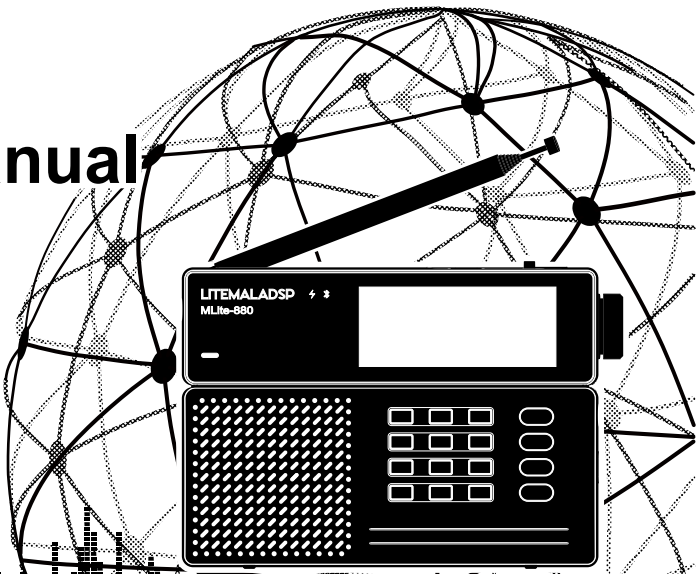
LITEMALADSP

Product manual

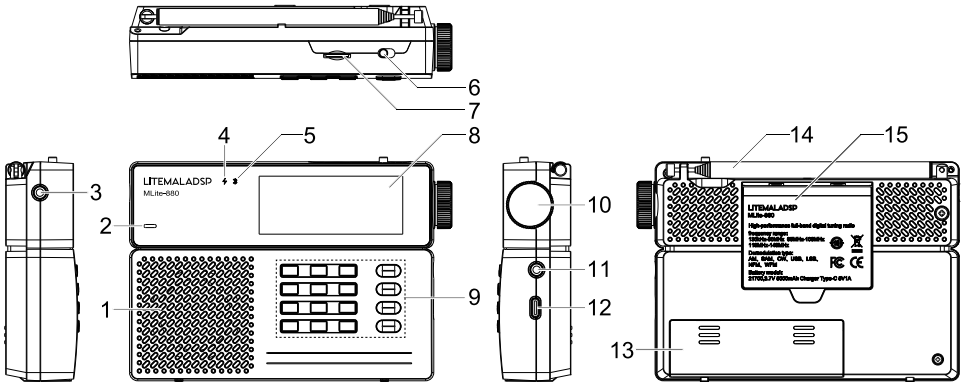
——MLite-880

Version: v2.1.0

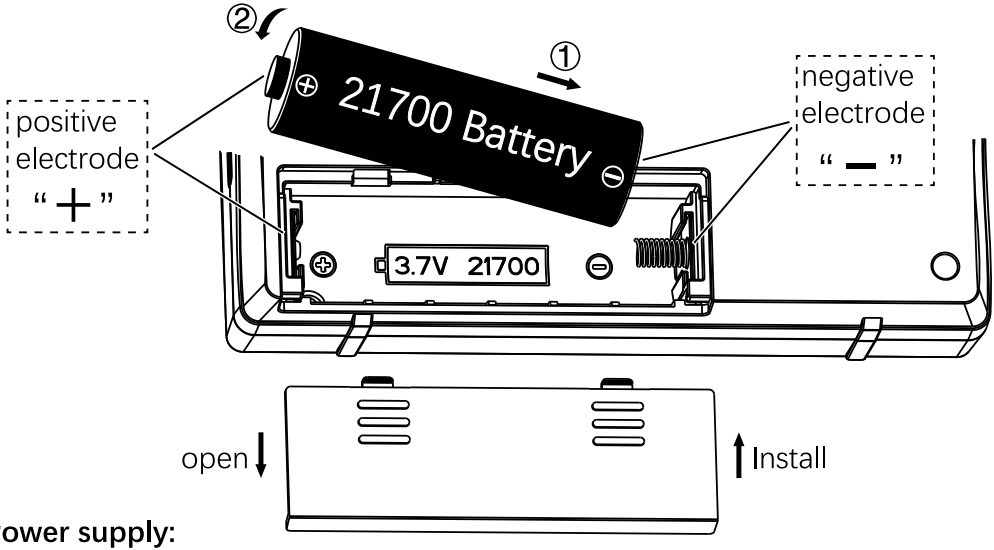
Release date: July 10, 2025



Functions and Operating Components Introduction



1	Speaker	5W	9	Key board	
2	Power LED	Blue	10	TUNING	Encoder with switch
3	Ext Antenna	AUX to SMA	11	EARPHONES	Stereo Out
4	Charging LED	Green/Red	12	TypeC	Externalpower supplycharging inputData interface
5	Bluetooth LED	Blue	13	BATTERY COMPARTMENT	
6	ON-OFF	Power Switch	14	Antenna	Rod Antenna
7	TF	MICRO SD (16G)	15	Support frame	
8	LCD	DOTS192X64			



