

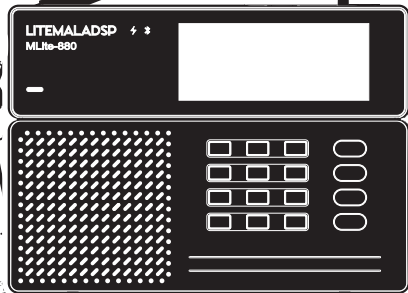
LITEMALADSP

Product manual

—MLite-880

version: V2.2

Release date: March 27, 2026



Thank you for choosing the MLite-880

Official Sales Link for MLite-880: <https://www.elecevolve.com/products/mlite-880>

More resources and technical support are available on the official self-built mall. Follow us to get a better device experience.

- ✓ Official Firmware Updates: Get performance optimizations and new features as soon as they are released.
- ✓ Complete Documentation: User manuals, application guides, drivers, software tools, etc.
- ✓ Efficient Self-Service: Specialized FAQ library to quickly resolve common issues.
- ✓ Professional Human Support: Professional engineers provide pre-sales and after-sales technical support online.
- ✓ Genuine Accessory Guarantee: Offer original equipment accessory services for your device.
- ✓ Knowledge Sharing Community: Product usage knowledge sharing, new product information, etc.

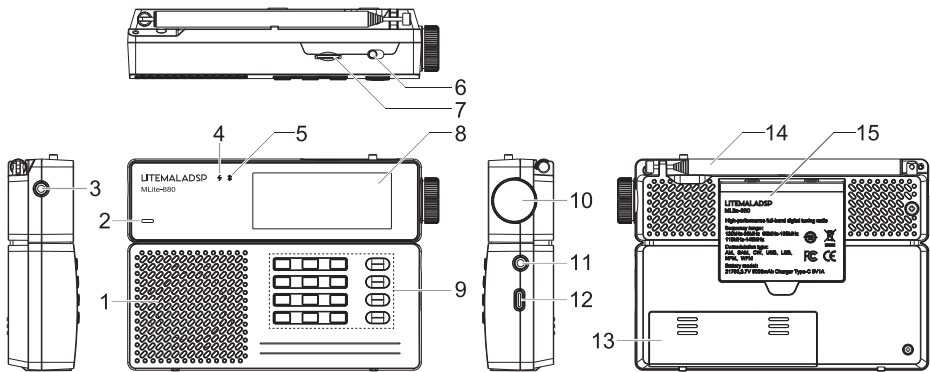
[Official Mall] Please visit: <https://www.elecevolve.com/>

[Official YouTube Channel] Please visit: <https://www.youtube.com/@elecevolve>

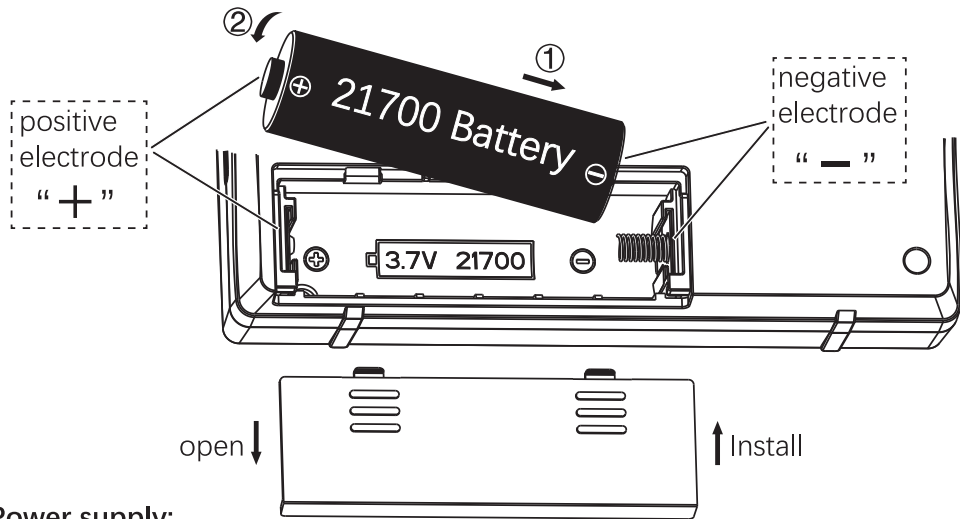
[Facebook] Please visit: <https://www.facebook.com/groups/903775729255536>

[Official Blog] Please visit: <https://www.elecevolve.com/blog/>

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 | External power supply charging input |
| 5 | Bluetooth LED | Blue | | | Data interface |
| 6 | ON-OFF | Power Switch | 13 | BATTERY COMPARTMENT | |
| 7 | TF | MICRO SD (16G) | 14 | Antenna | Rod Antenna |
| 8 | LCD | DOTS192X64 | 15 | Support frame | |



