CT 710

► Instruction guide

VHF/UHF TRANSCEIVER |

Sommario

Content:

- CT 710 transceiver
- Antenna
- Li-ion battery pack 1600mAh
- Belt clip
- Desktop charger with wall adaptor
- Quick Guide

If any items are missing or have been damaged during shipment, please notify your MIDLAND dealer.

Maintenance

Your transceiver is an electronic product of exact design and should be treated with care .The suggestions below will help you to fulfill any warranty obligations and to enjoy this product for many years.
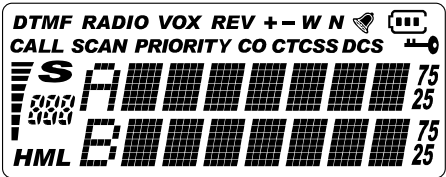
- Do not attempt to open the unit. Non-expert handling of the unit may damage it.
- Do not store the radio under the sunshine or in hot areas. High temperatures can shorten the life of electronic devices, and warp or melt certain plastics.
- Do not store the radio in dusty and dirty areas.
- Keep the radio dry. Rainwater or damp will corrode electronic circuits.
- If it appears that the radio diffuses peculiar smell or smoke, please shut off its power immediately and take off the charger or battery from the radio.
- Do not transmit without antenna.

Main functions

- Dual band (VHF/UHF) displayed
- Frequency band:144-146MHz & 430-440MHz (Rx / Tx).
- Working mode: UHF-VHF, VHF-VHF or UHF-UHF
- Output power: 5W VHF /4W UHF
- 128 stored channels
- Scrambler (levels can be programmed via software)
- Compander (programmable via software)
- VOX function
- 210 DCS codes and 50 CTCSS tones
- "VOICE" function
- SOS emergency function
- Channel spacing selectable between 25kHz and12,5 kHz
- Following options can be shown on the display: channel name + channel number, channel number + frequency, channel number, or frequency
- Inverted frequency function
- Scan function
- FM radio receiver
- Frequency Step: 5 kHz, 6.25 kHz, 10 kHz, 12.5 kHz, 25 kHz,
- Selectable tx power: high (4-5W)or low (1W)
- Li-Ion battery pack 1600mAh
- Frequency Offset: 0-69.950 MHz
- Shift repeater
- "Busy channel lockout" frequency (programmable via software)
- Tx signal strength indicator on the display
- Low battery vocal indication
- Roger Beep tone at the beginning or end transmission
- TOT (Time out timer)
- Keypad lock
- Scan of frequencies with CTCSS/DCS
- Scan priority
- DTMF
- Reset of functions and channels
- 1750 / 1450 / 2315 tone to connect to repeaters (programmable via software)
- Jack for external speaker/mike: **2 Pin KENWOOD type**

Description of the device

LCD display

Indicators:

DTMF	DTMF codes
RADIO	FM radio
VOX	Vox function
REV	Inverted frequency (reverse)
+ −	Frequency offset +/-
W N	Channel spacing wide/narrow
🔔	ID code activation
🔋	Battery level
CALL	Emergency call
SCAN	Scan
PRIORITY	Priority scan
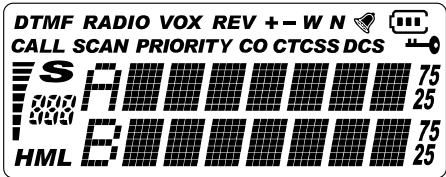
CO	Compander
CTCSS	CTCSS tone
DCS	DCS code
🔑	Keypad lock
‖	RSSI - Potenza segnale ricevuto/trasmesso
S	Scrambler
888	Menu/channel number
HML	High/middle/low power transmitting
A	Band A selected
B	Band B selected
▦▦	Frequency

