



KA900 Voyager MAX Emergency Radio

AM | FM | Shortwave | NOAA Weather Band Radio

User's Manual

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Introduction

This KA900 Voyager MAX Emergency Radio is a multi-functional music machine. It features stereo radio, Bluetooth speaker, MP3 player with Micro-SD card, recorder and scheduled time recorder, flashlight, reading lamp, cranking dynamo, solar panel, NOAA weather alert, alarm clock, sleep timer, equalizer, hand strap and more.

It is 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 and so on.

It has multiway power including the crank dynamo, solar energy, rechargeable lithium battery, Micro-USB port, DC-in jack etc., to ensure this radio stays powered.

This radio has built in a bright LED flashlight and a 5-LED reading lamp with adjustable tilt angles and a large solar panel, making full use of solar energy or user's environment for optimal lighting.

It comes with dual high-quality speakers to provide good quality stereo radio listening, when working in the MP3 player or Bluetooth playback, it also supports excellent two-channel audio output. Not only that, it has the sound equalizer, variety of loop mode selection, lyrics display, multi-language display, support for up to 32G memory capacity, manages up to 9999 music tracks and more functions.

It has a built-in microphone and the recorder function, support internal radio and external voice recording, immediate recording, time scheduled recording or more.

It has a built-in USB output port for charging cellphones and other devices to help users respond to emergencies.

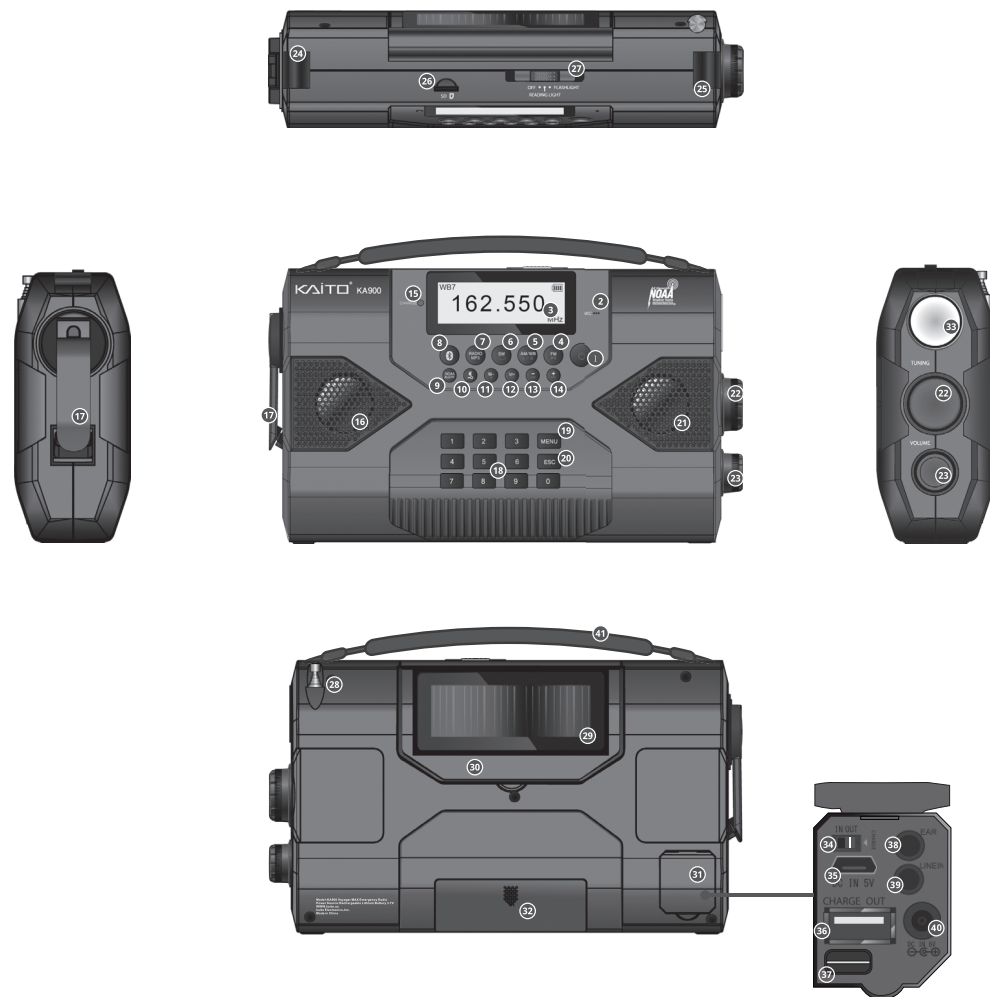
It supports E-book function, using a built-in text browser to read the .txt document stored on the Micro-SD card, such as emergency contacts and memos, etc.

In summary, this KA900 Voyager MAX Emergency Radio is designed for both everyday use as well as emergency preparedness applications.

Product Features

- AM|FM|Shortwave|NOAA Weather Band Radio
- Stereo Dual Speakers
- Bluetooth Connection with Cellphone or Other Devices
- MP3 Player with Micro-SD Card and Equalizer
- NOAA Local Weather Alert
- Built-in Microphone for Voice Recording
- Bright 5-LED Adjustable Tilt Angle Reading Lamp
- Bright LED Flashlight
- Adjustable Tilt Angle Solar Panel
- Dynamo Crank for Emergency Charging
- Multi-Way Powered Mode
- Built-in 18650 Rechargeable Lithium Battery
- 5 Tuning Modes: ATS, Auto, Manual, Keypad Entry or Memory
- Numeric Keypad To Enter the Tuning Frequency or Music Tracks
- Backlit LCD Display with Adjustable Time
- Variety of Audio Loop Playback Modes
- Mute Function
- Key Lock Function to Preserve Settings
- Alarm Clock
- Sleep Timer
- Battery Strength and Charging Indicator
- Lyrics Display Function
- Micro-USB Power Input Port for the Radio
- USB/ TYPE C Power Output Port for Cellphone or Other Devices
- Power Input or Output Switch
- Line-in Audio Input Jack
- Earphone Jack for Private Listening
- Multi-language Menu Setup

