Kaito — KA1101

PLL FM STEREO/MW/SW DUAL CONVERSION RECEIVER
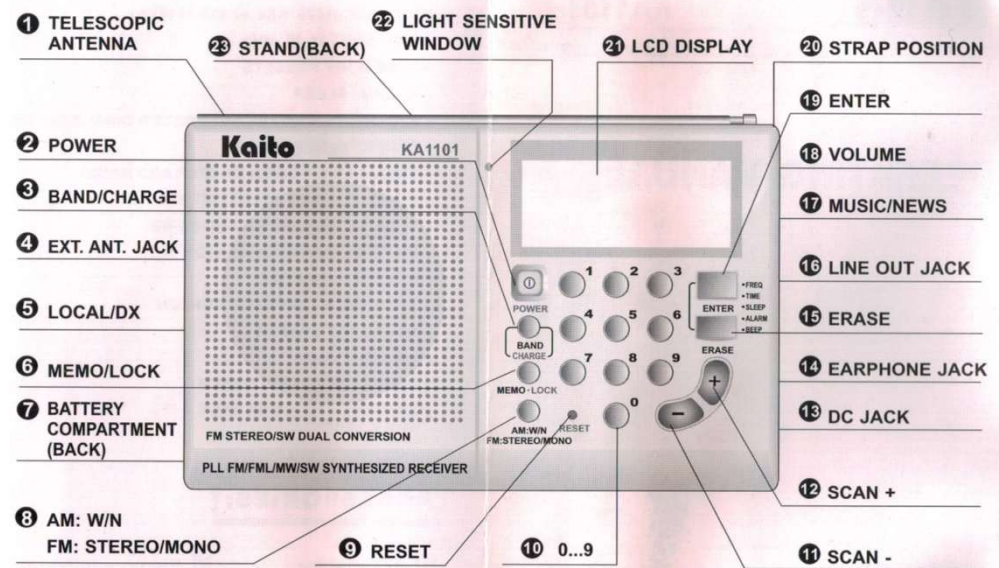
OPERATING MANUAL

LOCATION OF CONTROL

1 TELESCOPIC ANTENNA

22 LIGHT SENSITIVE WINDOW

23 STAND(BACK)

21 LCD DISPLAY

20 STRAP POSITION

19 ENTER

2 POWER

3 BAND/CHARGE

4 EXT. ANT. JACK

5 LOCAL/DX

6 MEMO/LOCK

7 BATTERY COMPARTMENT (BACK)

8 AM: W/N
FM: STEREO/MONO

9 RESET

10 0...9

18 VOLUME

17 MUSIC/NEWS

16 LINE OUT JACK

15 ERASE

14 EARPHONE JACK

13 DC JACK

12 SCAN +

11 SCAN -

Kaito   KA1101

POWER

BAND
CHARGE

MEMO·LOCK

AM:W/N   RESET
FM:STEREO/MONO

ENTER

ERASE

•FREQ
•TIME
•SLEEP
•ALARM
•BEEP

FM STEREO/SW DUAL CONVERSION

PLL FM/FML/MW/SW SYNTHESIZED RECEIVER

1 2 3
4 5 6
7 8 9
0

+
−

KEY FEATURES

○ FM STEREO/FML/MW/SW1/SW2
○ DUAL CONVERSION TECHNOLOGY
○ FM: 70.0 - 108.0 MHz
○ MW: 522 - 1620 Khz or 520-1710Khz
○ SW: 3.00 - 26.10 MHz
○ 50 MEMORY PRESETS
○ ALARM / SLEEP
○ MANUAL TUNING / SCAN / PRESET/ DIRECT ENTRY
○ CLOCK / SLEEP / LOCK
○ TWO ALARM MODES: BEEPER AND RADIO
○ MONO / STEREO SELECTABLE
○ TONE SELECT: MUSIC AND NEWS
○ BATTERY POWER INDICATOR
○ BATTERY CHARGER
○ AUTO BACK LIGHT LCD SCREEN
○ LOCAL / DX SWITCH
○ LINE OUT JACK
○ BUILT-IN SPEAKER: D66MM
○ EXTERNAL ANTENNA JACK