Transceiver
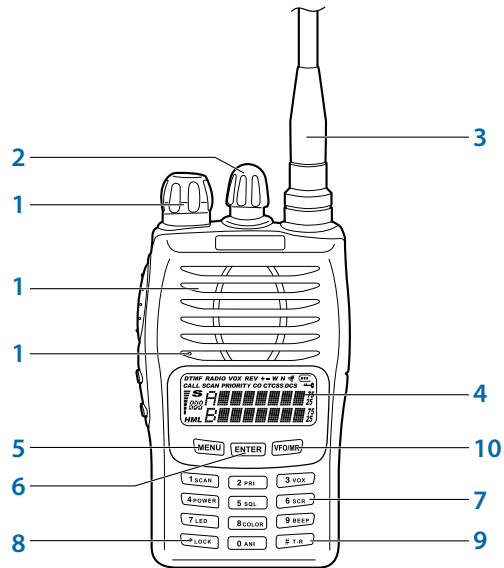
1. **Power switch/volume control**
2. **Encoder** Knob
3. **Antenna**
4. **LCD display**
5. **MENU**
6. **ENTER** (To enter the menu functions and confirm your selections)
7. Alphanumerical **keypad**
8. **LOCK** (keypad lock)
9. **T-R** (Frequency inversion activation)
10. **VFO/MR** (to change the radio modes)
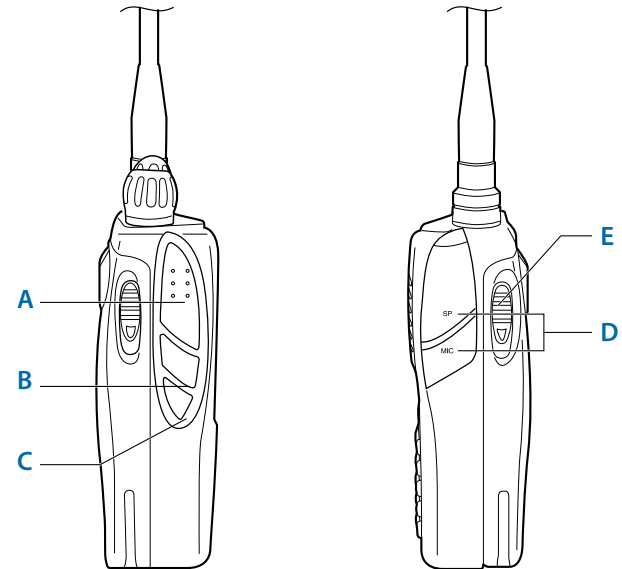
A   **PTT** (push to talk) key
B   **Flank key1:** A/B frequency selector - single or dual band -, FM radio
C   **Flank key2:** 1750/1450/2315 tone (programmable) or DTMF (programmable)
D   **Ext. speaker/microphone jack**
E   **Battery latches**

Basic operations

Antenna

Insert the base of the supplied antenna into the SMA connector by rotating the antenna clockwise, then make sure that it has set down. Take out the antenna from the base by counter clockwise rotation until pull out it from SMA connector.

Turning on and off the power

If you want to turn on the power, rotate the **PWR/VOL** (turning on) knob clockwise until a beep sound is heard. All icons and frequencies appear on the screen. (Due to the automatic squelch function, the speaker will not send out any sound before receiving a call). You can adjust your desired volume by turning the button. If you want to turn off the power, turn **PWR/VOL** knob in counter clockwise rotation until a beep is heard. All icons and frequencies disappear from the display.

Monitoring function

If you hold down the **ENTER** key for two seconds and adjust your desired volume by **PWR/VOL** knob, you can directly hear a background noise without waiting to receive any signals. If you press the **PTT** key, the squelch will turn off.

Transmitting

Press the **PTT** key then speak to the radio in ordinary tone. The transmitting indicator lights up red while the **PTT** key is pressed.
If you are too close to the microphone or your voice is too loud, the reception won't sound clear.
Release the **PTT** key so as to listen a response from your partner.

Select Mode

You can select four different operative modes:
1. Dual-band mode
2. Single band mode
3. Channel mode

4. Frequency mode.
Press **flank key1** for two seconds to enter or exit the dual-band or single-band mode.

Dual-band mode

When the dual-waiting mode is selected, the display will show two bands A or B. When the band A is displayed, it means that frequency A can receive and transmit, but the other frequencies on the B band can only receive and cannot transmit. Same thing if the band B is displayed. To switch to A or B band press briefly **flank key1**.
Single-band mode
Press **flank key1** for two seconds. The display will show:

```
R 145.025
T 145.025
```

Now the radio works in single band mode only. To switch from one band to another, press **flank key1**.