Power supply:

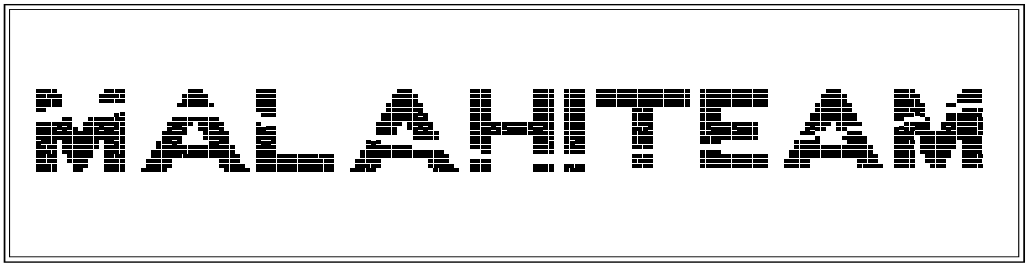
MLite-880 is powered by a 21700 3.7V rechargeable lithium battery.

Place a 21700 lithium battery in the correct polarity direction in the battery compartment.

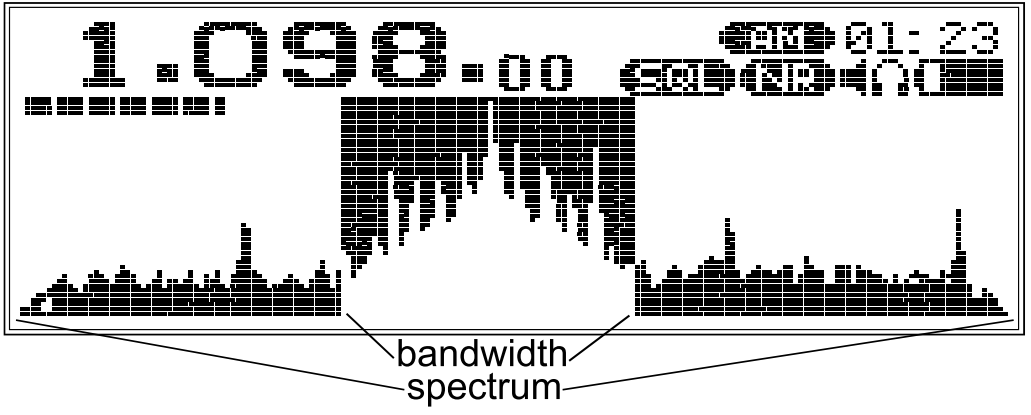
You can also use a power adapter（5V1A） connect to the Type C

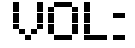
Charging-LED flashes red during charging, Charging-LED flashes green after charging is completed

Attention: This device is not suitable for fast charging



Display function indicator

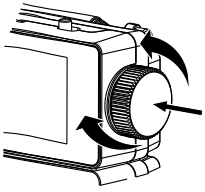


Indicator	Description	Operate	Indicator	Description	Operate
	S Meter	[5]-[A]-[1]		AM mode	[2]-[5]
	Audio output	[A]		SAN mode	[2]-[6]
	SQL trun on	[B]		NFM mode	[2]-[7]
	NR trun on	[C]		WFM mode	[2]-[8]
	USB mode	[2]-[1]		Volume:	[Knob]
	LSB mode	[2]-[2]		RDS	[5]-[5]
	CW mode	[2]-[3]		Time	
	DSB mode	[2]-[4]		Battery	

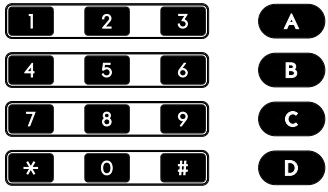
Operating nstructions

The operation of MLite-880 is based on the combination of keyboard and knob

TUNING
Encoder with
switch

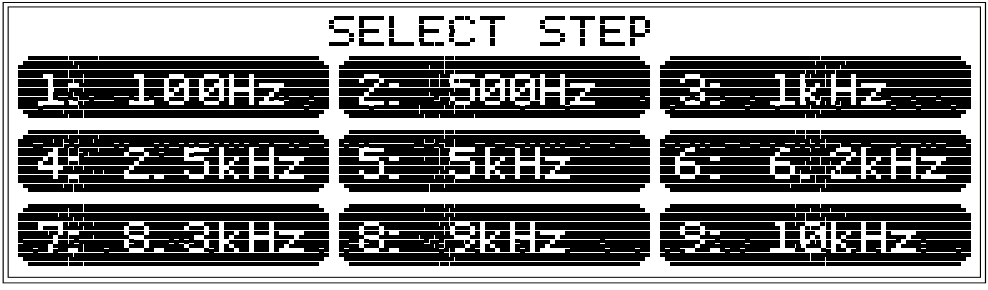


Key board



KeyBoard Introduction			
Key	**Description**	**Key**	**Description**
[Knob KEY]	Volume / Frequency	[5]	Display Settings /option 5
[A]	Audio output channel selection	[6]	Audio Settings
[B]	SQL enablement	[7]	Recording Menu
[C]	NR enablement	[8]	Channel Record
[D]	Return	[9]	Null
[1]	Frequency Step Menu/Option 1	[0]	Bands
[2]	Modulation mode menu/Option 2	[*]	Multi functional keys
[3]	Device Menu /Option 3	[#]	Enter
[4]	Manually enter frequency/option 4		

