

Kaito

OPERATION MANUAL

KA29

A radio for all

AM/FM/SW Radio

Voice and Radio Recorder

MP3 Player from USB and Micro SD Card



Thank you for purchasing Kaito KA29.
Please read the manual thoroughly before
operating and keep this book in a safe place
for future reference.

Included items:

KA29

Lithium battery

USB cable

Operational manual

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LOCATION OF CONTROLS

LOCATION OF CONTROLS



- ① Speaker
- ② Telescopic antenna
- ③ USB port
- ④ Display
- ⑤ Mini-USB port
- ⑥ Built-in MIC
- ⑦ Power button
- ⑧ Tuning knob: Rotate to tune or select
- ⑨ AUX-in jack
- ⑩ Earphone jack

LOCATION OF CONTROLS

- ⑪ Mute button
Long press to lock/unlock keys
- ⑫ Radio/MP3 mode selection
- ⑬ In radio mode: SW button, press in SW listening to change M bands
In music mode: Press to select repeat mode
- ⑭ In radio mode: AM button
In music mode: A-B repeat
- ⑮ In radio mode: FM button, press to select FM stereo/mono listening
In music mode: Play/Pause
In recording mode: Pause/Continue
- ⑯ Menu button: Press to enter menu/sub-menu or confirm
In time set mode: Press to move cursor
- ⑰ In radio mode: Frequency+
In music mode: Next song/Fast forward
- ⑱ In radio mode: Frequency-
In music mode: Preview song/Rewind
- ⑲ MICRO SD/TF card slot
- ⑳ In radio mode: M+
In music mode: Press to select equalizer

LOCATION OF CONTROLS

- ⑳ Escape button: Press to exit
In Main menu: Press to display time
In recoding mode: Press to end recording and auto store the recorded file into the memory
- ㉑ In radio mode: M-, long press to record radio
In other modes: Long press to enter MIC recording
- ㉒ V-; V+
- ㉓ NO. buttons 0~9
- ㉔ Battery compartment
- ㉕ Strap hole

DEFINITION OF KEY OPERATIONS

There are 3 operation ways of pressing the keys: short press, long press and hold on. Unless expressly stated, all the operations are short press.

Short press: press the key once, and the function starts to work.

Long press: press and hold for more than 1.2 seconds and the function starts to work, and works only one time.

Hold on: press the key and hold on till stop, the function works several times in a certain frequency, such as fast forward/backward.

BATTERY POWER SUPPLY

LITHIUM BATTERY POWER SUPPLY

Please use the lithium battery approved by Kaito to power this product. A lithium battery is attached with this product. Do not use any un-qualified battery that may cause problems or dangers such as inflammation or explosion.

INSTALLING THE BATTERY

1. Turn off the radio and open the battery cover.
2. Install the provided lithium battery according to the battery polarity.
3. Close the battery cover.

BATTERY CONSUMPTION INDICATOR



1. Full



2. Medium



3. Low




4. Exhausted

CHARGING THE LITHIUM BATTERY


External Adapter (not included)

Please use a matched adapter(5V DC/500mA, USB port) to charge the radio.


1. Install the lithium battery.


2. To charge the battery, connect the Micro-USB cable to the radio, the other end to a USB adapter.
3. While charging, the battery symbol shown on the display  moves from right to left, and stops when the battery is full charged. Then disconnect the radio and the adapter.

NOTE:




When charging, press <  > to turn on/off the radio. Alternating current can interfere the radio signal, so it is not recommended to use the radio when charging. Do not use AC adapter or computer to power the radio to play music or listen to the radio when the battery is unloaded. Please unload the battery or fully charge it once in 2 months if the radio is not used for a long time.




Charged by PC

1. Connect the radio and the computer with the provided USB cable.
2. While charging, the battery symbol shown on the display  moves from right to left.
3. The battery symbol stops moving when the battery is full charged.


NOTE: When charged by PC, a USB symbol shown on the radio's display. When Micro SD/TF card or USB drive is inserted, press <  > twice and select Music Mode to play the music.

