

FT8CN Quick Manual V0.89

By [NØBOY](#)

<https://www.qrz.com/db/n0boy>

<https://github.com/N0BOY/FT8CN>



What is FT8CN?

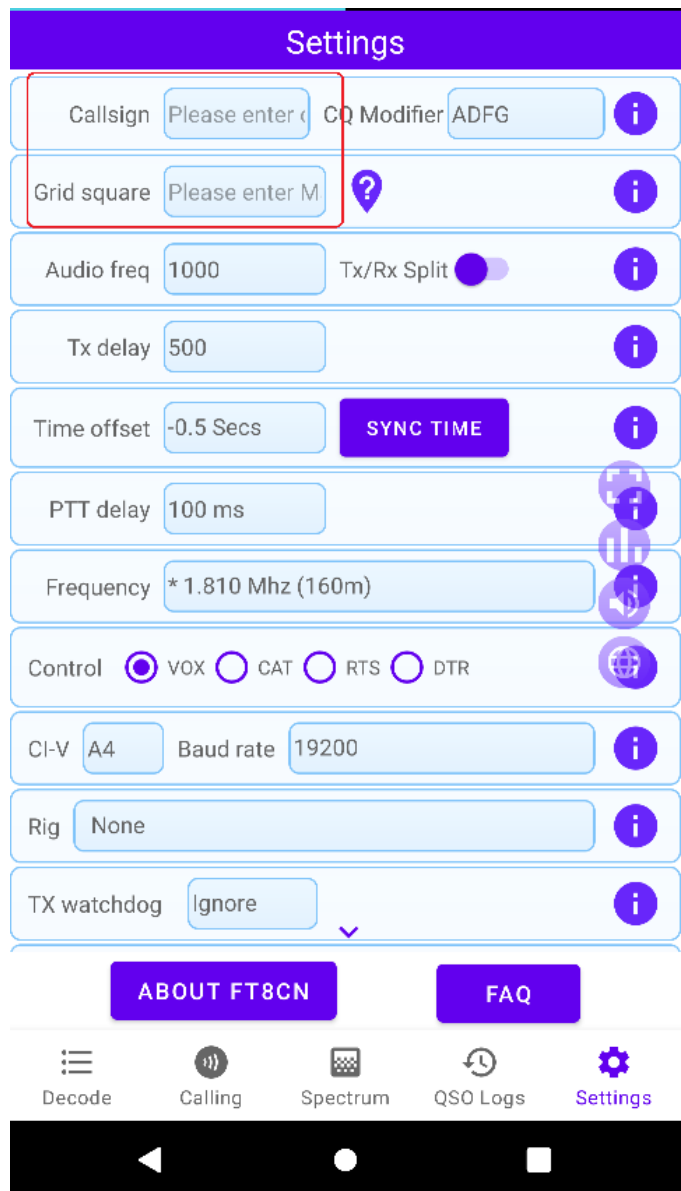
FT8CN is a mobile FT8 communication software based on Android system developed by BG7YOZ. The FT8CN is developed for easy mobile operation, especially outdoors and can be used at any time FT8 contact. The operation logic is as simple as possible, easy to use, with the basic operation of FT8 Function.

What is the minimum Android version to run FT8CN?

The minimum version of Android 6.0 is required for FT8CN operation (compatible with Hongmeng system). For a better experience, it is recommended that you try to use Use newer hardware and operating systems.

Using FT8CN for the first time

To use FT8CN for the first time, you need to set up your callsign and all In the Maidenhead grid.



What permissions does FT8CN need?

FT8CN requires the most basic permissions:

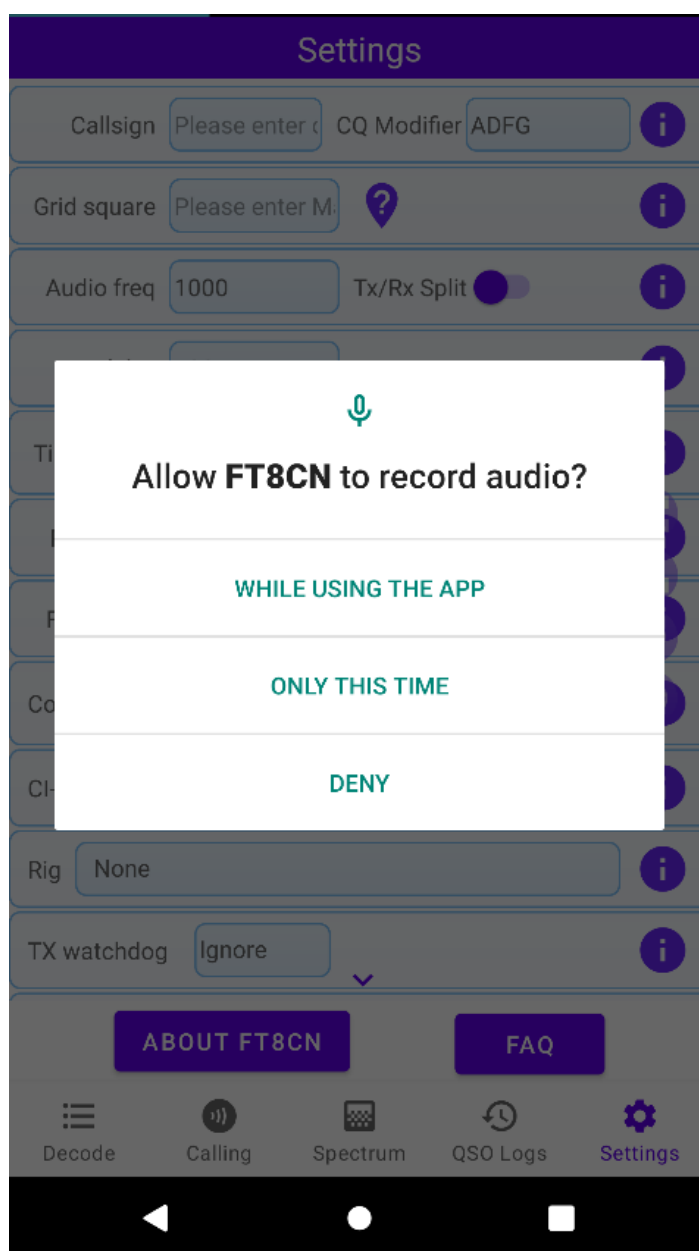
- Recording (for collecting radio sound)

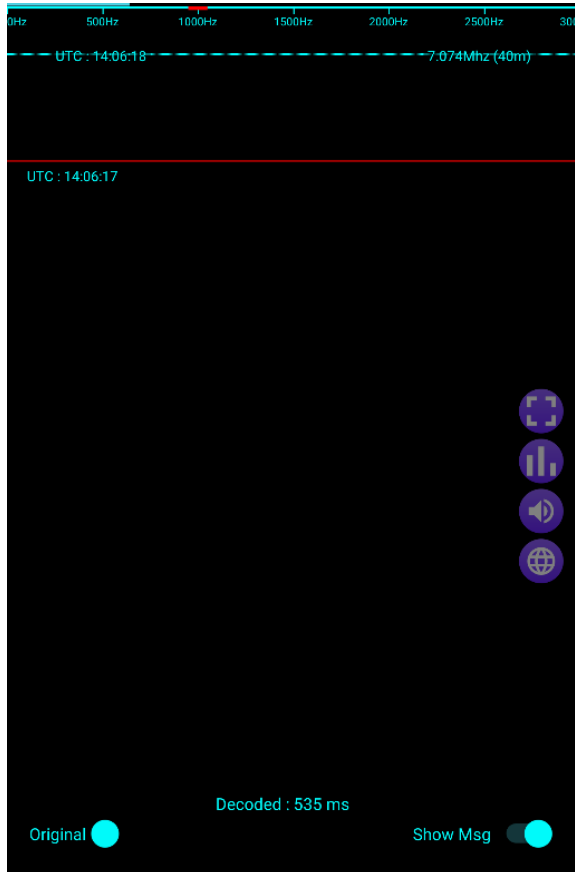
The following permissions are not required:

- Positioning (used to automatically determine the grid where the station is located)
- Bluetooth (for radios with Bluetooth modules)