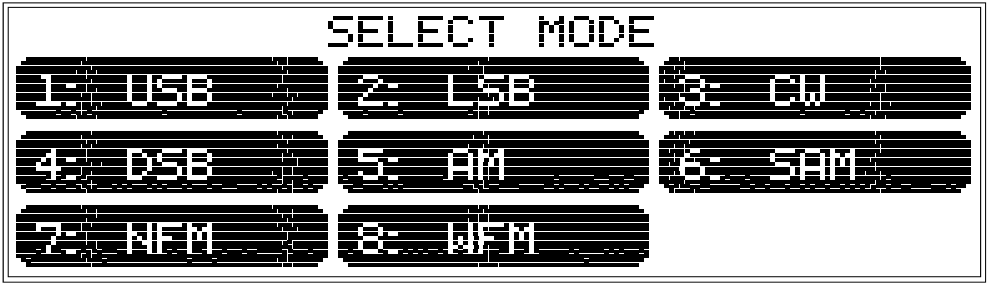
Keyboard button [1] - Frequency Step Selection menu



Frequency Step: Used to adjust the encoder step size

Press key [1] - [9] to select the applicable option, Press key [D] to Exit menu

Keyboard button [2] - Modulation Mode Selection menu



Mode menu: Used to set the receiving mode

Press key [1] - [9] to Select the desired demodulation mode

* WFM is only available within the frequency range of 65-108MHz

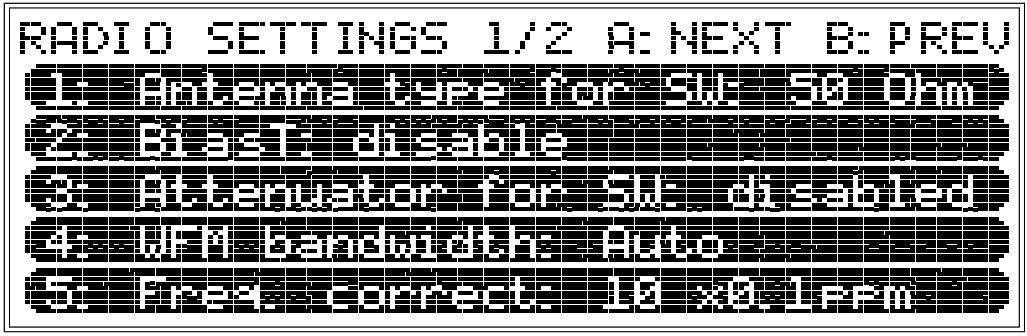
Press key [D] to Exit menu

Keybord button [3] - Device Menu

Press key [A] / [B] to change interfaces (2 pages)