LOCK/UNLOCK KEYS

LOCK: Long press <  /  >, all the keys except this key will be locked with the “  ” symbol shown on the display.

UNLOCK: After keys locked, long press <  /  > to unlock keys, and the “  ” symbol disappears.

POWER ON/OFF

Press the <  > button to turn on/off the radio. Auto turn off: The radio will turn off automatically in 3 minutes without any operation in Main Menu mode.

MAIN MENU

In any mode, press <EXIT> can go back to Main Menu.



In Main Menu, press <  > or <  > to select either of the below functions and press <MENU> to enter.

Radio: FM/AM/SW Radio

Music: MP3 music play mode

Text browser (Ebook): Text reading mode

System Settings

Calendar

RADIO

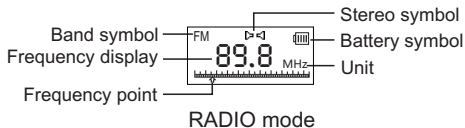
NOTE:

Press <EXIT> in Main Menu to display the time. When the time is displayed, press <MENU> to go to Main Menu.

HOW TO PLAY THE RADIO?

In Main Menu, select Radio and press <MENU> to listen to FM, the frequency shows on the display.

Repeatedly pressing <RADIO/MP3> to enter either Radio or Music Mode.



NOTE:

Due to current interference, it is not recommended to use FM radio when the radio is connected to an external adapter or a computer.

CHOOSE BANDS

In Radio Mode, press <FM/▶|▶>, <AM/ A⇌B> or <SW/↻> to select your desired band.

The display will show the band symbol that you are listening to.

When listening to SW, press <SW/↻> to change <m> bands.

FM FREQUENCY RANGE

SELECT FM FREQUENCY RANGE

When listening to FM, press <MENU> to enter the below sub-menu:

- **Save:** Store the station into memory manually
- **Delete:** Delete single memory
- **Delete all:** Delete all stored memories
- **Auto Search:** Auto tuning storage
- **Ordinary band:** 87-108MHz
- **Campus radio:** 64-108MHz
- **Japanese FM:** 76-90MHz
- **Exit**

FM STEREO/MONO SELECTION

When listening to FM, press <FM/▶|▶> to select stereo/mono listening. If [S] shows in the display, stereo listening is selected, press <FM/▶|▶> again to change to mono listening and the mono symbol [M] will show. You can not active stereo listening when the radio signal you are receiving is mono.

Suggestions:

1. Stereo listening is for strong signal broadcasts and music programs.
2. For weak signal broadcasts or voice programs, please choose mono. (Because stereo decoding may produce noises.)

9K/10K AM TUNING STEPS

When listening to AM, press <MENU> to enter the below sub-menu:

- **Save:** Store the station into memory manually
- **Delete:** Delete single memory
- **Delete all:** Delete all stored memories
- **Auto Search:** Auto tuning storage
- **Stepping switch:** When "522" appears in the display, it indicates 9K step is selected; When it shows "520, it indicates 10K steps is selected. Repeatedly pressing <MENU> to change between 9K and 10K.
- **Exit**

VOLUME / MUTE

To increase volume, press <VOL+>; To decrease volume, press <VOL->, the volume adjustment will be shown in the display. Press <ⓧ/M> to mute, press again to restore the sound.

TUNING IN STATIONS

When trying to tuning stations, please tune it outside the concrete buildings, and stay away from electrical equipment and AC power disturbances. Optimal use of the antenna improves the signal reception.

Suggestions:

When tuning indoors, stay outside like balcony and near the windows for a better reception.

AC current can interfere with the radio reception, please use lithium battery to power the radio while tuning. It is not recommended to use the radio when charging the battery.

Using telescopic antenna:

It only works when listening to FM and SW. When listening to FM or SW, change the length of the telescopic antenna according to the signal intensity to get better reception.

Using built-in antenna:

The ferrite rod antenna built-in works for the AM only, change the radio position to get the best reception. So the radio location affects the AM reception, a good direction of the radio gets you a much better reception on AM.