ACCESSORIES:

☑ AC adaptor   ☑ Stereo earphones
☑ External antenna   ☑ Carrying Case
☑ Operating manual
☑ 3 way Ni-Mh rechargeable batteries

LCD DISPLAY
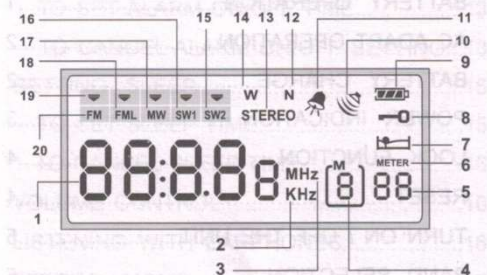
1. FREQUENCY/TIME
2. KHZ
3. MHZ
4. MEMORY NUMBER
5. METER FREQUENCY/
   SLEEP TIME/SECOND
6. METER BAND
7. SLEEP
8. LOCK
9. POWER INDICATOR
10. ALARM
11. BEEP
12. AM NARROW BAND
13. FM STEREO
14. AM WIDE BAND
15. SW2
16. SW1
17. MW
18. FML
19. CURRENT BAND
20. FM

INDEX

BATTERY OPERATION

1 Slide the battery lid.

2 Insert three AA batteries
with correct polarity
as shown in the compartment.

3 Close the lid of compartment.

- When the sound becomes weak and distorted,
  please reduce the volume or replace the
  batteries with new ones.
- Replace the batteries immediately to prevent
  memories losing after the unit turns off.

BATTERY REPLACEMENT

Turn off the unit, then replace the batteries with new
ones within 3 minutes.

Otherwise, memories will be lost and clock reset
to *12: 00*.

- ▶ Disconnect external power source before
  operating on battery power.
- ▶ Rechargeable battery is available for the
  unit.
- ▶ Do not mix different types battery
  (Alkaline, Carbonic, Nickel Cadmium
  etc.), or old batteries with new ones.
- ▶ When the unit is not being used for a long
  period of time, remove the batteries to avoid
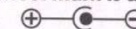 damage from battery leakage and corrosion.

• 1 •

AC ADAPT OPERATION

DC-06
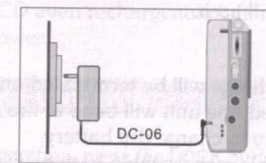
1. Plug the adaptor into an 220V AC power outlet.
2. Insert the adaptor's small connector plug into the
   DC JACK ⓭.
3. Turn on the unit.

▶ Make sure the polarity of the AC adaptor suits
  your unit before plugging it into the AC power
  outlet, the correct mark is as follows:

$\oplus\!\!-\!\!\bullet\!\!-\!\!\ominus$

BATTERY CHARGE

1. Install three AA rechargeable batteries with
   correct polarity.
2. Connect the AC power adaptor securely to DC
   JACK ⓭.
3. Press CHARGE button ❸, power indicator will
   flash in the display for 3 seconds, press number
   button 1...6 to select charge time from 1 to 6 hour
   according to battery capacity in flash time,
   otherwise the unit will exit from charge mode.

• 2 •

4. The unit will adjust charge time and charge speed automatically during charging. After charging, the unit will beep.

▶ Battery charge will be terminated once it is disordered, the unit will beep at the same time.
▶ Do not try to charge dry battery.
▶ Use eligible rechargeable battery, we recommend Ni-Mh battery and 4-5 hours charge time.
▶ Keep the unit off when charging.
▶ Try to charge the batteries full and then exhaust them at the first three times when you begin using the rechargeable batteries.
▶ Avoid not using the rechargeable battery with full power for a long time to prevent battery getting bad.

POWER INDICATION

The battery power is shown at 4 levels in the display.

Full   Exhausted
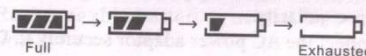
▶ When ▭ appear, ALARM FUNCTION and BUZZ FUNCTION do not work.
▶ If batteries get too weak for proper operation, the unit will automatically shut off.