Channel Mode

Press the **VFO/MR** key to switch to channel mode. Different options can be displayed:

• **Display the current channel number**

```
CH-001
```
   the current channel is the first channel.

• **Display the current channel name and channel name**

```
CH-001
```
   current channel name in use
   (in this case channel 1).
   The name is programmable via software.

```
001
```
   current channel

• **Display the receive / transmit frequency and the current channel**

```
R 145.025
```
   receive frequency
```
T 145.025
```
   transmit frequency
```
001
```
   current channel.

Frequency Mode

'SINGLE BAND'

`R 430.02500`   receive frequency

`T 430.02500`   transmit frequency

'DUAL BAND'

`A 145.025`

`B 430.025`

Press **flank key1** for two seconds to enter or exit the dual-band or single-band mode.

Radio Function

This radio comes with the FM function.
Press **MENU** and then **flank key 1 or 2** to enter the radio status.
To select your favorite radio frequency to listen directly, turn the **encoder**. Radio stations can be programmed by software and push the **VFO/MR** to switch to the programmed radio frequencies.
To exit the radio **encoder**, press the **MENU** and then **flank key 1 or 2**.

The Flank Key Definition

By using the programming software, you can define the flank key 2 as:
1. DTMF code call
2. send 1450Hz code
3. send 1750Hz code
4. send 2315Hz code
When defined as one of the above, push the **flank key** to activate the selected function.

DTMF Code

This radio has the DTMF function.
In the transmitting status, press the numbers on the keypad or the flank keys and the corresponding DTMF code will be issued. The DTMF code issued by the key buttons are as follows:
MENU stands for **A**, **ENTER** stands for **B**, **VFO/MR** stands for **C**, **FM** stands for **D**.

MENU → `A`   **VFO/MR** → `C`

ENTER → `B`   **Tasto laterale 2** → `D`

DTMF programmed by software
(see the instructions of the Programming software)

Once the optional call signaling DTMF function is programmed on the desired channels, press the **flank key2** and the display will show DTMF.
Now you can input the 8-digit DTMF codes.
If the input number is wrong and you want to change it, rotate the **encoder**.
Counterclockwise rotation delete one by one, clockwise to exit the DTMF function. Input your desired number, press **PTT** key to make a call. When your partner receives the correct code, the programmed DTMF function or the radio identification will be done.

ANI PTT-ID Operation

ANI means Automatic Numbering Identification.
You can set an automatic number identifier visible from the radio's display of your partner each time you send a call signal. This function must be activated on both radios and must be programmed by software (see the instructions of the Programming software).

Shortcuts Operation

MENU + **0**	ANI setting
MENU + **1**	scan mode
MENU + **2**	priority scan mode (only in VFO mode)
MENU + **3**	VOX Sensitivity setting
MENU + **4**	output power setting
MENU + **5**	SQ adjust
MENU + **6**	scrambler on/off setting
MENU + **7**	backlight on/off setting
MENU + **8**	backlight color setting
MENU + **9**	beep on/off
MENU + **#**	receive and transmit CTCSS/DCS setting
MENU + *****	S-D +/- potential difference setting

Menu function

Menu Operation

To enter the Menu functions, follow this procedure:
Press **MENU** to enter the menu mode.
Turn the **encoder** to select the menu.
Press **ENTER** into the menu mode to set the desired function: you can press the number key directly, but for some functions (such as TOT, Voice, Frequency offset) you have to rotate the **encoder** to find the desired option. Press **ENTER** to confirm the selected setting.
When you have completed all the setting, press **VFO/MR** to exit the **Menu** mode.