Six tuning methods: Manual tuning, Auto tuning, Jog tuning, Direct frequency entry, Auto search (ATS) and memory recall.

Manual tuning:

1. Turn on the radio and select [Radio] in Main Menu.
2. Adjust the volume to an appropriate level and choose your desired band.
3. Press <▶+> or <◀-> to tune into a station, frequency will change a step with each pressing, stop pressing when you get a satisfactory station.

Auto tuning:

1. Turn on the radio and select [Radio] in Main Menu.
2. Adjust the volume to an appropriate level and choose your desired band.
3. Press and hold <+> or <-> for about 2 seconds, then release to auto tune into the next available station. If the auto-tuned station frequency is inaccurate, please use manual tuning to find the accurate frequency point.

Jog tuning:

1. Turn on the radio and select [Radio] in Main Menu.
2. Adjust the volume to an appropriate level and choose your desired band.
3. Rotate <Tuning knob> and notice the frequency changing in the display, stop rotating when the radio receives a satisfactory station.

Auto search (ATS):

1. Turn on the radio and select [Radio] in Main Menu.
2. Adjust the volume to an appropriate level and choose your desired band.
3. Press <MENU> to open the sub-menu and select [Auto search], press <MENU> again to start auto tuning and store all the available stations into memory.

Memory location



Memory Locations:

FM: M001 - M440

AM: M001 - M132

SW: M001 - M928

Direct frequency entry

1. Turn on the radio and select [Radio] in Main Menu.
2. Adjust the volume to an appropriate level and choose your desired band.
3. Input the frequency numbers that corresponds to a station's frequency by using the key board, and then press the band button to enter the station you need.

Memory recall

1. Turn on the radio and select [Radio] in Main Menu.
2. Press <M+/EQ> or <M-/●> to select a station that stored within the memory.

STORING STATIONS MANUALLY

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

NOTES:

After storing stations into memory, you can use Memory Recall to find the stored station quickly.

All the stations that stored manually will be replaced when using Auto Search (ATS).

DELETE SINGLE/ALL MEMORIES

Press <MENU> in radio mode, and select either <Delete> or <Delete all>, then press <MENU> again to delete single memory or all memories.

RADIO RECORDING


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

(A micro SD/TF card or a USB drive must be inserted correctly when using this function, the recorded file will be saved in the inserted Micro SD/TF card or the USB drive)

1. Tune into the station that you want to record, long press <M-/●> to start recording, the file will be in .MP3 format.
2. Press <FM/▶|▶> to pause.
3. Press <EXIT> to end recording, the file will be saved under [Music] automatically and sorted at the bottom of the list.

NOTE:

1. While recording, some keys will be disabled.
2. If both Micro SD/TF card and USB drive were inserted before recording, the recorded file will be stored in the one that shows on the radio's display.

 - Micro-SD/TF Card

 - USB drive

MIC RECORDING

In any mode except for radio mode, you can activate the MIC recording function by long pressing <M-/●>. While recording, please get the audio source close to the built-in mic.

Before recording, please make sure a micro SD/TF card or a USB drive is inserted correctly, the recorded file will be saved in the card or the USB drive in .MP3 format.

Do not pull out or insert card or USB drive when recording is in the progress to avoid damage.

PLAY BACK THE RECORDED FILES

Select [Music] in Main Menu, all the recorded files can be found at the bottom of the list. You can also input the serial number of the particular file directly and press [MENU] to play it.

CALENDAR

Select [Calendar] in Main Menu, press [MENU] to display the date, time and day of the week. You can use <Tuning knob> or <▶⁺>, <◀⁻> to adjust the year, month and day to see the corresponding day of the week.

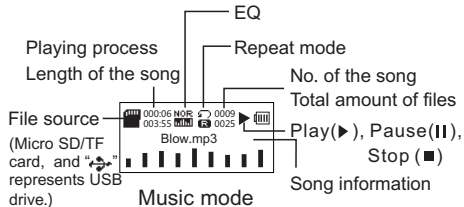
When adjusting the date, press <MENU> to move the cursor.