▶ If rechargeable batteries are installed, POWER INDICATOR ▭ is shown displays in LCD even rechargeable batteries are full of power.

LOCK FUNCTION

To lock operation, press the LOCK button ❻ about 1 second till —o appears in display.
Press again to cancel lock function.

12:00   05   12:00   09
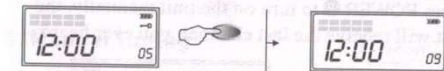
When the lock function is activated, lock indicator —o appears in the display. all buttons except RESET button become inoperative.

Lock function prevent the unit from short, accidental button press.

RESET

If the unit operates erratically, press RESET button ❾ to resume normal operation.

RESET

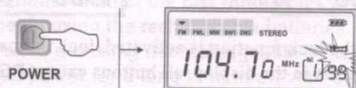Reset function will erase all of the memories including clock setting.

DEFAULT SETTING

Reconvert default setting by pressing RESET button.

CURRENT TIME	12:00	BEEP TIME	--:--
ALARM ON TIME	--:--	SLEEP TIME	99 MIN
ALARM OFF TIME	30 MIN		

TURN ON / OFF THE UNIT

Press POWER ❷ to turn on the unit manually, the unit will receive the last channel you ever heard.


After listening, press POWER ❷ to turn off the unit.

▶ If ALARM FUNCTION is activated, the unit will automatically turn on at preseted time.
▶ You can set SLEEP time after setting alarm time or turning on the unit. The unit will automatically turn off when the set time reaches.

BAND SELECTION

Press BAND button ❸ repeatedly to select FM, FML, MW, SW1,SW2 band, the corresponding current band indicator will be shown in the display.

• 5 •
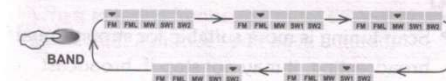
To listen to campus broadcasting or to receive TV audio frequency, select FML.

TUNING IN TO A STATION

1. Manual Tuning

Press SCAN button(+ ⓬ / - ⓫) to tune in to the desired station. Manual tuning is more suitable for weak signal broadcasting.

2. Scan Tuning

Hold down SCAN button (+ ⓬/ - ⓫) for about 1 second, release when the unit starts scanning. The unit starts to tune in to the stations automatically.

When a station is tuned in, scanning stops and the tuned station is heard.

• If there is a station you wish to skip during scanning, hold SCAN button(+ ⓬or - ⓫) to skip this station.
• Press SCAN (+⓬or - ⓫) button while scan tuning, scanning will stop immediately.

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▸ Scan tuning is more suitable for strong signal broadcasting, it may not stop if broadcast signals are weak.
▸ If tuning become slowly in a frequency range, try manual tuning to the optimum frequency.
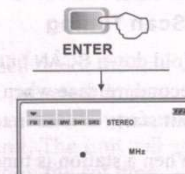
3. Direct Frequency Entry

Direct frequency entry makes it extremely easy to tune in to a station when you knows its exact frequency.

1 Press BAND button to select the desired band.

97.10 MHz

2 Press ENTER button ⑲, display is blank for you to enter the frequency for 10s.

ENTER

• MHz

Press 1, 0, 4, 8, 0

3 Press the number buttons with complete frequency. (The minimum frequency step for direct input is 0.05 MHz for FM, FML and 1KHz for MW, SW1, SW2.)

104.80 MHz

When entering frequency, press ERASE button to delete the number you have entered.

▸ If the frequency entered is invalid, you will hear short beep.
▸ If the MW frequency number is not multiple of 9, the unit will tune in to a station near the frequency you have entered.

4. Listening to Preset Stations

There are 50 memories, 10 each assigned to FM, FML, MW, Sw1, Sw2 band with preset number 0...9.