Press key [1] - [5] to select configuration item

Press key [D] to Exit menu

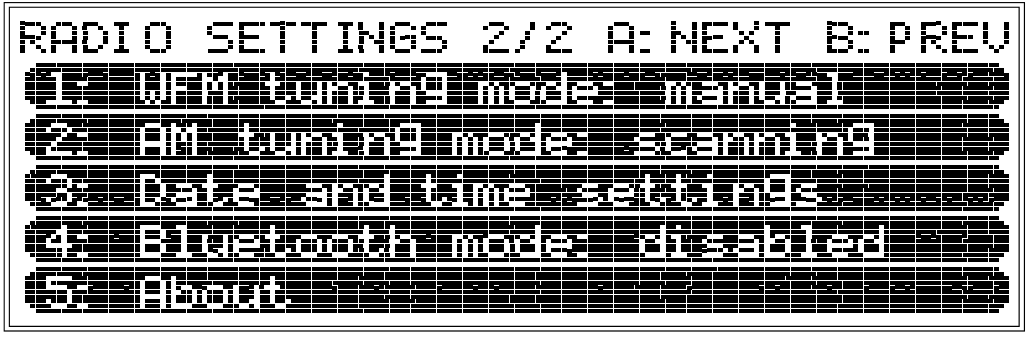


- [1] Select input antenna impedance for SW: 50 Ohm / Hiz

  * <50 Ohm> for using an external antenna

  < HiZ > for using telescopic rod antenna

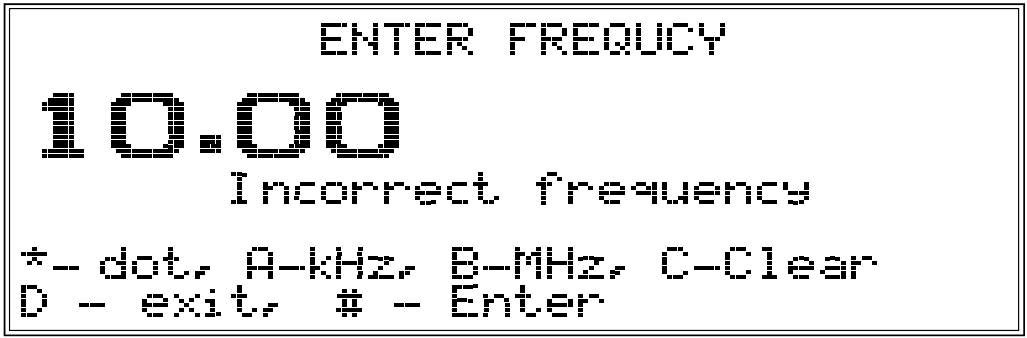
- [2] Turn on/off the power LED: disable / enable
- [3] High frequency attenuator (ATT): disabled / 6 -36
  * Rotate [knob] to adjust the ATT value(db)
- [4] WFM bandwidth adjustment
  * Only valid in FM mode
  * Rotate [knob] to adjust the bandwidth value(56kHz-311kHz)
- [5] Frequency offset correction
  * Rotate [knob] to adjust the frequency offset (+-0.1ppm)



- [1] WFM channel search mode: manual / scanning
  * IN scanning mode, return to the main interface.
    Rotate [knob] forward or backward to search for channels up or down

- [2] AM channel search mode: manual / scanning
  * IN scanning mode, return to the main interface.
  Rotate [knob] forward or backward to search for channels up or down
- [3] Date and time settings
  * 1. Time setting＜HH：MM＞Enter the time by pressing the keyboard digits
  Press key [A] to save，Press key [D] to return.
  * 2. Date setting＜DD：MM：YYYY＞-Enter the time by pressing the keyboard digits
  Press key [A] to save，Press key [D] to return.
- [4] Bluetooth function: disable / enable
  * Enable the bluetooth，MLite-880 will searching bluetooth peripherals automatically.
  Enable broadcast mode of your Bluetooth peripheral.
  MLite-880 will automatically connect to the target device after it is be found.
  Bluetooth LED will turn on when successful connection.
  * Restart Bluetooth When replacing other Bluetooth peripherals.
- [5] Device info: Software version and device ID

Keybord button [4] - Manually Input Frequency



Input Frequency by pressing the keyboard buttons

- [1] - [9] input numbers
- [*] input small points
- [A] end of "kHz" units
- [B] end of "MHz" units
- [#] Confirm input
- [C] Cancel input
- [D] Exit menu

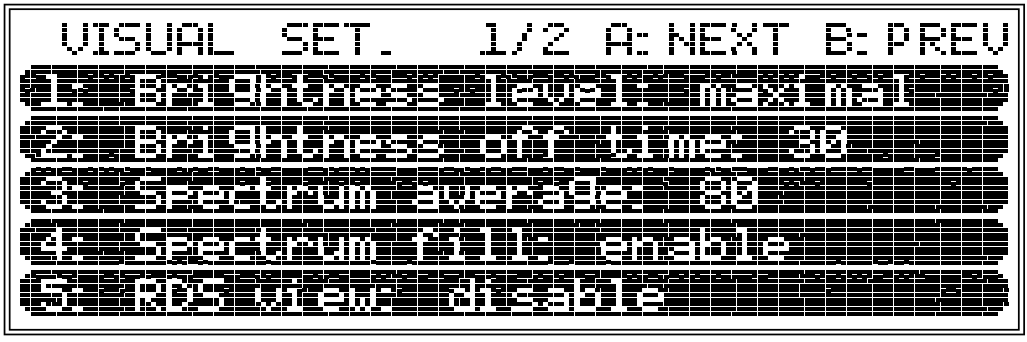
* EXA: Target frequency 10.00MHz, you may input [1], [0], [*], [0], [0], [B].

Keybord button [5] - Display Settings

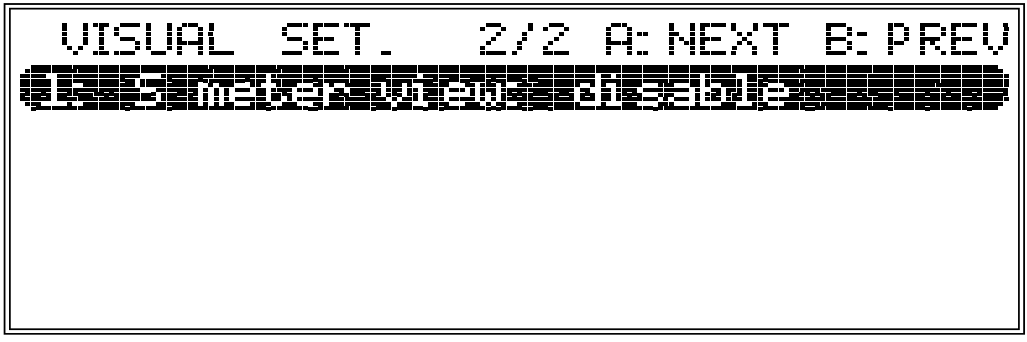
Press key [A] / [B] to change interfaces (2 pages)