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

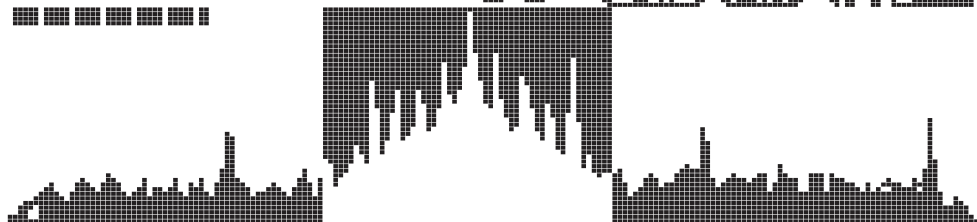
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SRB 00 00

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Display function indicator

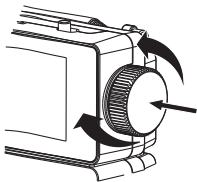
| Indicator | Description | Operate | Indicator | Description | Operate |
|--|--------------|-------------|---|-------------|---------|
|  | S meter | [5]-[A]-[1] |  | AM mode | [2]-[5] |
|  | Audio output | [A] |  | SAN mode | [2]-[6] |
|  | SQL trun on | [B] |  | NFM mode | [2]-[7] |
|  | NR trun on | [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 instructions

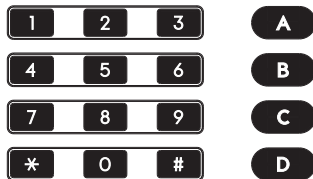
The operation of MLite-880 is based on the combination of keyboard and knob

TUNING

Encoder with
switch



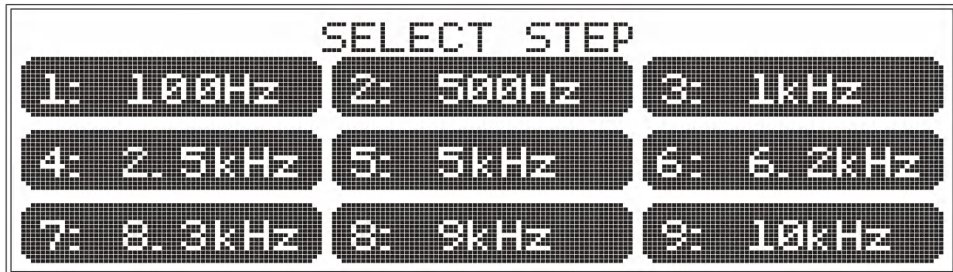
Key board



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] | Screen OFF |
| [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 | | |

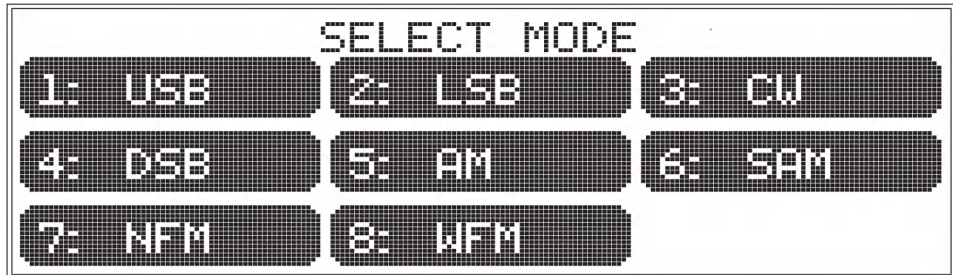
Keyboard button [1] - Frequency Step Selection menu



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 Press key [D] to Exit menu

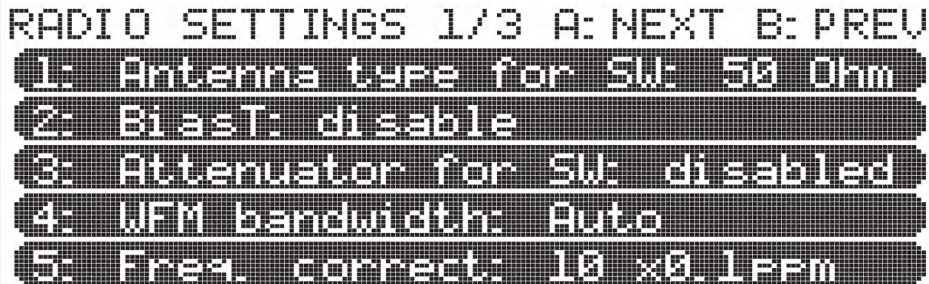
* WFM is only available within the frequency range of 65-108MHz

