 (Not Include)

External Adapter DC 6V | 200mA (Optional)

Dimensions(Approx): 8 (L) x $2\frac{1}{2}$ (W) x 5 (H) inches

Weight(Approx): 1 $\frac{1}{4}$ lbs (Included Built-in Rechargeable Ni-MH Battery)