Schematic Diagram



- 1 Power Switch
- 2 Built-in Microphone
- 3 LCD Display with Backlight
- 4 FM Band | Play or Pause Button
- 5 AM or NOAA Weather Band and A ⇌ B Repeat Loop Mode
- 6 Shortwave Band and MP3 Loop Play Mode Button
- 7 Radio and MP3 Player Mode Select Button
- 8 Bluetooth Connection Button
- 9 NOAA Weather Alert Button
- 10 Mute and Lock Button
- 11 Backward Recall Stored Radio Stations and Sound Recording Function
- 12 Forward Recall Stored Radio Stations and Equalizer Function of the MP3 Player
- 13 Backward Progress Button
- 14 Forward Progress Button
- 15 Charging LED Indicator
- 16 Built-in Right Speaker
- 17 Dynamo Crank Handle
- 18 Numeric Keypad Buttons from 0 to 9
- 19 MENU Button
- 20 ESC Button
- 21 Built-in Left Speaker
- 22 Digital Tuning Dial Knob
- 23 Sound Volume Control Knob
- 24 Right Hand Strap Buckle
- 25 Left Hand Strap Buckle
- 26 Micro-SD Memory Card Slot
- 27 Reading Lamp and Flashlight Slide Switch
- 28 Straight Pull Antenna
- 29 Solar Power Panel
- 30 Reading Lamp and Solar Panel Module
- 31 Input and Output Function Dock
- 32 Built-in 18650 Rechargeable Lithium Battery Compartment
- 33 Bright LED Flashlight
- 34 Power Input and Output Switch
- 35 Micro-USB Input Charge Port
- 36 USB Power Output Charge Port
- 37 TYPE C Power Output Charge Port
- 38 Ø3.5mm Stereo Earphone Jack
- 39 Ø3.5mm Line-in Audio Input Jack
- 40 Ø5.0mm DC 6V DC-in Input Charge Jack
- 41 Removable soft hand strap

Definition of Button Operations



CAUTIONS!

There are three ways to press the button: short press, long press or press and hold. Unless explicitly stated, all operations are short press.

▶ Short press

Press the button, the function starts to work.

▶ Long press

Hold down the button for more than 2 seconds, the function starts to work, can only work effectively once.

▶ Press and hold

Press and hold the button until released, it only works with certain buttons and certain functions, such as fast forward or backward.

Button Lock and Unlock Functions



CAUTIONS!

This radio has a button lock and unlock feature that allows you to manually lock and unlock the buttons. Especially while the radio is on, you may choose to lock the buttons to preserve your settings.

▶ Lock Function

Press and hold the [] button and the screen displays the lock symbol "  ". All other buttons and knobs will be locked to prevent unintended operations.

▶ Unlock Function

When the buttons and knobs are locked, long press the [] button to unlock, the lock symbol "  " on the LCD disappears, indicating that the button lock has been unlocked. Other buttons and knobs return to normal working condition.

Power On|Off



CAUTIONS!

Use the [] button to turn on or off this radio.

▶ Power On

Long press the [] button to turn on the radio.

▶ Power Off

Short press the [] button to power off the radio.

▶ Auto Turn Off

When the radio is on the main menu interface, it will automatically shut down without any operation for three minutes.

▶ By the Sleep Timer

You can also turn off the radio automatically by setting the sleep timer. Please refer to the sleep timer section for details.

Using the Rechargeable Lithium Battery



WARNING!

Please use the Kaito® approved rechargeable lithium battery to power this radio. This radio comes with a 18650 rechargeable lithium battery as the radio's 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.

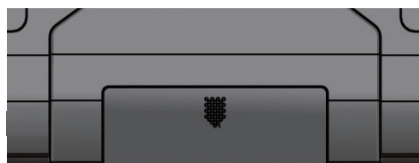
When the battery life is significantly reduced or the battery body is protruding or deformed, please immediately replace it with a new battery.

▶ Installing and Replace the Battery

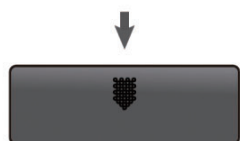
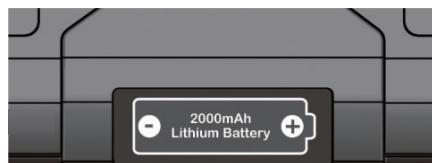
When the radio is power off, open the battery cover under the rear of the radio, remove the battery from the battery compartment.

Insert a new battery into the battery compartment according to the polarity markings. Close the battery cover.

Before

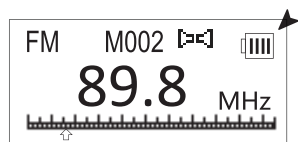


After



Battery Strength Status

The built-in rechargeable lithium battery's strength symbol is at the upper right corner of the LCD, and you can see the current battery capacity by looking at the strength symbol.



-  Full
-  Medium
-  Low
-  Exhausted

Charging the Rechargeable Lithium Battery

When charging the radio, please charge it with one of Kaito approved external power adapters, such as the DC 5V|1000mA USB adapter or 6V DC-in AC adapter.

External power adapters are purchased from Kaito Electronics, Inc., other approved DC 5V universal mobile power adapters are also available.



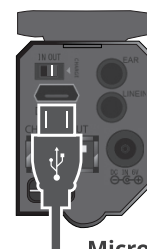
WARNING!

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.

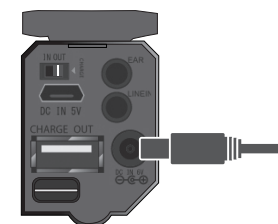
Charging by External USB Power Adapter (Not Included)

Use an external USB power adapter(DC 5V|1000mA, USB port) to charge the radio.