1 Press BAND button to select the desired band.

102.75 MHz
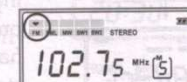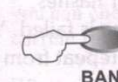
BAND

2 Press the preset number (0..9) to tune in to the preset station.

103.40 MHz

0...9

PRESETTING STATIONS

You can preset up to 10 stations under each preset number (0-9) on each band:

FM:0-9+FML:0-9+MW:0-9+SW1:0-9+SW2:0-9 = 50 Presets
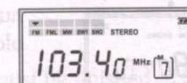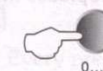
1 Tune in to a desired station by manual tuning, scan tuning or direct entry.

2 Press STORE button ❻, ⊔ flashes in the display.

3 Press a preset number to memorize the station. The corresponding number will indicate in the display.
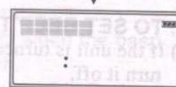
89.80 MHz

▶ If you can not complete step 3 while the indicator flashes, presetting is failed. You have to repeat from step 1.

▶ If a station is already stored, the new station with the same preset number replaces the old one.

89.80

0...9

89.80 MHz

SETTING CURRENT TIME

1. TO SET CURRENT TIME

1) If the unit turns on, press POWER button to turn it off.
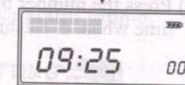
ENTER

2) Press ENTER button ❿.

3) To enter current time, press the number buttons quickly.
(If you have not finished the setting, you can press ERASE button ❺ to delete the number you have pressed.)

PRESS 0, 9, 2, 5

09:25   00

2. TO CHECK CURRENT TIME

When the unit is off, you can check the current time directly.

20:30   25

HOUR MIN   SECOND

When the unit is on, you can press ERASE button ❺ to display current time for 1 second.

20:30   99

HOUR MIN   SLEEP TIME

▶ Every pressing must be finished in 5 seconds, or the unit will exit the setting.

- The beep will sound if invalid time is entered. The time only can be set in 24 hour format.
- After current time has been set, the unit will automatically turn to clock beep setting.

SETTING ALARM BY BEEPER

1. TO SET BEEP TIME

1) If the unit is turned on, press POWER button to turn it off.
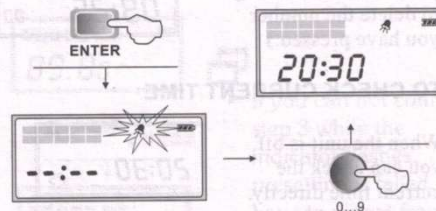2) Press ENTER button ⑲ twice, ⚟ will flash in the display.
3) Press the number button to enter the desired beep time when ⚟ flashing

- If you have not finished the setting, you can press ERASE button to delete the number you have pressed.
- To exit the setting, press ERASE button a few times until the unit return to standing by.
- The unit will beep at the presented beep time for 1 minutes until you press any button to stop it.

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- The VOL control can not to be used to adjust beep volume.
- If power is too weak, beep function do not work.
- The beep will break in broadcasting reception if the unit is on at beep time.
- The beep timer takes effect when the beep time and alarm time match.
- Every pressing must be finished in 5 seconds, or the unit will quit the setting.
- After beep time has been set, the unit will automatically turn to radio alarm setting.

2. TO CANCEL BEEP SETTING

1) Turn off the unit.

2) Press ENTER button twice.

3) Press ERASE button when ⚟ is flashing.

• 12 •
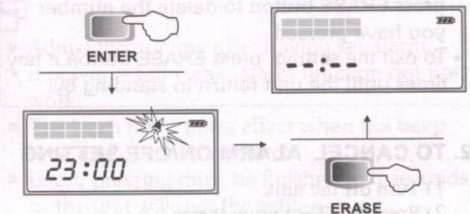
SETTING ALARM BY RADIO

If you have set radio alarm on and off time, the unit automatically turns on at alarm on time and then turns off after the preset alarm off time.

1. TO SET ALARM ON/OFF TIME

1) If the unit is turned on, press POWER button to turn it off.
2) Press ENTER button ⑲ thrice, ✸ will flash in the display.
3) Press the number button to enter the desired alarm on time when ✸ flashing.
4) After setting the alarm on time, the unit enter alarm off time setting and ▭ is flashing. Press desired alarm off time directly from 1 to 99 minute. (Or press ERASE button to exit alarm off time setting.)