PLAYING MUSIC

In radio off mode, insert a microSD/TF card or a USB drive with MP3/WMA/WAV format music files to the corresponding slot on the radio.

Then turn on the radio and select [Music] in Main menu, press <MENU> to enter music playing mode, the display will show the information of the song.

In Radio mode, press <Radio/MP3> to directly switch to Music mode.



NOTES:

Please insert or pull out the card of USB drive when radio is off. Do not operate them when the music are being played.

If music mode can not be entered, please check if the card or USB drive was inserted correctly.

PLAY AND PAUSE

When the music is playing, press <FM/▶||> to pause, the pause symbol "||" will show on the display. Press <FM/▶||> again to resume playing and the play symbol "▶" appears.

SELECT MUSIC FILES





1. Press <◀◀> or <▶▶> to select music files, press and hold them to fast rewind or fast forward.
2. When pause, press <MENU> to open the sub-menu and select [File browser], press <MENU> to enter the folder and find the particular file by pressing <◀◀> or <▶▶>.
3. Directly input the NO. of the music file and press <FM/▶||> to confirm and the radio will play the selected file.

A-B REPEAT

When the music is playing, press <AM/ A=B> once to set the start point A, [A-B] shows on the display and "B" starts flashing. When the playing process reaches your desired location, press <AM/ A=B> again to set the ending point B. Now the radio will repeat playing from A to B. While repeating, press <AM/ A=B> to cancel the repeating and go on playing the file as normal.







REPEAT MODE SELECTION

When the music is playing, press <SW/↻> to select repeat mode from the below:

-  - Repeat all
-  - Repeat folder
-  - Repeat one
-  - Random

EQUALIZER SELECTION

When the music is playing, press <M+/EQ> to select equalizer from the below:

-  - Normal
-  - Pop
-  - Rock
-  - Jazz
-  - Classic
-  - Bass

LYRICS DISPLAY

Support both Chinese and English display.
The lyrics must be in .lrc format, use the same name as the song and location in the same folder.
Due to many Chinese versions on the market, you may have some character unreadable.

DELETE MUSIC FILES

When pause, press <MENU> to enter the following settings:

- File browser: Select music file
- Delete file: Delete a single music file
- Delete all: Delete all music files

To operate the above settings, press <MENU> to enter or confirm, press <◀◀> or <▶▶> for selection.

TEXT BROWSER

Insert the micro SD/TF card or USB drive that with .txt format text file, then you can read the file with the radio.

Select [Text browser] in Main menu, press <MENU> to enter and select your desired file. Then press <MENU> to start reading, press <◀◀> or <▶▶> to turn pages.

When reading, press <MENU> to enter below settings:

- File selection: select a particular file
- Play set: Manual or Auto play selection
- Playback speed
- Enter main: Enter Main menu
- Exit

SYSTEM SETTINGS

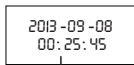
Select [System Settings] in Main menu, press <MENU> to enter below settings:

- System time
- Backlight
- Language
- Tools
- Contrast
- Firmware version
- Restore factory settings
- Exit

DATE AND TIME SET

Select [System time] in System Settings, press <MENU> to enter date and time. Press <MENU> to move the cursor and press <▶▶+> or <◀◀-> to adjust. Press <EXIT> to save and exit when setting finishes.

NOTE: Operating time for each step is about 5 seconds.



Year: Month: Date
Hour: Minute: Second

Press <EXIT> in Main menu can play the time on the display.

SLEEP TIMER

In System Settings, select [Tools] - [Sleep timer], press <MENU> to enter. Press <▶▶+> or <◀◀-> to adjust the auto turn off timer from 00 - 90, select 00 to turn off the sleep timer. Press <MENU> to confirm and exit.

The radio will turn off automatically when reaches the preset timer.

After setting the sleep timer, [🔊] will show on the display when the time is displayed.