1. Please make sure the rechargeable lithium battery is properly installed.
2. Use the attached Micro-USB charge cable to properly connect the USB power adapter, and then properly connect the Micro-USB plug to the Micro-USB charging input port on the rear of the radio.
3. While charging, the battery strength symbol on the LCD will flow from right to left, and the red LED charging indicator will flash regularly, indicating that charging is in progress. When the battery is fully charged, the LED charge indicator will turn off and the battery strength symbol will stop flowing and appear as . Then disconnect the radio and USB adapter.



Micro-USB Plug



DC-in Plug

Charging by External AC Power Adapter (Not Included)

1. Use a specified external AC power adapter(DC 6V, DC-in Plug) to charge the radio.

Please make sure the rechargeable lithium battery is properly installed.

2. You can also charge the radio with a specified type of AC adapter such as the Kaito AD500. Correctly insert the DC-in connector for the AC adapter into the DC-in jack on the rear of the radio.

For more information please contact us or visit our website about the kaito AD500 AC power adapter www.kaito.us.

3. While charging, the battery strength symbol on the LCD will flow from right to left, and the red LED charging indicator will flash regularly, indicating that charging is in progress. When the battery is fully charged, the LED charge indicator will turn off and the battery strength symbol will stop flowing and appear as . Then disconnect the radio and AC power adapter.

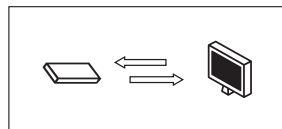
Charging by Personal Computer's USB Port

1. Correct connect the radio's Micro-USB power input port to the personal computer's USB port with the attached Micro-USB charge cable.
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.
3. While charging, the battery strength symbol on the LCD will flow from right to left, and the red LED charging indicator will flash regularly, indicating that charging is in progress. When the battery is fully charged, the LED charge indicator will turn off and the battery strength symbol will stop flowing and appear as . Then disconnect the radio and AC power adapter.
4. You can also use other powered devices that have USB port to power the radio like a power bank.



CAUTIONS!

When charging by personal computer, the USB connect symbol is shown on the radio's display. Please press the [ESC] button to exit the USB connection symbol interface, back to the main menu and reselect your desired listen mode.



Connect the PC's USB port



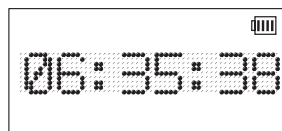
CAUTIONS!

When charging, please long press the [] button to turn off the radio.

Because alternating current can interfere with the radio reception signal, it is not advisable to use the AM or Shortwave band when charging.

Please remove the built-in rechargeable lithium battery if the radio is not used for an extended period of time.

When the radio is turned off and the external charger is used to charge the radio, the LCD will display the current time, and then turn off after a few minutes. The display time is related to the backlight timer setting of the LCD. For details, refer to the date and the backlight timer chapter.



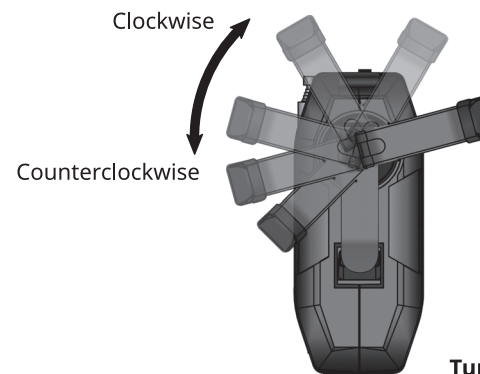
Charging by Crank Dynamo Power

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. Whether using the radio, flashlight or reading lamp, this generator can provide enough emergency power to help users.

1. To get started, pull out the dynamo crank handle from its recessed holder.

2. Charging internal battery:

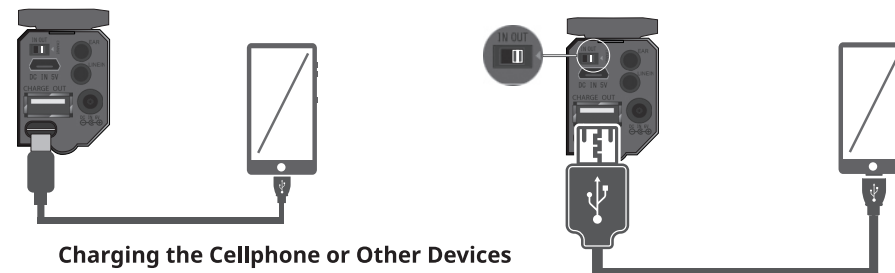
Turn the dynamo crank handle on the clockwise or reverse direction at a steady speed to generate power, to charge the rechargeable lithium battery, the red charge indicator will light on front panel of the radio.



Turn the Dyanmo Crank Handle

3. Charging external devices:

Connect your cellphone or other devices with the USB or TYPE C output port on rear of the radio via charge cable. And set the power input or output switch to "OUT" position. the radio will enter the external output power mode. Before this, make sure your phone is using DC 5V charging voltage.



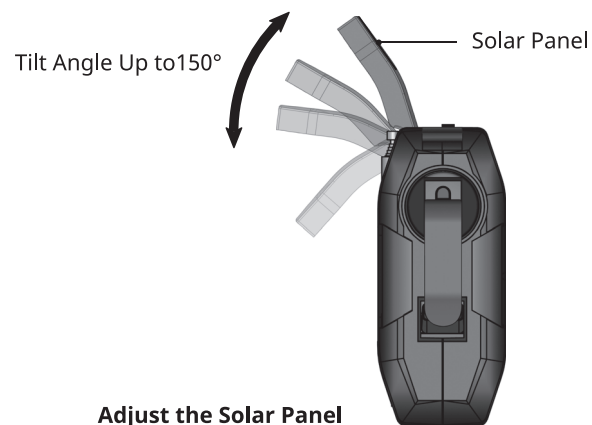
Charging the Cellphone or Other Devices

⚡ Charging by Solar Panel

The solar panel 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 in case of an emergency when AC power or a replaceable battery is 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, the solar battery will charge the battery, 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 will light up.



CAUTIONS!