• If you have not finished the setting, you can press ERASE button to delete the number you have pressed.
• To exit the setting, press ERASE button a few times until the unit return to standing by.

---

2. TO CANCEL ALARM ON/OFF SETTING

1) Turn off the unit.
2) Press ENTER button thrice.
3) Press ERASE button when ✸ is flashing.

• 13 •

ENTER

0...9   ERASE

06:30   **11:50** 52
                         CURRENT TIME

0...9   ERASE

06:30 30   **11:50** 52
ALARM ON   ALARM OFF   CURRENT TIME
TIME   TIME
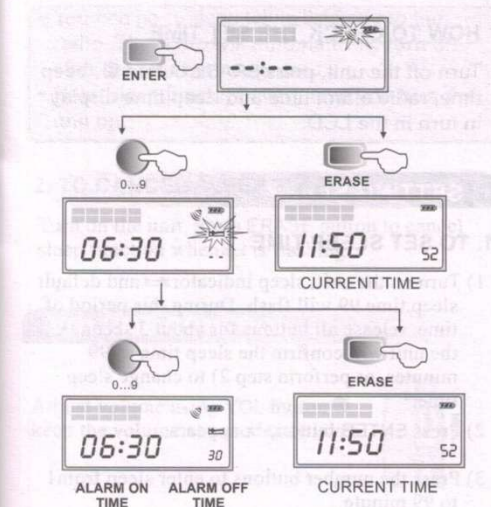
▸ Adjust the volume after having set alarm.
▸ If power is too weak, alarm function dot not work.
▸ The beep timer takes effect when the beep time and alarm time match.
▸ Every pressing must be finished in 5 seconds, or the unit will quit the setting.
▸ After alarm on is cancel, alarm off timer is invalid.

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HOW TO CHECK THE SET TIME

Turn off the unit, press ERASE button ⑮, beep time, radio alarm time and sleep time display in turn in the LCD.

SETTING SLEEP

1. TO SET SLEEP TIME

1) Turn on the unit, sleep indicator ⤴ and default sleep time 99 will flash. During this period of time, release all buttons for about 3 seconds, the unit will confirm the sleep time as 99 minutes, or perform step 2) to change sleep time.

2) Press ENTER button, -- appears.

3) Press the number buttons to enter sleep from 1 to 99 minute.

POWER

ENTER

FM FML MW   STEREO

89.8 99

FM FML MW SW1 SW2 STEREO

89.80 MHz

FM FML MW SW1 SW2 STEREO

89.80 MHz 30

0...9

• 15 •

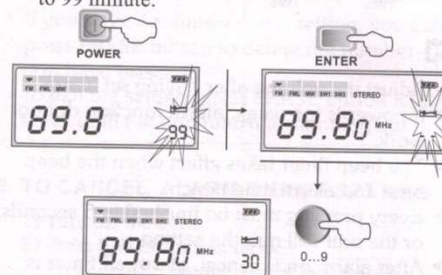• You can go to sleep while listening to the radio. The radio will automatically turn off after the set time has passed.
• Reset sleep function every time you turn the unit on.

2. TO CANCEL SLEEP TIME

Turn on the unit, press ERASE button to cancel sleep function when ⤴ is flashing.

VOLUME CONTROL

Adjust volume using VOL button ⑲, keep the volume at a moderate level.

LISTENING WITH EARPHONES

When listening to stereo reception, normally use earphones and set MONO / STEREO button to STEREO.

Speaker has MONO effect only.

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STEREO / MONO

When listening to a stereo reception, normally press STEREO / MONO ❽ until indicator appears. If the stereo reception is too weak or noisy, set the selector to MONO.

MONO: weak signal broadcast, voice program, mono broadcast.
STEREO: strong signal broadcast, music, FM Stereo broadcast.

WIDE / NARROW BAND

Press AM:W/N button❾repeatedly to select wide band or narrow band when listening MW or SW broadcasting.

Wide band has a better tone reception than narrow band, but it is noisier than narrow band reception.