Press key [1] - [5] to select configuration item

Press key [D] to Exit menu



- [1] LCD brightness level: maximal / middle / minimal
  * Rotate [knob] to adjust the brightness level
- [2] LCD brightness off time： disable / 5 S - 300S
  * Rotate [knob] to set the brightness off time
- [3] Average value of frequency spectrum curve ： 50 - 99
  * Rotate [knob] to set the value
  * The higher the value, the smoother the appearance of the frequency spectrum curve
- [4] frequency spectrum curve fill: disable / enable equenc
  * Display spectra in line or color form
- [5] RDS view： disable / enable
  * Display RDS information on the screen in FM mode: PI: XXXX



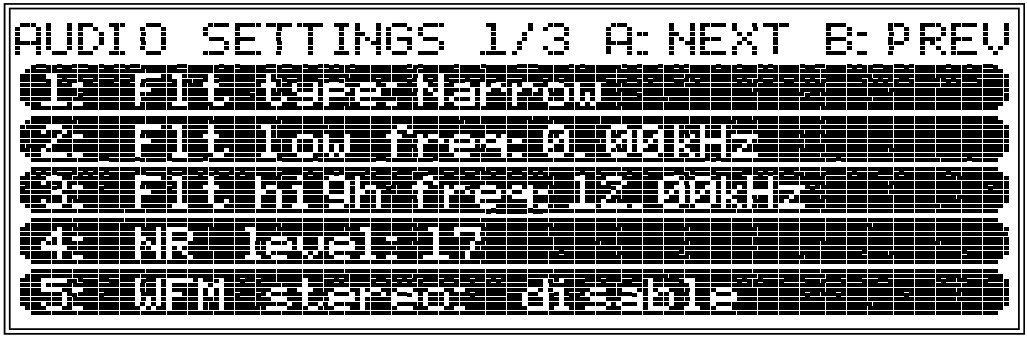
- [1] S meter view: disable / enable
    * Display Signal strength on the screen
    * Invalid in FM mode

Keybord button [6] - Audio Settings

Press key [A] / [B] to change interfaces (3 pages)

Press key [1] - [5] to select configuration item

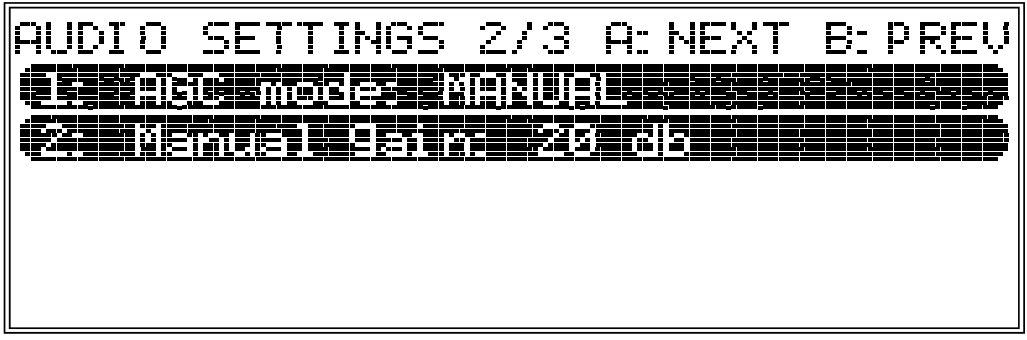
Press key [D] to Exit menu



- [1] Filter type: Narrow / Normal / Wide
  * Rotate [knob] to set the wave filter type
  * Default threshold for narrowband: 0.00Hz - 8.00Hz
  * Default threshold for normalband: 0.00Hz - 12.00Hz
  * Default threshold for wideband: 0.00Hz - 15.00Hz
  * The threshold can be manually adjusted and save it in the corresponding type
- [2] Low threshold setting:
  * Rotate [knob] to set the frequency(Auto save)
- [3] High threshold setting:
  * Rotate [knob] to set the frequency(Auto save)
- [4] NR level 0 - 30

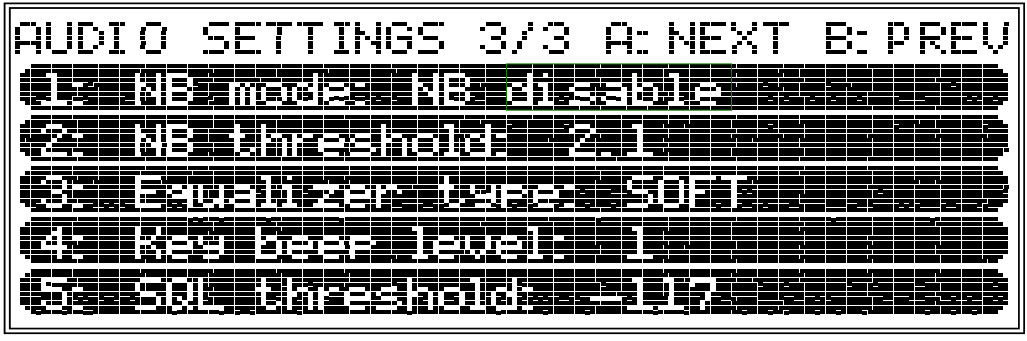
* Rotate [knob] to set the NR threshold
* Only effective when NR enabled (Black to main interface, press key [C])
* Invalid in FM mode