Menu Function List

Menu	display	Instruction	Setting contents
1	SCAN	Channel or frequency scan	CHANNEL OR FREQUENCY SCAN
2	PRI	Priority Channel Scan	PRIORITY CHANNEL SCAN
3	VOX	VOX Sensitivity	OFF~9
4	POW	Transmission power	HIGH/LOW
5	SQL	Squelch threshold setting	0~9
6	SCRM	Scrambler	OFF/ON
7	LED	Backlight On/Off setting	OFF/ON/AUTO
8	LIGHT	Backlight color select	BLUE/ ORANGE/PURPLE
9	BEEP	Beep	OFF/ON
10	ANI	Automatic number identification programmable via software	OFF/ON
11	KEYBO	Keypad lock	MANUAL/AUTO
12	TOT	Time Out Timer	OFF~270
13	SCANS	Scan selection	CO/TO/SE
14	VOICE	Voice prompts	OFF/ENG
15	DIFFR	Offset	0-38.000(VHF) - 0-69.950(UHF)
16	C-CDC	Receiving and transmitting CTCSS/DCS	OFF-254.1/D023-D754 I/N
17	R-CDC	Receiving CTCSS/DCS	OFF-254.1/D023-D754 I/N
18	T-CDC	Transmitting CTCSS/DCS	OFF-254.1/D023-D754 I/N
19	S-D	Potential difference	+/-/0
20	STEP	Channel stepping	5K/10K/6.25K/12.5K/25K
21	N/W	Narrow/wide bandwidth	WIDE/NARROW
22	ROGER	Roger Beep	ROG ON/ROG OFF

Menu Function introduction and setting

Emergency Alarm

There are two types of alarms:

1. Press **flank key 2** and **flank key 1** at the same time: the radio will go to emergency alarm and will send out, at the same time, the alarm sound and **ANI** to your partner (if programmed). The alarm stays active till the **PTT** is pressed.

2. By means of the programming software, an emergency channel can be specially set. To activate it, press briefly **# T/R**: now you can transmit on the selected emergency frequency. To exit, press **VFO/MR**.

Setting Reverse Frequency Function

In channel/Frequency mode, hold down **#** for two seconds until "T*R?" appears. When "REV" is displayed on the LCD, the Reverse frequency function is enabled. To deactivate this function, hold down **#** for two seconds.

Scanning

The Scan version is very useful to monitor the channels before transmitting.

Select scan type

Press **MENU** and rotate the **encoder** to item **13**, the screen will display "013 SCANS?".
Press **ENTER**: now you are into the scanning mode selection.
You have three types of scanning to choose amongst: **TO, CO, SE**.

Time-operated scan (TO)

When the radio detects a signal it will stop scanning; the status will remain about 5 seconds but the radio will continue to scan even if the signal is still there.

Carrier-operated scan (CO)

The radio will stop scanning when detects a signal and remains on the same frequency until the signal is missing.

Search Scan (SE)

When the radio detects a signal, it remains on that channel and stop scanning.

Frequency or channel scan

In channel /frequency mode, press **MENU** and **1SCAN**: the radio will scan from current channel through all the channels and, whenever any signal is detected, the radio will stop scanning for 8 seconds. Then press **PTT** to transmit: it will then continue to scan after 8 seconds.
Press any key except **PTT** to end scanning: the radio will return to the channel or frequency in use before starting the scan function.

Priority channel scan

Priority scan means that the radio starts scanning from the priority channel first and then scans the other channels. For example, if the priority channel is 1, the scan will be 1-2;1-3;1-4;…….

Procedure:

In channel mode ,press **MENU** and **2PRI**: the radio will scan priority channel, whenever any signal is detected, the radio will suspend the scan for 8 seconds, then press **PTT** key to transmit. It will then continue to scan after 8 seconds.
Press any key except **PTT** key to end scanning.

VOX Sensitivity Setting

This function allows hand-free communications: you activate the transmission when you speak to the microphone without pressing the **PTT** button. It stops transmitting automatically once you stop speaking. The sensitivity can be adjusted in different levels that can be set upon your needs.

Procedure:

In Frequency mode, press **MENU** and **3VOX** keys: the screen will display "003 VOX?".
Press **ENTER** and the display will show "VOX OFF".
To adjust the desired sensitivity level, press any number key (0-9) on the keypad or rotate the **encoder**.
To confirm your selection press **ENTER** and **VFO/MR** to exit.

Power Setting (high or low)

With this function you can select the power level, you can choose between **High** (H) and **Low** (L).

In channel/frequency mode, press **MENU** and **4PWR**: the screen will display "004 POW?".

Press **ENTER** and the display will show "POW L" (low power) or "POW H" (high power): turn the **encoder** knob to select the desired power level.
To confirm your selection press **ENTER** and **VFO/MR** to exit.