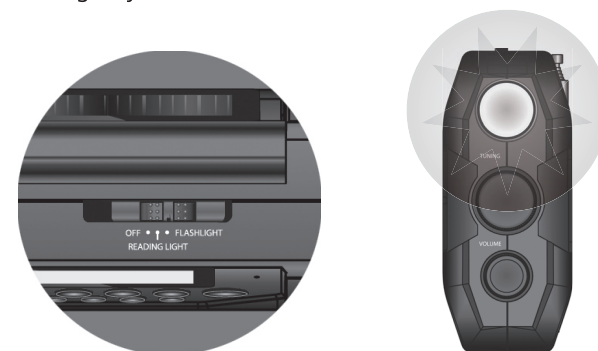
In the sunlight, solar panels will automatically receive solar energy and store it in the rechargeable lithium battery. The tilt angle of the solar panel can be adjusted to different angles to maximize sun exposure and optimize the battery charging process.

Using the Flashlight

On top of the radio, toggle this slide button to the [FLASHLIGHT] position to turn on the bright LED flashlight. And toggle the slide button back to the [OFF] position to turn it off.

This flashlight uses a high-brightness LED light with lower energy consumption than incandescent bulbs, and it integrates the crank dynamo, solar panel and rechargeable lithium battery. The flashlight is ideal for outdoor or emergency use.

Turn On the Flashlight



CAUTIONS!

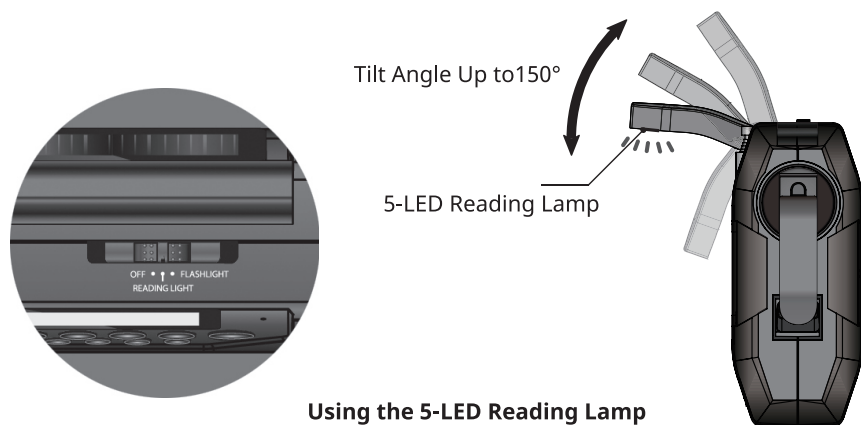
The use of flashlight is independent, its operation will not affect the radio's other features. The flashlight's usage time depends only on the battery power and charging conditions.

Using the Reading Lamp

The reading lamp module is located on the backside of the solar panel. First, adjust it to your desired tilt angle, and then set the slide switch on the top of the radio to the [READING LIGHT] position. The reading lamp is on.

This 5-LED reading lamp uses a high-brightness LED light with lower energy consumption than incandescent bulbs, and it integrates the crank dynamo, solar panel and rechargeable lithium battery. 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 bright 5-LED reading lamp's use time depends only on the battery power and charging conditions.

Charging a Cellphone or Other Devices

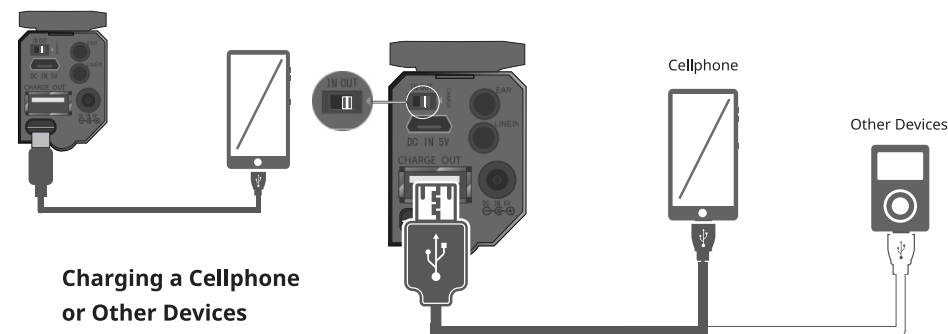
The KA900 Voyager MAX Emergency Radio has the ability to charge cellphones and other devices for use in outdoor and some emergency situations. It leverages its integrated crank dynamo, solar panel and rechargeable lithium battery for emergency powering.

Step 1.

Power off the radio, and then set the power input and output switch to the "OUT" position in rear of the radio.

Step 2.

Use the included Micro-USB charge cable or your phone's own charging cable to connect the radio with your cell phone.



The attached charge cable's Micro-USB plug suits most Android cellphones. If you have an iPhone or iPod, you should use your own USB cable or TYPE C cable that comes with your phone.

Step 3.

Choose different ways to charge your device.

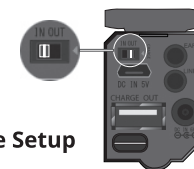
- A. Plug-n-charge: use the built-in rechargeable lithium battery charge in case of emergency.
- B. Use the hand crank dynamo in an emergency to charge the rechargeable lithium battery, which subsequently charges the connected external device.

Step 4.

- Turn the power input and output switch back to "IN" position after the charging is over to set the radio back to the default charging setting.

**CAUTIONS!**

Default Charge Setup



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

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

About the Main Menu

When you operate the radio the first time, by default, it will enter the Main Menu mode. Or press the [ESC] button to go back to Main Menu mode while the radio is in use, shown below:



If there is not any operation for 3 minutes while the radio is in the Main Menu mode, the radio will automatically enter the time display mode and turn off the power.

In the Main Menu, press the [+] and [-] button or use the tuning knob to select either of the below functions and press the [MENU] button to enter.