- [5] WFM stereo: disable / enable
* Use external headphones/speakers through audio port or Bluetooth



- [1] AGC mode: MANUAL/FAST/MIDDLE/SLOW/LONG
- [2] AGC limit: 40 - 90(db)
- [3] AGC gain: 0 - 60(db)

*Rotate[knob] to set the AGC mode and AGC threshold(db)

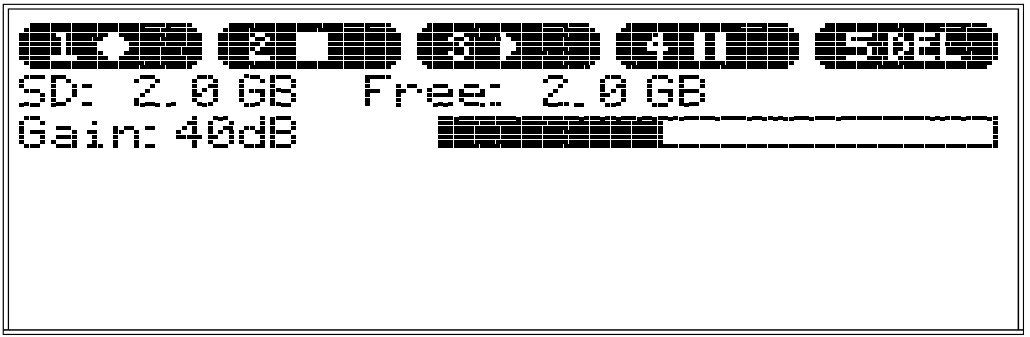


- [1] NB mode: NB dsiable / 1 / 2
  * pulse suppression mode, Noise blanker
  * Rotate [knob] to set the NB mode
- [2] NB threshold : 2.1 - 20.0
  * threshold of activation of the pulse suppressor
  * Rotate [knob] to set the NB threshold
- [3] Equalizer type: VOICE / POP/ JAZZ /BASS / ROCK / CLUB / LIVE / SOFT / EQ OFF
  * the selected type of equalizer.
  * Rotate [knob] to select
- [4] Key beep level: key beep off / 1 - 20
  * the level of “beep” when pressing key

* Rotate [knob] to adjust the volue

- [5] SQL threshold: -30 dBm - -120 dBm
  * the threshold for triggerting the SQL noisse suppressor
  * Rotate [knob] to set SQL

Keybord button [7] - Recording Menu



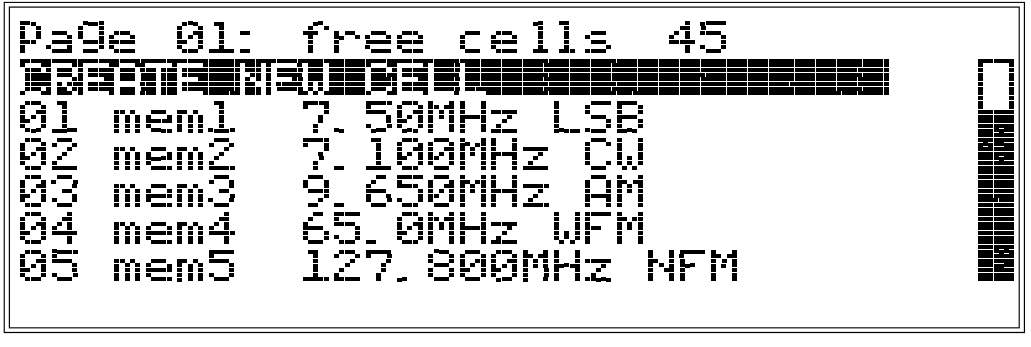
Firstly, set the channel to be recorded on the main interface and press the keyboard button [7] to enter the recording menu.

- [1] START
  * Rotate [knob] to adjust the audio gain level when recoding
  * The recording indicator should be approximately at the level of half to ¾ of the scale
- [2] STOP

* Simultaneously return the record list
* Create a file of the current recording content and automatically add it to the list
* Information: channel, file size, date

- [3] PLAY
  * Rotate [knob] to Select a file , press key [3] to play, [2] Return to List
  * press key [knob key] to convert adjust positon / adjust volume
  * Rotate [knob] to adjust positon / volume
- [4] Pause, press key [2] Return to List
- [5] DELETE Need to press key [5] again to confirm deletion
- [D] Exit menu