Squelch Threshold Setting

This function turns on the Squelch when the signal is strong; the Squelch will stay off when the signal is weak. Set the same DCS codes of your group and turn on the squelch.
By setting the level too high, you may not receive the weak signals; while by setting it too low you may receive noises or undesired signals.

NOTE:

This transceiver has ten (0~9) available levels: 0 means that the Squelch is turned on. From level 1 to level 9 you will have different levels of noises reduction. The higher is the level, the louder will be the Squelch.

Procedure:

Press **MENU** and **5SQL**: the screen will show "005 SQL?".
Press **ENTER** and the display will show "SQL 5"(Factory Settings " SQL 5").
Press any number (0-9) on the keypad or rotate the **encoder** to select the desired squelch level.
Press **ENTER** as confirmation and press **VFO/MR** to exit.

Scrambler Setting

The scrambler is designed to protect communications.
This feature prevents parties of other networks from hearing and understanding voice communications.
Procedure:
Press **MENU** and **6SCR** key and the display will show "006 SCRM?".
Press **ENTER**: you will see on the display "ON" (scrambler on), "OFF" (scrambler off).
Turn the **encoder** to select on/off and press **ENTER** to confirm; press **VFO/MR** to exit.

Backlight On/Off Setting

In channel/frequency mode, press **MENU** and **7LED**.

The screen will show "007 LED?". Press **ENTER** and you will see on the display "ON" (backlight on). Turn the **encoder** to select "ON" "OFF" "AUTO".
Press **ENTER** to confirm, and **VFO/MR** to exit.

Backlight Color Selection

In channel/frequency mode, press **MENU** and **8COLOR**: the display will show "008 LIGHT?".
Press **ENTER** and by turning the **encoder**, you have the color options: "ORANGE", "PURPLE", "BLUE".
Press **ENTER** to confirm the desired backlight color and **VFO/MR** to exit.

Beep On/Off

If you enable this function, every time a button is pressed, you will hear a Beep tone.
In channel/frequency mode, press **MENU** and **9BEEP**: "009 BEEP?" will appear on the display.
Press **ENTER**: "ON" means beep on, "OFF" means beep off; turn the **encoder** to choose one of the two options. Press **ENTER** to confirm and **VFO/MR** to exit.

Keypad Lock Function Setting

This function is useful to lock the keypad and so, avoid any accidental pressure of the buttons.
Press **MENU** and turn the **encoder** to item **11**: the screen will display "011 KEYBO?".
This transceiver has 2 types of Keypad lock available: Auto-lock and Manual-lock.
Press **ENTER**: the display will show "AUTO" (keypad lock turns on automatically).
Turn the **encoder** to select "MANUAL/AUTO", then press **ENTER** to confirm and **VFO/MR** to exit.
You can also press ***LOCK**: the display will show "LOCK?" .
If you want to lock the keypad hold down ***LOCK** for 2 seconds. To unlock the keypad, press ***LOCK** again for 2 seconds: the keypad will be unlocked.

Transmitting TOT Setting

The TOT function is used to prevent a too long transmission. This function temporarily blocks transmissions if the radio has been used beyond the maximum time permitted. Once reached the preset timer, the radio will be forced in reception mode.
This unit can set OFF/30-270 seconds continued transmitting limit, it will send out warning sound when the limit transmitting time is coming.

Procedure:

Press **MENU** and turn the **encoder** to item **12**: "012 TOT?" will be displayed. Press **ENTER** : the display shows "OFF" (TOT off). Turn the **encoder** to choose "OFF~270", then press **ENTER** to confirm and **VFO/MR** to exit.

Voice Function (only in English)

With this function, you activate a voice that informs about any operation/selection you are doing.
Press **MENU** and turn the **encoder** to menu item **14**: the display will show "014 VOICE?". Press **ENTER**.
Turn the **encoder** to choose "ENG"; press **ENTER** as confirmation and **VFO/MR** to exit.

OFFSET DIFFR

This function is used to determine the difference (Potential Difference) between sending frequency and receiving frequency.
In frequency mode, press **MENU** and turn the **encoder** to item **15**; the display will show "015 DIFFR?". Press **ENTER** to set the frequency with the keypad or by rotating the **encoder**.
The VHF range is 00.000-38.000(MHz) and the UHF range is 00.000-69.950(MHz).
Press **ENTER** to confirm and **VFO/MR** to exit.
This function can only be enabled in VFO mode. The maximum offset depends on the selected frequency range.