Radio Mode: AM|FM|Shortwave|NOAA Weather Band Radio

Bluetooth Mode : Connected Bluetooth



Music Mode: MP3|WAV|WMA Music Player



System Settings Mode: System Function Settings

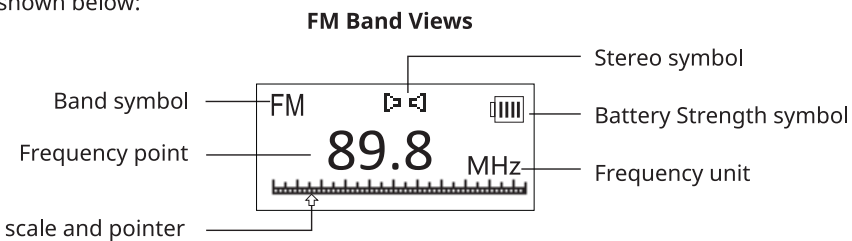
How to Play the Radio

In Main Menu, choose Radio Play mode and press the [MENU] button to listen to the radio station. The radio station's frequency will display on the LCD.

You can also press the [FM], [AM | WB] or [SW] buttons to select the radio band to listen to different broad casts, included local and remote stations or to receive the NOAA weather forecasts and warnings.

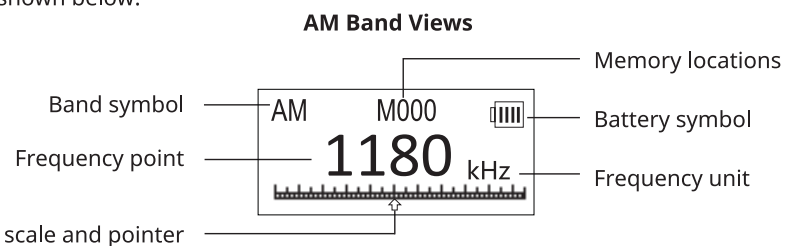
Enter the FM Band

In the radio mode, choose press the [FM] button to enter the FM band. The operation interface is shown below:



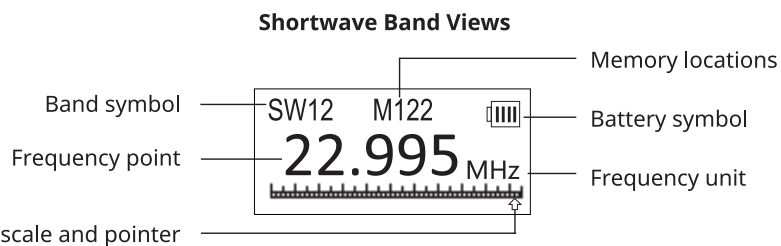
Enter the AM Band

In the radio mode, choose press the [AM|WB] button to enter the AM band, the operation interface is shown below:



Enter the Shortwave Band

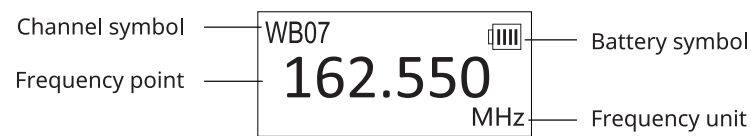
In the radio mode, press the [SW] button to enter the Shortwave band, the operation interface is shown below:



Enter the Weather Band

In the radio mode, choose press the [AM|WB] button to enter the AM band, and then press this button again to enter the NOAA Weather band. Then turn the tuning knob to select the weather channel from CH1 to CH7. The operation interface is shown below:

NOAA Weather Band Views



WARNING!

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

Choose the Radio Band

When working in the radio mode, short press the [FM], [SW] or [AM|WB] buttons to choose your desired radio band. The LCD screen will show the symbol of the radio band that you are listening to.

When you'd like to listen to the FM band, press the [FM] button to enter this band.

When you'd like to listen to the Shortwave band, press the [SW] button to enter this band.

When you'd like to listen to the AM band, press the [AM|WB] button to enter this band.

When you'd like to listen to the Weather band, repeat press the [AM|WB] button to select this band.

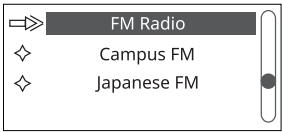
Operation in the FM Band

When the radio is working in the FM band, press the [MENU] button to enter the below sub-menu:

⇨⇨ Save	Manual save and add the current station into the memory list.
✧ Delete	Manual delete the current saved station from the memory list.
✧ Delete All	Delete all saved stations from the memory list.
✧ Auto Search	ATS function. Auto tuning and save the radio stations into the memory list.
✧ FM Radio	FM radio frequency range, from 87.0MHz to 108.0MHz
✧ Campus FM	Campus FM radio frequency range, from 64.0MHz to 108.0MHz
✧ Japanese FM	Japanese FM radio frequency range, from 76.0MHz to 90.0MHz

Select the Frequency Range

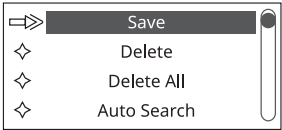
Rotate the tuning dial knob or use the [+] forward and [-] backward progress buttons to change the position of the pointer in the sub-menu to select desired the FM frequency range, and then you can press the [MENU] button to save your selection and exit the sub-menu. When you are back to the operation screen, the new FM band frequency range will take effect immediately.



You can also press the [ESC] button without altering any settings.

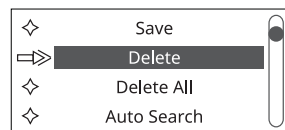
Manual Save a Radio Station

In the sub-menu, move the pointer to the "Save" position, the submenu bar will be highlighted, and then press the [MENU] button to save and add the current frequency into the memory list of the FM band.



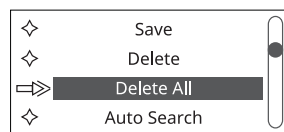
Manual Delete a Radio Station

In the sub-menu, move the pointer to the “Delete” position, the submenu bar will highlight, and then press the [MENU] button to delete the current frequency from the memory list of the FM band.



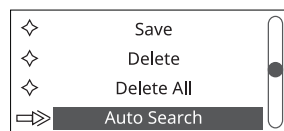
Delete All the Radio Station

In the sub-menu, move the pointer to the “Delete All” position, the submenu bar will highlight, and then press [MENU] button to delete the all radio stations from the memory list of the FM band.