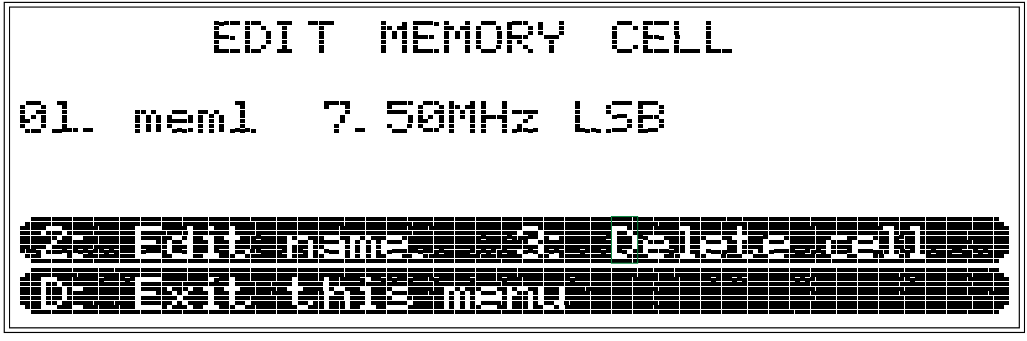
Keybord button [8] - Channel Record



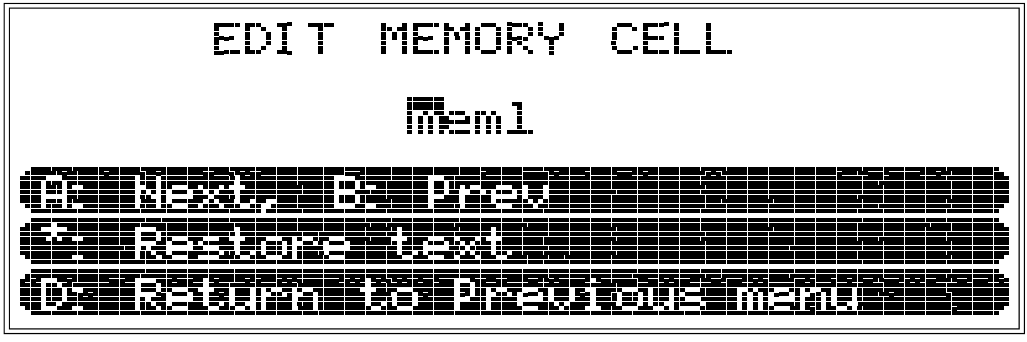
press key [A] / [B] to Switch page, Rotate [knob] to Browsing List
press key [D] to Exit menu

* Hover the cursor at position" CREATE NEW CELL "and press [*] to save the current channel and create it in the list.There are 10 pages, 50/page, a total of 500 channels can be saved

* Rotate [knob] to select the saved channel, press [*] to enter the editing page.



- [2] Edit name Rename
- [3] delete cell Delete Channel
- [5] Exit Return



- [A] Next -[B] Prev
- [*] Restore text --Cancel input
- [D] Return to previous menu –Save changes and return

* Move the cursor using the [A] [B] buttons and Rotate [knob] to select text / numbers / symbols.(limit 7 characters)

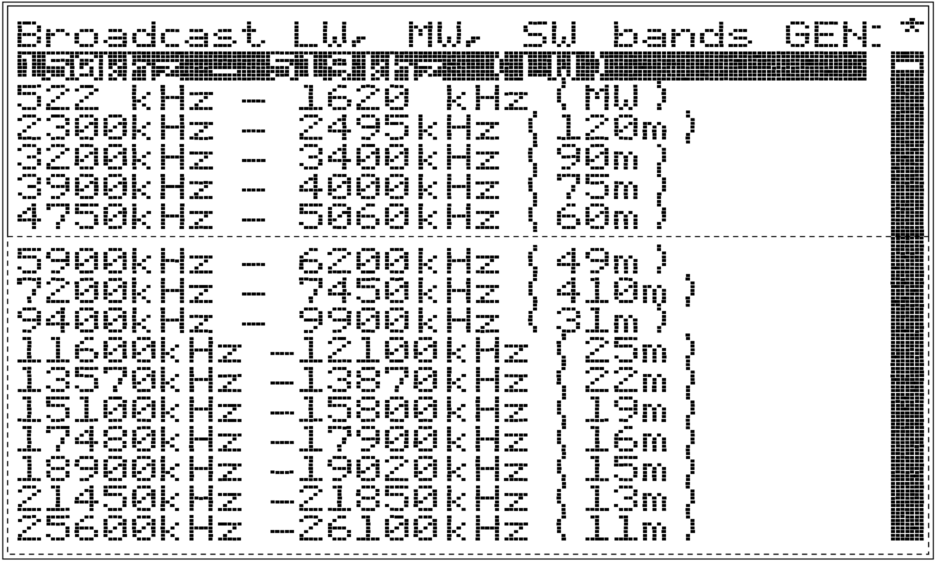
Keybord button [0] - Bands

press key [A] / [B] Switch options page (1, Broadcast / 2, Amateur / 3, FM & VHF bands)