Selecting the CTCSS tones and DCS codes

Set the CTCSS tones to ignore unwanted signals from other users of the same frequency.
CTCSS tones enable the radio to communicate with the users that are tuned on the same channel and have set the same CTCSS tone.

The CTCSS tones available are 50, while DCS codes are 105I and 105N.

Procedure:

Press **MENU** and **#T-R** keys, the display will show "016 C-CDC?".
Press **ENTER** and turn the **encoder** to select desired CTCSS (OFF-254.1).
Press ***** to switch CTCSS and DCS. The DCS range is OFF-D754N.
Press **ENTER** to confirm and **VFO/MR** to exit.

Setting the receiver CTCSS/DCS (R-CDC)

Press **MENU** and turn the **encoder** to select "017 R-CDC?".
Press **ENTER** and turn the **encoder** to select desired CTCSS (OFF-254.1).
Press ***** to switch CTCSS and DCS. The DCS range is OFF-D754N.
Press **ENTER** to confirm and **VFO/MR** to exit.

Setting the transmitting CTCSS/DCS (T-CDC)

Press **MENU** and turn the **encoder** to select "018 T-CDC?".
Press **ENTER** and turn the **encoder** to select desired CTCSS (OFF-254.1).
Press ***** to switch CTCSS and DCS. The DCS range is OFF-D754N.
Press **ENTER** to confirm and **VFO/MR** to exit.

Note:
when you set the Menu of DCS codes, press [#] and you can select OFF-D754I (Inverted).

+/- Frequency shift direction (for communications through repeaters)

This function can only be enabled in VFO (frequency) mode.
In frequency mode, press **MENU** and *****: the display will show "019 S-D?".
Press **ENTER** and the display shows "S-D 0" (same frequency); turn the **encoder** and you can select "S-D+" or "S-D-". Press **ENTER** to confirm and **VFO/MR** to exit.

Selecting the Frequency Step

This function can only be enabled in VFO (frequency) mode.
In frequency mode, press **MENU** and turn the **encoder** to item **20**: "020 STEP?" will be displayed.
Press **ENTER** and turn the **encoder** to select the frequency stepping: **5k, 10k, 6.25k, 12.5k, 25k**. Press **ENTER** to confirm and **VFO/MR** to exit.

Wide/Narrow Band

In channel/frequency mode, press **MENU** and turn the **encoder** to item **21**: "021 N/W?" will be displayed. Press **ENTER** and the display will show "WIDE" (wide band).
Turn the **encoder** to select "NARROW/WIDE" and confirm by pressing **ENTER**. Press **VFO/MR** to exit.

Roger Beep

In channel/frequency mode, press **MENU** and turn the **encoder** to item **22**: "022 ROGER?" will be displayed.
Press **ENTER** and you will see on the display "ROGER" (roger beep off); turn the **encoder** to select "OFF /ON"; press **ENTER** to confirm and **VFO/MR** to exit.

To Save/delete a channel

- **Saving a channel**
  In frequency mode select the desired frequency or any other items (like CTCSS, DCS, potential difference , frequency difference direction). Press **MENU** and then **VFO/MR** keys.
  The channel to store blinks on the left bottom of the display. Turn **encoder** or select the number (from 1 to 128).
  Press **VFO/MR** key to complete the channel storage, and return to the state of the frequency mode.

- **Deleting a channel**
  Delete one programmed channel
  Turn off the radio. Turn it on again while keeping pressed the **VFO/MR** key at the same time.
  "001 DEL?" will be displayed. Turn the **encoder** to delete the channel number (from 1 to 128).
  Select the channel number that must be deleted (rotate **encoder**).
  Press the **ENTER** key and the display shows: "001 YES?".
  If you really want to delete this channel, press **ENTER** to confirm; if you don't want to delete it, press **VFO/MR** to exit.

- **Reset**
  Delete the parameters of frequency mode (Reset VFO)
  Turn on the radio while keeping pressed the **MENU** key at the same

time. The display will show "RESET?".
Press the **ENTER** key, the LCD will show "VFO?".
Press **ENTER** to confirm and all the settings of frequency mode will be deleted.