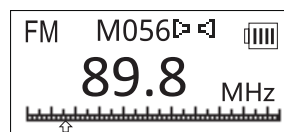
Using the ATS Function

In the sub-menu, move the pointer to the “Auto Search” position, the submenu bar will highlight, and then press the [MENU] button, the radio will automatic scan the whole FM band and save all detected stations into the memory.



About the Stereo|Mono FM Mode

When listening to the FM band, if the radio picks up strong stereo signals, this stereo symbol “[>=<]” will be shown on the LCD screen. When the radio receives weak or mono signal FM broadcasts, the mono symbol “[>]” will display on the LCD screen.



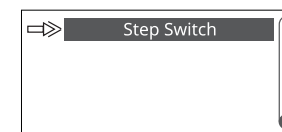
Operation in the AM Band

When the radio is working in the AM band, press the [MENU] button to enter the below sub-menu:

- ⇒ **Save** Manual save and add the current frequency point into the memory list.
- ◇ **Delete** Manual delete the current frequency point from the memory list.
- ◇ **Delete All** Delete all frequency points from the memory list in the AM band.
- ◇ **Auto Search** ATS function. Auto tuning and save the radio stations into the memory list.
- ◇ **Step Switch** AM band frequency step value set, selectable in the 10kHz to 9kHz.

Select the Frequency Step Switch

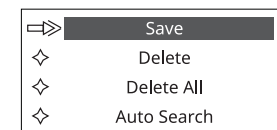
Enter the AM band, When “522”kHz appears on the LCD screen, it indicates 9kHz step is selected; When it shows “520”kHz, it indicates 10kHz steps is selected. Repeatedly press the [MENU] button to this submenu to change between 9kHz and 10kHz tuning frequency step value.



You can also press the [ESC] button, without altering any settings.

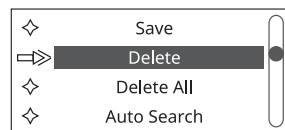
Manual Save a Radio Station

In the sub-menu, move the pointer to the “Save” position, the submenu bar will highlight, and then press the [MENU] button to save and add the current frequency into the memory list of the AM band.



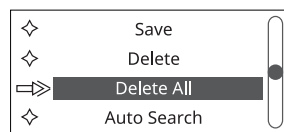
Manual Delete a Radio Station

In the sub-menu, move the pointer to the “Delete” position, the submenu bar will highlight, and then press the [MENU] button to delete the current frequency from the memory list of the AM band.



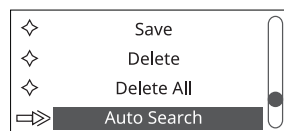
Delete All the Radio Station

In the sub-menu, move the pointer to the “Delete All” position, the submenu bar will highlight, and then press [MENU] button to delete the all radio stations from the memory list of the AM band.



Using the ATS Function

In the sub-menu, move the pointer to the “Auto Search” position, the submenu bar will highlight, and then press the [MENU] button, the radio will automatically scan the whole frequency band and save all detected stations into the memory list for easy access.

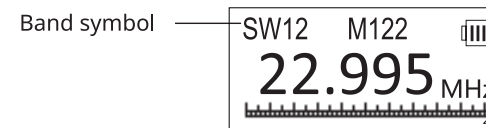


Operation in the Shortwave Band

When the radio is working in the Shortwave band, press the [MENU] button to enter the below sub-menu:

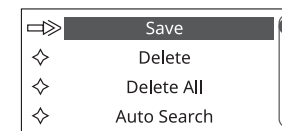
- | | |
|---------------|---|
| ⇨ Save | Manual save and add the current frequency into the memory list. |
| ◇ Delete | Manual delete the current frequency from the memory list. |
| ◇ Delete All | Delete all frequencies from the memory list in the Shortwave band. |
| ◇ Auto Search | ATS function. Auto tuning and save the radio stations into the memory list. |

When using the radio in the Shortwave band, Press the [SW] button repeatedly to select the shortwave frequency range from SW1 to SW12. Each time you press this button, the shortwave frequency range will change to the next frequency range in ascending order. You can check the current frequency range of the Shortwave band by the band symbol and frequency point on the LCD.



Manual Save a Radio Station

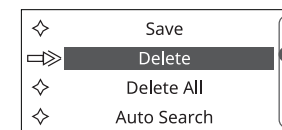
In the sub-menu, move the pointer to the “Save” position, the submenu bar will highlight, and then press the [MENU] button to save and add the current frequency into the memory list of the SW band.



You can also press the [ESC] button, without altering any settings.

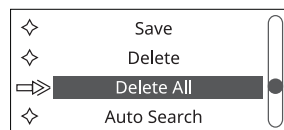
Manual Delete a Radio Station

In the sub-menu, move the pointer to the “Delete” position, the submenu bar will be highlight, and then press the [MENU] button to delete the current frequency point from the memory list of the Shortwave band.



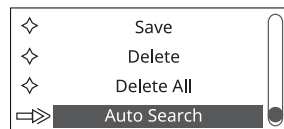
Delete All Radio Stations

In the sub-menu, move the pointer to the “Delete All” position, the submenu bar will highlight, and then press [MENU] button to delete all radio stations from the memory list of the shortwave band.



Using the ATS Function

In the sub-menu, move the pointer to the “Auto Search” position, the submenu bar will highlight, and then press the [MENU] button, the radio will automatically scan through bands from SW01 to SW12 and save all detected stations to the memory list in Shortwave band.

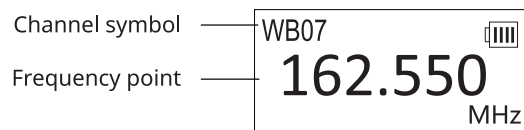


CAUTIONS!

It may take an extended period of time to complete this automatic search function in the Shortwave band. Please proceed with caution.

Operation in the NOAA Weather Band

When the radio is working in Weather band, use the tuning dial knob and the [+] or [-] buttons to select the local NOAA Weather band, from WB1 to WB7.