* Rotate [knob] to Select frequency band

press key [#] to enter and return to the main interface

press key [D] to Exit menu



```
Broadcast LW, MW, SW bands GEN: *
153 kHz - 279 kHz ( LW )
522 kHz - 1620 kHz ( MW )
2300kHz - 2495kHz ( 120m )
3200kHz - 3400kHz ( 90m )
3900kHz - 4000kHz ( 75m )
4750kHz - 5060kHz ( 60m )
5900kHz - 6200kHz ( 49m )
7200kHz - 7450kHz ( 41m )
9400kHz - 9900kHz ( 31m )
11600kHz -12100kHz ( 25m )
13570kHz -13870kHz ( 22m )
15100kHz -15800kHz ( 19m )
17480kHz -17900kHz ( 16m )
18900kHz -19020kHz ( 15m )
21450kHz -21850kHz ( 13m )
25600kHz -26100kHz ( 11m )
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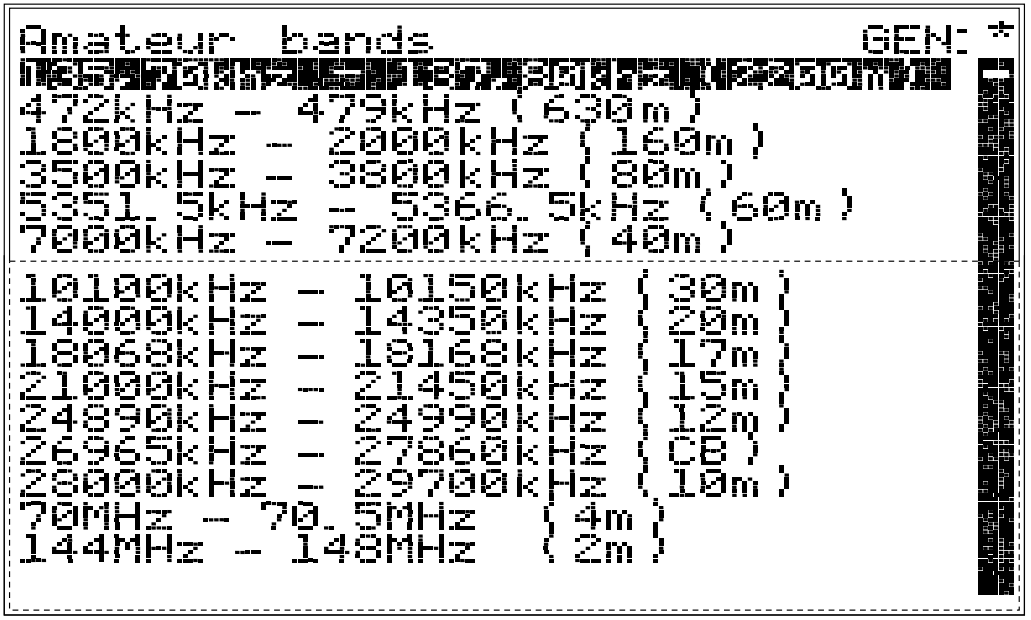
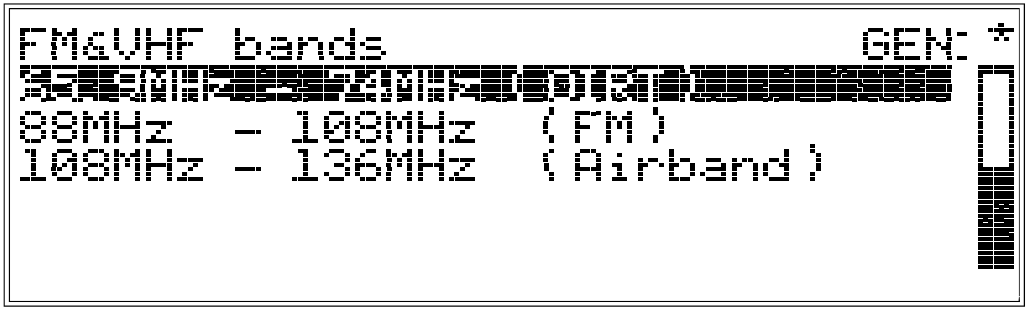

Amateur bands
GEN: *
472kHz - 479kHz (630m)
1800kHz - 2000kHz (160m)
3500kHz - 3800kHz (80m)
5351.5kHz - 5366.5kHz (60m)
7000kHz - 7200kHz (40m)
10100kHz - 10150kHz (30m)
14000kHz - 14350kHz (20m)
18068kHz - 18168kHz (17m)
21000kHz - 21450kHz (15m)
24890kHz - 24990kHz (12m)
26965kHz - 27860kHz (CB)
28000kHz - 29700kHz (10m)
70MHz - 70.5MHz (4m)
144MHz - 148MHz (2m)



Firmware update:

You need to turn off the receiver first.

Press and hold the button [1] to turn on the radio, then release the button [1].

The screen will show a notification that the device is in DFU mode.

Connect the device data interface（TypeC) to the PC and update the software.