LOCAL / DX

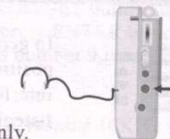In general, set the switch in DX position unless there is strong interference or when you are listening to local stations.

AUDIO OUTPUT

You can record radio broadcasting by connecting the unit to external appliance with a connecting cable inserted into LINE OUT jack ⓰.

Adjusting the VOLUME control on the radio has no effect on the audio output.

LIGHT

When you press any button in dark, the LED will be lighten.

When the unit turns on, press ERASE button to light the LED to avoid breading in broadcasting reception accidentally.

9K /10K STEP SELECTION

The default setting for the unit is 10KHz step. To convert to 9HKz step, press RESET button first, the LCD shows SET, then press ENTER button, the LCD Shows 9-10, press number 9, conversion succeed.

Press RESET button again to resume 10KHz step.

MW Reception

Ferrite antenna inside the unit functions as MW antenna, it is strongly effected by the reception direction.
When listening to MW broadcast, rotate the unit to find the position which gives the best reception.

（MW）
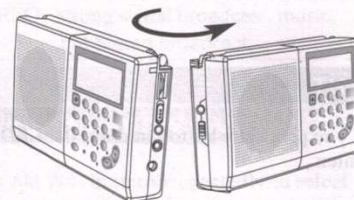
FM Reception
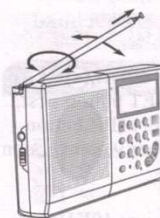
Telescopic antenna functions as FM antenna, keep it extended and change its length and direction to find the position which gives the best reception.

（FW）

SW Reception

Telescopic antenna functions as SW antenna. Extending the antenna straight upward to get the best reception.

(SW)

External Antenna

If FM or SW reception is too weak, use a external antenna to improve reception.

Do not use external antenna in thunder storm day.

CAUTIONS

On Handling

- Avoid exposure to temperature extremes, direct sunlight, moisture, sand, dust or mechanical shock.
- Should anything wrong with the radio, please remove the battery and have the unit checked by qualified personnel before operating it any further.
- Use only power sources specified in this manual.
- When the unit is not being used for a long period of time, remove the batteries to avoid damage form battery leakage and corrosion.
- The LCD display may become hard to see or slow down when using the unit at high temperatures (above 40°C) or at low temperatures (below 0°C).
- At room temperature, the display will return to its normal operating condition.
- The product may not operate normally, when the ESD (8kv) applied on the metal coated buttons. It is necessary to reset manually.

Notes On Earphones

- Avoid using earphones at high volume, if you experience a ringing in your ears, reduce volume or discontinue use.
- Shut down the radio before sleeping.
- Do not use earphones while driving or cycling, it can also be potentially dangerous to play your earphones at high volume while walking, especially at pedestrian crossing.

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SPECIFICATIONS

1. Frequency Range

FM	87.00 - 108.0 MHZ
FML	70.00 - 95.50 MHZ
MW 9k	522 - 1620 KHZ
10k	520 - 1710 KHZ

SW1		SW2	
3.000 – 9.995 MHz		10.000 – 26.100 MHz	
90m	3.160 – 3.455 MHz	25m	11.510 – 12.155 MHz
75m	3.860 – 4.055 MHz	22m	13.510 – 13.905 MHz
60m	4.710 – 5.105 MHz	19m	15.010 – 15.705 MHz
49m	5.910 – 6.255 MHz	16m	17.260 – 18.105 MHz
41m	7.010 – 7.405 MHz	13m	21.410 – 21.955 MHz
31m	9.170 – 9.995 Mhz	11m	25.610 – 26.100 Mhz

2. Memory Stations (50)

FM:0-9+FML:0-9+MW:0-9+SW1:0-9+SW2:0-9

3. Power Requirements:

Battery: three R6 (size AA) batteries
External power: DC in 6V   300mA

4. Charge Time: 1 - 6 hours

5. Speaker: D 66mm
6. External Earphone: D 3.5mm

7. Dimensions: Approx. 85x138x27 mm
8. Mass: Approx. 240 g (excl. Battery)

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