You can check the current frequency of the Weather band or the channel symbol on the LCD as shown on the diagram above.

Weather Band Channel Frequency:	WB1 162.400MHz	WB2 162.425MHz
	WB3 162.450MHz	WB4 162.475MHz
	WB5 162.500MHz	WB6 162.525MHz
	WB7 162.550MHz	

Use the ALERT Function in the NOAA Weather Band



CAUTIONS!

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.

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. Set the radio's band to Weather Band and tune into your local weather band station. Then press the [ALERT] button, the radio will go on automatically when there is an alert from the National Weather Service. And the “ALERT” symbol will be show on the radio's LCD display. It is recommended to use the optional AC adapter to power the radio when you turn on the NOAA ALERT function.



WARNING!

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

Avoid using the wrong volume setting to cause the weather warning alert signal not to be heard properly.

In the NOAA ALERT mode, all button functions are disabled except for the [NOAA ALERT] button. The function of the tuning dial knob will also be disabled.

To enable all the button functions again, press the [NOAA ALERT] button again.

Volume Control

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

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



Sound Volume Control Knob



WARNING!

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

How to Tune in Station

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.



CAUTIONS!

When tuning the radio indoors, stay near the windows for better reception. The AC current can interfere with the radio reception, please use the built-in rechargeable lithium battery to power the radio while tuning.

It is not recommended to use the radio in the AM or Shortwave band when charging the battery.

Select the band to listen to, then rotate the tuning dial knob or press the [+] or [-] buttons, or directly enter the frequency point via the number from the [0] to [9] buttons until you receive the desired station.

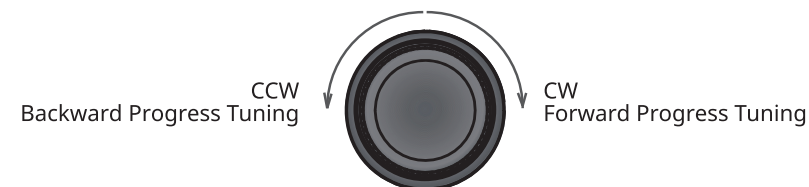
Use the Tuning Dial Knob for Tuning

In the radio mode, you can use the tuning dial knob to tune the radio stations.

Adjust the radio's volume to an appropriate level. Rotate the tuning dial knob and notice the frequency changing on the display, stop rotating when the radio receives a satisfactory station. When the rotate tuning dial knob is turning clockwise, the frequency of the radio changes in the forward progress direction. When you turn the tuning dial knob counterclockwise, the radio's frequency point changes in the backward progress direction.

When you rotate this knob slowly, the position of the tuning scale ruler pointer and the current frequency point on the LCD, will also change slowly.

When you rotate the knob quickly, the radio will automatically search for a station in either the forward progress or backward progress direction, until it is tuned to a station and played.



Tuning Dial Knob

Use the [+] Forward Progress Button or [-] Backward Progress button to Tune

In the radio mode, you can also use the [+] or [-] buttons to tuning the radio stations.

Adjust the radio's volume to an appropriate level. Short press the [+] button, the radio's frequency point will change one frequency step value at forward progress direction. Short press the [-] button, the radio's frequency point will change one frequency step value at backward progress direction. stop pressing when you receive a satisfactory station.

Long press the [+] button, the radio will automatically search for the radio station at the frequency forward progress direction, until it is tuned to a radio station. Long press the [-] button, the radio will automatically search for the radio station at the frequency backward progress direction, until it is tuned to a radio station.



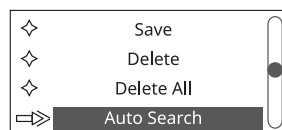
Forward Progress Button



Backward Progress button

Use the ATS(Auto Tuning Storage) Tuning

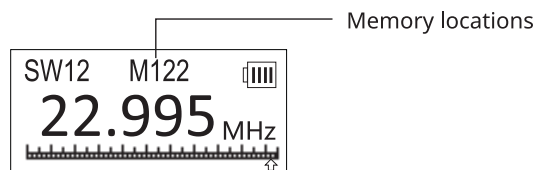
Use the auto search function in sub-menu of the band to tune and save the radio stations. Adjust the radio's volume to an appropriate level and choose your desired band.



Press the [MENU] button to enter the sub-menu and select the [Auto Search] submenu, press the [MENU] button again to start auto tuning and store all the available radio stations into memory in the AM, FM or Shortwave band. If the auto-tuned station frequency is inaccurate, use the manual tuning to find the accurate radio frequency.

When using the ATS function, it takes some time to complete the scan process, and you can observe the frequency change of the LCD screen. When the auto tuning storage function is complete, the radio returns to the M001 memory location automatically and plays the current radio station.

You can also press the [ESC] button or other buttons to exit the auto-tuning function, the radio frequency points that have been tuned and stored in the memory will be automatically saved until you perform the next auto-tuning function.



The radio's memory location capacity is as follows:

- FM band: M001 - M440
- AM band: M001 - M132
- Shortwave band: M001 - M928



CAUTIONS!

Using this auto tuning storage function will take a long time in the short wave band. When using this feature, place the radio in a position that has good reception of broadcast stations. The NOAA Weather band does not allow this function.

Memory Recall

Adjust the radio's volume to an appropriate level and choose your desired band. Press the [M+] or the [M-] buttons to recall a station stored within the memory in the radio. Press the [M+] button will follow the ascending mode and recall the radio station stored in memory and play. Press the [M-] button will follow the Descending mode and recall the radio station stored in memory and play.



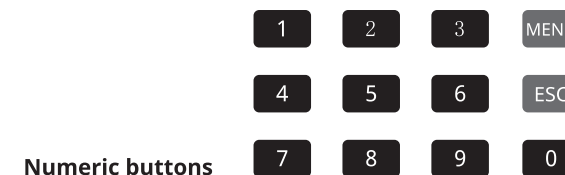
Forward Recall Stored Radio Button



Backward Recall Stored Radio Button

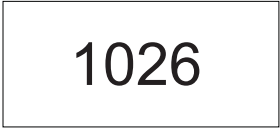
Direct Frequency Entry

Adjust the radio's volume to an appropriate level. While the radio is in AM, FM or Shortwave mode, enter the frequency value corresponding to the radio station by using the numeric buttons from the [0] to [9], and then press the corresponding band button such as the [FM], [AM] or [SW] buttons to confirm the frequency band.