Keyboard 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



```
RADIO SETTINGS 1/3 A: NEXT B: PREV
1: Antenna type for SW: 50 Ohm
2: BiasT: disable
3: Attenuator for SW: disabled
4: WFM bandwidth: Auto
5: Freq. correct: 10 x0.1PFM
```

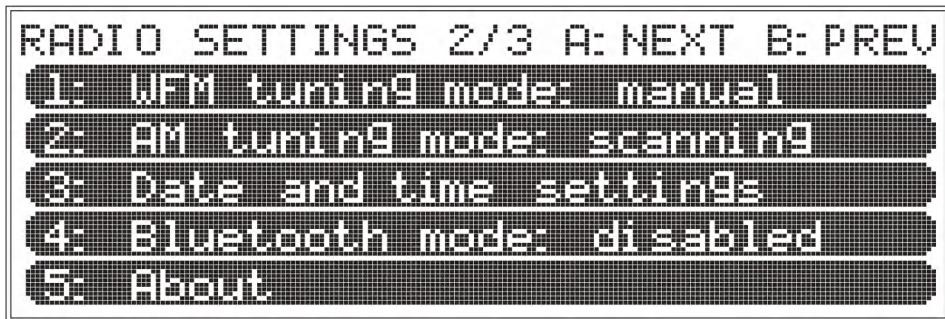
- [1] Select input antenna impedance for SW: 50 Ohm / Hiz

- [2] Turn on/off the power LED: disable / enable

- [3] High frequency attenuator (ATT) : disabled / 6 -36

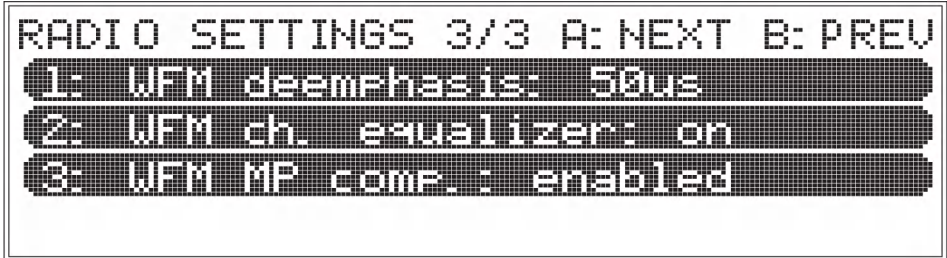
* Rotate [knob] to adjust the ATT value(db)

- [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)



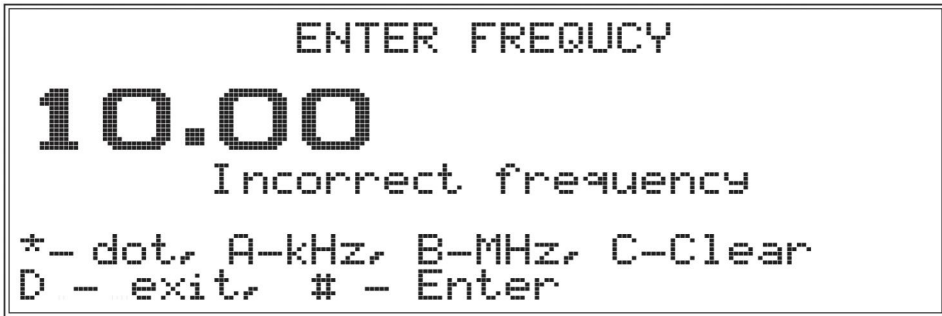
- [1] WFM channel search mode: manual / scanning
- [2] AM channel search mode: manual / scanning
 - * IN scanning mode, return to the main interface.
 - Rotate [knob] forward or backward to search for channels up or down
- [3] Date and time settings
 - * 1. Time setting <HH: MM> Enter the time by pressing the keyboard digits
 - * 2. Date setting <DD: MM: YYYY> 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



- [1] WFM deemphasis: disabled / 50us / 75us
 - * Rotate [knob] FM de-emphasis time constant
- [2] WFM ch. equalizer: disabled / on
 - * FM channel equalizer
- [3] WFM MP comp: enabled / disabled
 - * FM multipath suppression mode