BACKLIGHT TIMER

Select [Backlight] in System Settings, press <MENU> to enter. Press <▶▶+> or <◀◀-> to adjust the backlight timer from 03-240 (seconds), press <MENU> to confirm and exit.

LANGUAGE SELECTION

Select [Language] in System Settings, press <MENU> to enter language selection mode, press <▶▶+> or <◀◀-> to select your desired language.

Available languages:

- | | | |
|-----------------------|--------------|-------------|
| - Chinese simplified | - Dutch | - Turkish |
| - Chinese traditional | - Portuguese | - Hebrew |
| - Japanese | - Spanish | - Thai |
| - Korean | - Swedish | - Hungarian |
| - English | - Czech | - Romanian |
| - French | - Danish | - Arabic |
| - German | - Polish | |
| - Italian | - Russian | |

CONTRAST SET

Select [Contrast] in System Settings, press <MENU> to enter. Press <▶▶⁺> or <◀◀⁻> to adjust from 00-16, press <MENU> to confirm and exit.

TURN ON/OFF KEY TONE

In System Settings, select [Tools] - [Touch-tune (off)]. Press <MENU> to turn on the key tone, and [Keypad tones (on)] shows on the display. While [Keypad tones (on)] displays, select it and press <MENU> to turn off the key tone.

FIRMWARE VERSION

Select [Firmware version] in System Settings, press <MENU> to display the firmware version information.

ALARM SET

In System Settings, select [Tools] - [Alarm]. Press <MENU> to enter the below settings:

- Alarm Off

Repeatedly pressing <MENU> to turn on or off the alarm. [Alarm Off] indicates the alarm is off, [Alarm ON] indicates the alarm is activated.

- Alarm Time

Press <▶▶⁺> or <◀◀⁻> to adjust the Hour and the Minute, press <MENU> to move the cursor, and press <EXIT> to save and exit.

- Alarm Cycle

You can select from [Ring Once], [Ring Daily] or [Ring multi-day].

Ring Once: Press <▶▶⁺> or <◀◀⁻> to adjust the Year, Month and day, press <MENU> to move the cursor, and press <EXIT> to save and exit.

Ring Daily: The alarm is effective everyday.

Ring multi-day: Select from Monday to Sunday, press <MENU> to select and a tick will show. Press <EXIT> to save and exit.

- Alarm Mode

Ring Embedded: Auto turn on the radio with a ringtone.

RADIO: Auto turn on the radio with the last radio station listened to.

RESET

U disk directory: Auto turn on the radio with the music file in the micro SD/TF card or USB drive that selected.

Exit

- Exit

When the alarm is activated, [🔔] appears on the display, the radio will alarm with the selected mode when reaching the preset time.

If the selected mode is [Ring Embedded], you can press any button to turn off the ringtone when the alarm goes off.

RESET

Select [Restore factory settings] in System Settings, press <MENU> and notice [Restore factory sett, NO] shows on the display. Press <➡+> or <←> to make [NO] or [YES] shows alternately. Select [YES] and press <MENU> to confirm reset.

FIRMWARE UPGRADE

FIRMWARE UPGRADE

The radio supports firmware upgrade, if there is an updated firmware or the radio system breaks down, you can update the radio system with the below steps: **(Unload the battery before upgrade)**

1. Download the upgraded firmware and update tool from our website to a computer.
2. Use the provided USB cable to connect the radio and computer.
3. Open the downloaded update tool, the below program appears on the screen. (Picture 1-1)

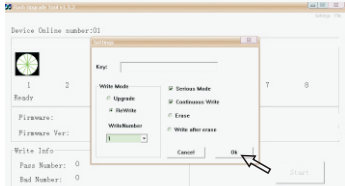


1-1

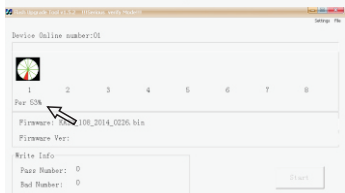
4. Click [File] and find the downloaded upgraded firmware in your computer (Picture 1-2), import the file to the tool. A “Settings” dialog appears and click [OK] to start updating. (See picture 1-3)
5. The percentage will starting advancing until reaches 100%. (Picture 1-4, 1-5)



1-2



1-3




1-4




1-5

USE AS AN ACTIVE LOUDSPEAKER (LINE-IN)

The radio has line-in function, can be used as an active loudspeaker by connecting it to other media devices such as laptop, voice recorder or other MP3 players with a line-in cable.