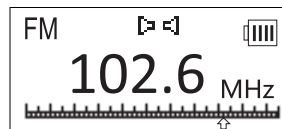


For example:

To input the frequency 102.6MHz in FM band, press the following buttons in order, the [1], [0], [2], [6] buttons, it will display on LCD screen as below,



And then press the [FM] button, the radio will be tuned directly to 102.6MHz in the FM band as shown below,



Similarly, you can also use this method at other frequencies and other bands.

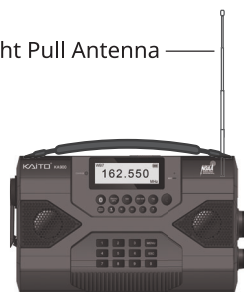
The NOAA Weather band is not applicable with this method.

Use the Antenna

Straight Pull Antenna

When listening to the FM, Shortwave or the NOAA Weather band, please extend the straight pull antenna to receive the best signal. The straight pull antenna only works when listening to the FM, Shortwave or Weather band, change the length of the straight pull antenna according to the signal intensity to get better reception.

Straight Pull Antenna



Antenna State of FM, Shortwave, Weather Band

Internal Ferrite Rod Antenna

When listening to the AM band stations, the built-in internal ferrite rod antenna works for the AM band only. Rotate the radio position to get the best reception. The radio location affects the AM reception, changing the orientation of the radio may help improve reception on the AM band.

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

Antenna State of AM Band

Internal Ferrite Rod Antenna

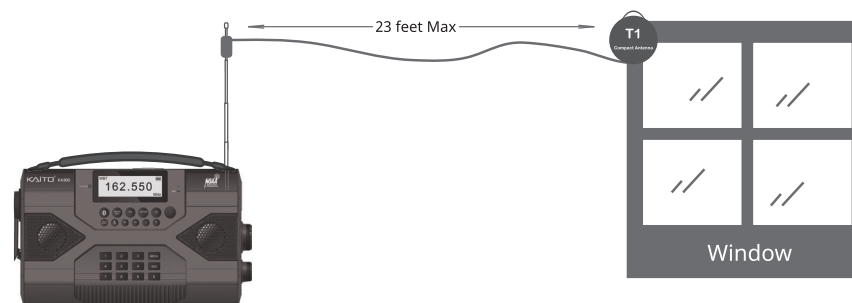


T1 External Compact Antenna(Optional)

The radio has an optional external antenna included in the package, this optional external antenna model is T1 Compact Antenna.

When listening to the FM, SW 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.



Radio with the T1 Compact Antenna



WARNING!

The external antenna is for indoors only.

Avoid interference of AC current when using an external antenna.

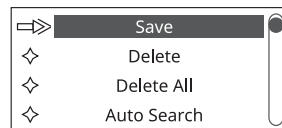
Storing the Radio Station Manually

Select your desired station, press the [MENU] button to into the sub-menu and select the [Save] submenu, press the [MENU] button again to confirm. The stored station's memory location will be stored into the memory by order of frequency point from low to high.



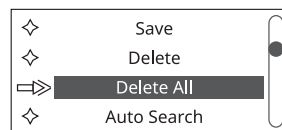
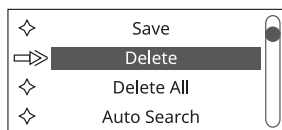
CAUTIONS!

After storing stations into the memory manually, you can use the Memory Recall buttons to find the stored station quickly. All stations stored manually will be replaced when using Auto Search(Auto Tuning Storage) and vice versa.



Delete the Single or All Memories

In the radio mode, use the memory recall function button such as the [M+] or [M-] buttons to recall the stored stations. And then press the [MENU] button to into the sub-menu, select either the [Delete] or [Delete all] submenu, then press the [MENU] button again to delete single memory or all memories in the radio.



Recorder Function

This KA900 Voyager Max radio uses its own hardware configuration and a built-in microphone, with three recording modes, namely the radio recording, external voice recording and schedule timer recording function.

Radio Recording

While listening to radio broadcast, you can record the programs by the following steps:



WARNING!

The Micro-SD card must be inserted correctly when using this recording function, the recorded file will be saved in the root directory at default.

Do not pull out or replace the Micro-SD card when recording is in progress to avoid damage.

When recording, some button functions will be disabled.

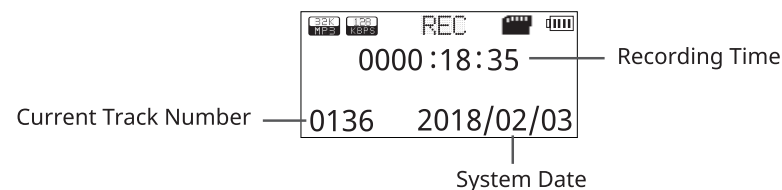
Each recording will automatically create a new series number of the music track in numerical order.

Adjust the radio's volume to an appropriate level and choose your desired band.

Tune into the radio station to record, long press the [●] button to start recording, the file will be save as .MP3 format.

In the recording, you can press the [⏸] button to pause, and press again to resume recording.

Press the [ESC] button to end and exit the radio recorder mode, the file will be saved to the Micro-SD card automatically.



Voice Recording

In any play mode except the radio mode, you can activate the built-in microphone to voice recording function by long pressing the [●] button.

While recording, please move the external audio source or voice close to the built-in microphone.

Before recording, please make sure Micro-SD card is inserted correctly, the recorded file will be saved as .MP3 format into the Micro-SD card.

Press the [ESC] button to end and exit the voice recording mode, the file will be saved to the Micro-SD card automatically.