Delete all contents of frequency mode and channel mode (Reset FULL)
Turn on the radio while keeping pressed the **MENU** key at the same time. The display will show "RESET?".
Press the **ENTER** key, the LCD will show "VFO?".
Rotate the **encoder** and choose "FULL?", then press **ENTER** as confirmation. All settings of channel and frequency mode will be deleted.

CTCSS tone table: 50 tones

No	Freq.(Hz)	No	Freq.(Hz)	No	Freq.(Hz)
01	67.0	18	118.8	35	183.5
02	69.3	19	123.0	36	186.2
03	71.9	20	127.3	37	189.9
04	74.4	21	131.8	38	192.8
05	77.0	22	136.5	39	196.6
06	79.7	23	141.3	40	199.5
07	82.5	24	146.2	41	203.5
08	85.4	25	151.4	42	206.5
09	88.5	26	156.7	43	210.7
10	91.5	27	159.8	44	218.1
11	94.8	28	162.2	45	225.7
12	97.4	29	165.5	46	229.1
13	100.0	30	167.9	47	233.6
14	103.5	31	171.3	48	241.8
15	107.2	32	173.8	49	250.3
16	110.9	33	177.3	50	254.1
17	114.8	34	179.9		

DCS: Digital code 105 tones

No	DCS code	No	DCS code	No	DCS code	No	DCS code
01	023	31	165	61	356	91	627
02	025	32	172	62	364	92	631
03	026	33	174	63	365	93	632
04	031	34	205	64	371	94	645
05	032	35	212	65	411	95	654
06	036	36	223	66	412	96	662
07	043	37	225	67	413	97	664
08	047	38	226	68	423	98	703
09	051	39	243	69	431	99	712
10	053	40	244	70	432	100	723
11	054	41	245	71	445	101	731
12	065	42	246	72	446	102	732
13	071	43	251	73	452	103	734
14	072	44	252	74	454	104	743
15	073	45	255	75	455	105	754
16	074	46	261	76	462		
17	114	47	263	77	464		
18	115	48	265	78	465		
19	116	49	266	79	466		
20	122	50	271	80	503		
21	125	51	274	81	506		
22	131	52	306	82	516		
23	132	53	311	83	523		
24	134	54	315	84	526		
25	143	55	325	85	532		
26	145	56	331	86	546		
27	152	57	332	87	565		
28	155	58	343	88	606		
29	156	59	346	89	612		
30	162	60	351	90	624		

Table of solutions

PROBLEM	SOLUTION
The radio doesn't switch on	The battery may be exhausted. Recharge it. Uncorrected installation. Re-install it.
Battery recharge doesn't last long	The battery pack is over. Change it with a new one. Battery pack is not completely charged.
Reception led turns on but no sound heard	Make sure the volume is not too low Make sure to have the same CTCSS and DCS codes of your group
The keypad doesn't work	The keypad lock function hasn't been enabled.
In standby, the radio transmits without pressing PTT	VOX level has been set too low. Adjust it.
Some functions cannot be stored	Ensure to be on Channel mode. In Channel mode some functions can be set only through the programming software.
Reception of other group signal while transmitting	Select another CTCSS/DCS for your group

Technical Specification

General

Frequency range	144-146MHz / 430-440MHz
Operative temperature	-20° +55°C
Operating voltage	7.4V 1600mAh
Operating mode	mono band / dual band
Dimensions	95(H) x 55(L) 31(D) mm
Weight	230gr (antenna included)
Antenna impedance	50Ω
Duty cycle	5/5/90

Transmitter

Frequency stability	±2.5ppm
Output power	VHF: 5W / UHF: 4W
Max frequency deviation	±5KHz
Audio distortion	≤ 3%
Adjacent Channel Power	within European legal terms
Spurious Radiation	within European legal terms
Occupied Bandwidth	within European legal terms

Receiver

RF sensitivity	<0.2μV
Audio distortion	≤ 3%
Audio response	300Hz ÷ 3KHz
Adjacent Channel Selectivity	within European legal terms
Intermodulation Rejection	within European legal terms
Blocking	within European legal terms

Specifications are subject to change without notice.

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