Plug one end of the line-in cable to the earphone jack of the media device, and the other end into <AUX> jack on the side of the radio. [] will show on the display, then play the audio in the media device.

The radio can also be used as a speaker of computer. Use a USB cable to connect the radio and a computer, all the audio from the computer will be played via the speaker of the radio. To turn off this function, press <  > to turn off the radio.

CARE AND MAINTENANCE

CARE AND MAINTENANCE

- 1.** Keep it dry. Rain, humidity and other types of liquids or moisture can contain minerals that may cause corrosion to components. If the radio does accidentally get wet, remove the battery and wait for the radio to dry completely before placing it back.
- 2.** Do not use or store in dusty or dirty areas. This may damage the moving parts and electronic components.
- 3.** Do not store the radio in over heated areas. High temperatures can shorten the life span of certain components.
- 4.** Do not place the radio in cold environment. Otherwise, when the surrounding temperature rises to room temperature, internal moisture may develop and damage the circuit board.
- 5.** Do not drop, hit or smash the radio.
- 6.** Do not use harsh chemicals, cleaning solvents, or strong detergent to wash the radio. Use a clean and dry soft cloth to clean the screen.

BATTERY SAFETY INFORMATION

BATTERY SAFETY INFORMATION

- 1.** Use the battery under normal conditions, temperature: (0 - 35)°C, relative humidity: 65 ± 20%. Under normal circumstances, the battery can be charged and discharged about 300 times.
- 2.** Do not expose the battery to heat or high pressure, do not drop the battery, and prevent children from playing with the battery.
- 3.** Do not short-circuit the battery, do not open or amend, do not expose to damp environments.
- 4.** If not using for an extended period of time, remove the battery and store in a safe manner. Please use a nonconductive material to wrap the battery in order to avoid direct contact with metal. You can avoid damages by keeping the battery in a cool dry place.
- 5.** Dispose of the battery properly, do not put into fire or water.
- 6.** Do not use the battery under strong sunlight, to avoid over heat, deformation or smoldering. This will reduce the performance and life span of the battery.

TROUBLESHOOTING

1. Can not turn on the radio.

- Possibly the battery drained, please charge the battery.

2. Can not be connected to a computer.

- Please do the connection in radio off mode.
- The USB cable maybe damaged, please try another one.

3. Speaker does not sound.

- Check if the volume level is too low, turn it up.

4. Can not play audio from the Micro SD(TF) card or USB drive.

- Check if the card or the USB drive has poor compatibility, try another card or USB drive.
- The file is damaged or with incorrect format, delete the file and try again.

5. Can not charge the radio.

- Check if the external adapter or the USB cable was connected correctly.
- Check if the adapter or USB cable is damaged.

6. How to reset the radio?

- Misuse may lead to errors in the firmware, remove the battery for a few minutes and reload.

SPECIFICATIONS

Memory	Supports micro-SD/TF card 64M-32G
Music format	MP3 WMA WAV
Access rate	MP3: 16-320Kbps WMA: 8-384Kbps
Frequency range	FM 87.0-108MHz 64.0-108MHz AM 522-1710KHz SW 3.20-21.85MHz
Earphone output	≤10mW*2
Communication standard	USB2.0(hightspeed)
Max. output (Speaker)	About 500mW
Max. current consumption	About 300mA
Power source	
Lithium battery	3.7V
External adapter	5V --- 500mA
Lithium battery consumption (Volume is 22 level)	MP3: About 5H Radio: About 5H
Charging time	3-5 hours
Speaker	D40mm
Earphone	D3.5mm
Unit size	Approx.130 x 75 x 28mm
Weight	Approx.186 g (battery incl.)