Keyboard button [4] - Manually Input Frequency



Input Frequency by pressing the keyboard buttons

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

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

Keyboard 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

VISUAL SET. 1/2 A: NEXT B: PREV

1: Brightness level: maximal

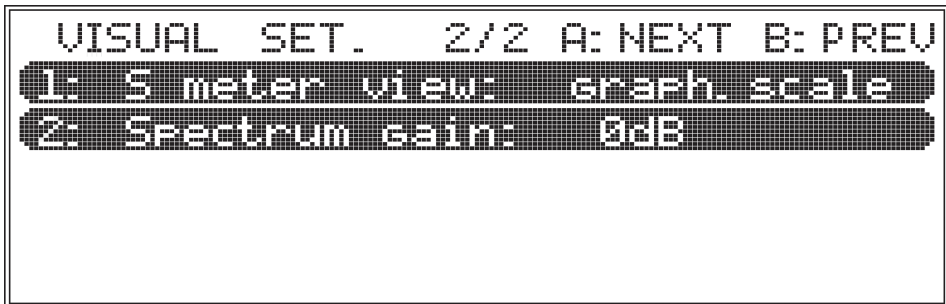
2: Brightness off time: 30

3: Spectrum average: 80

4: Spectrum fill: enable

5: RDS view: disable

- [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 / value in dBm / graph. scale
 - * graphically or numerically indicating signal strength
 - * Invalid in FM mode
- [2] Frequency pectrum gain: -20 to 20dB
 - * Adjust the Y-axis scale value of the spectrum curve
 - * Rotate [knob] to set the value

Keyboard 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

AUDIO SETTINGS 1/3 A: NEXT B: PREV

1: Flt type: Narrow

2: Flt low freq: 0.00kHz

3: Flt high freq: 12.00kHz

4: NR level: 17

5: WFM stereo: disable

- [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:

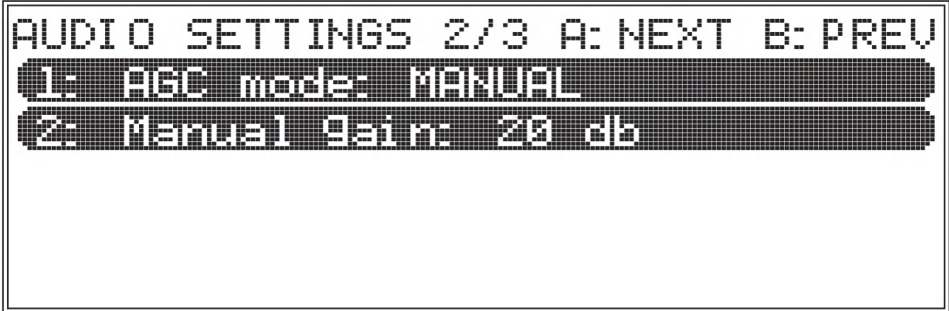
* Rotate [knob] to set the frequency(Auto save)

- [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



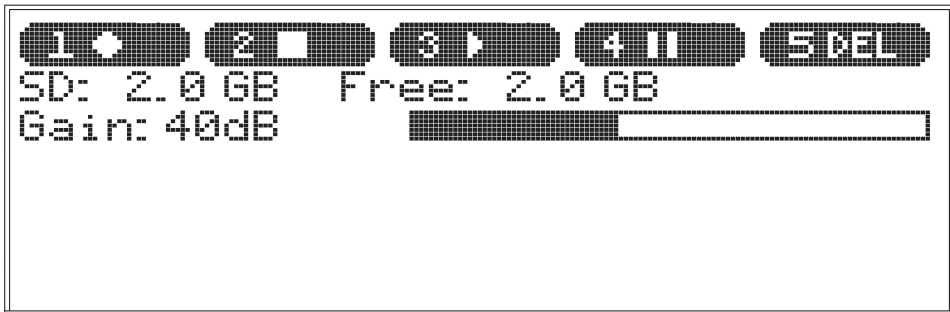
- [1] AGC mode: MANUAL/FAST/MIDDLE/SLOW/LONG
 - [2] AGC limit: 40 - 90(db)
 - [3] AGC gain: 0 - 60(db)
- *Rotate[knob] to set the AGC mode and AGC threshold(db)

```
AUDIO SETTINGS 3/3 A: NEXT B: PREV
1: NB mode: NB disable
2: NB threshold: 2.1
3: Equalizer type: SOFT
4: Key beep level: 1
5: SQL threshold: -117
```

- [1] NB mode: NB disable / 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 value
 - [5] SQL threshold: -30 dBm - -120 dBm
 - * the threshold for triggering the SQL noise suppressor
 - * Rotate [knob] to set SQL
-

Keyboard 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 $\frac{3}{4}$ of the scale
- [2] STOP

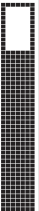
- * Simultaneously return the record list
 - * Create a file of the current recording content and automatically add it to the list
 - * Information: channel, file size, date
- [3] PLAY
- * Rotate [knob] to Select a file , press key [3] to play, [2] Return to List
 - * press key [knob key] to convert 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
-

Keyboard button [8] - Channel Record

Page 01: free cells 45

MEMORY CHANNEL

| | | | |
|----|------|------------|-----|
| 01 | mem1 | 7.50MHz | LSB |
| 02 | mem2 | 7.100MHz | CW |
| 03 | mem3 | 9.650MHz | AM |
| 04 | mem4 | 65.0MHz | WFM |
| 05 | mem5 | 127.800MHz | NFM |

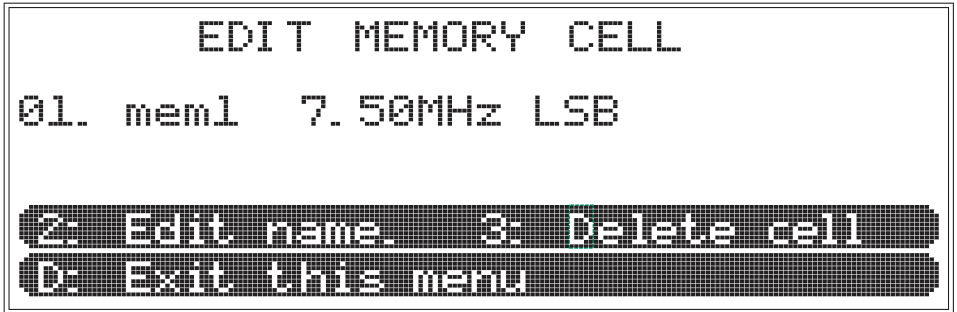


press key [A] / [B] to Switch page, Rotate [knob] to Browsing List

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 the channel from the list
- [D] Exit this menu : return

EDIT MEMORY CELL

Mem1

A: Next, B: Prev

*: Restore text

D: Return to Previous menu

- [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 8 characters)

Keyboard button [0] - Bands

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

* Rotate [knob] to Select frequency band

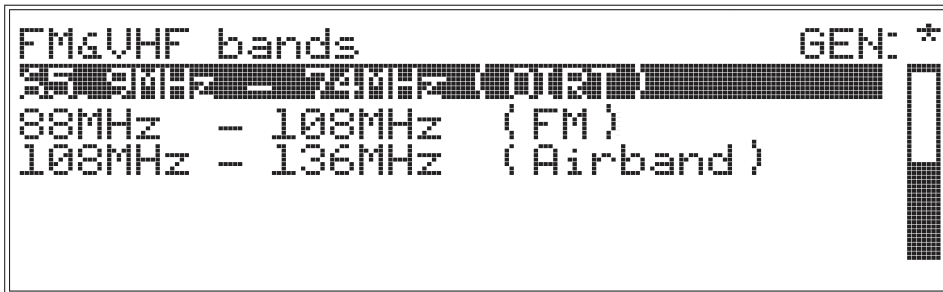
press key [#] to enter and return to the main interface

press key [D] to Exit menu

Broadcast LW, MW, SW bands GEN: *

| | | | |
|-----------|---|-----------|----------|
| 522 kHz | - | 1620 kHz | (MW) |
| 2300 kHz | - | 2495 kHz | (120m) |
| 3200 kHz | - | 3400 kHz | (70m) |
| 3900 kHz | - | 4000 kHz | (70m) |
| 4750 kHz | - | 5060 kHz | (60m) |
| 5900 kHz | - | 6200 kHz | (49m) |
| 7200 kHz | - | 7450 kHz | (410m) |
| 9400 kHz | - | 9900 kHz | (310m) |
| 11600 kHz | - | 12100 kHz | (210m) |
| 13570 kHz | - | 13870 kHz | (220m) |
| 15100 kHz | - | 15800 kHz | (190m) |
| 17480 kHz | - | 17900 kHz | (160m) |
| 18900 kHz | - | 19020 kHz | (150m) |
| 21450 kHz | - | 21850 kHz | (130m) |
| 25600 kHz | - | 26100 kHz | (11m) |

| Amateur bands | | GEN: * |
|--------------------------------------|--|----------|
| 14500kHz - 14800kHz (20m) | | |
| 4750kHz - 4790kHz (630m) | | |
| 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 device first.

Press and hold button [1] while turning on the device, then release button [1].

The screen illuminates and prompts that the device is in DFU mode.

Connect the device to the computer by Type-C cable and update firmware.

Our website offers a convenient upgrade method. Download the latest firmware from the website.

<https://www.elecevolve.com>