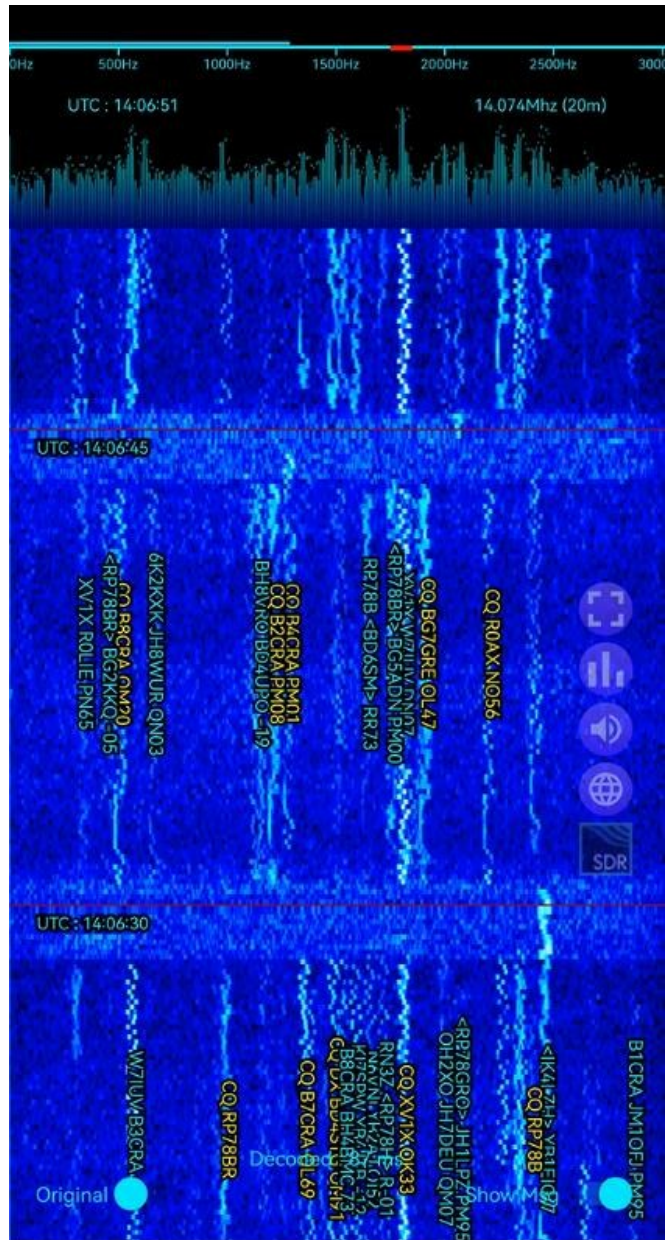
※Some devices even give recording permission when they are running for the first time. It may not be able to record, you need to restart FT8CN to record.

To determine whether the FT8CN can record normally, you can go to the spectrum interface to view the spectrum. The following picture points especially the spectrum that cannot be recorded and can be recorded normally:





Decode Calling Spectrum QSO Logs Settings



Decode Calling Spectrum QSO Logs Settings

How does FT8CN control the radio?

FT8CN can control the computer through various methods such as voice control, USB serial port, bluetooth, network, etc. tower.

The radio stations currently supporting Bluetooth control are: GUOHE Q900

Currently, the radio stations that support network mode include: some models of ICom, FlexRadio 6000 series List.

How to connect FT8CN with USB cable?

At present, many radio stations support USB serial ports and USB virtual sound cards. Connecting to FT8CN will have a good pickup effect, and the radio station can be controlled by CAT

PTT, sync frequency, operation mode, etc. (SWR and ALC report are also supported for some models policy).

Use the USB serial port to control the radio, please make sure the phone supports OTG or use OTG transfer head.

Before connecting the radio, please select your corresponding radio model and suitable baud rate, the different radio control commands are not identical, selection errors may be uncontrollable radio station.

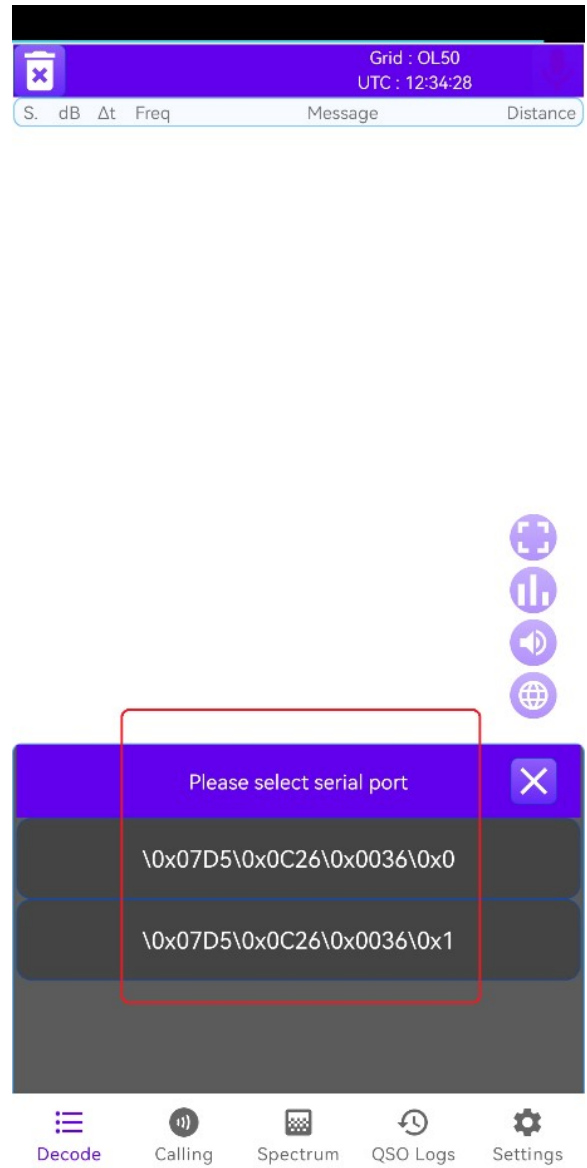
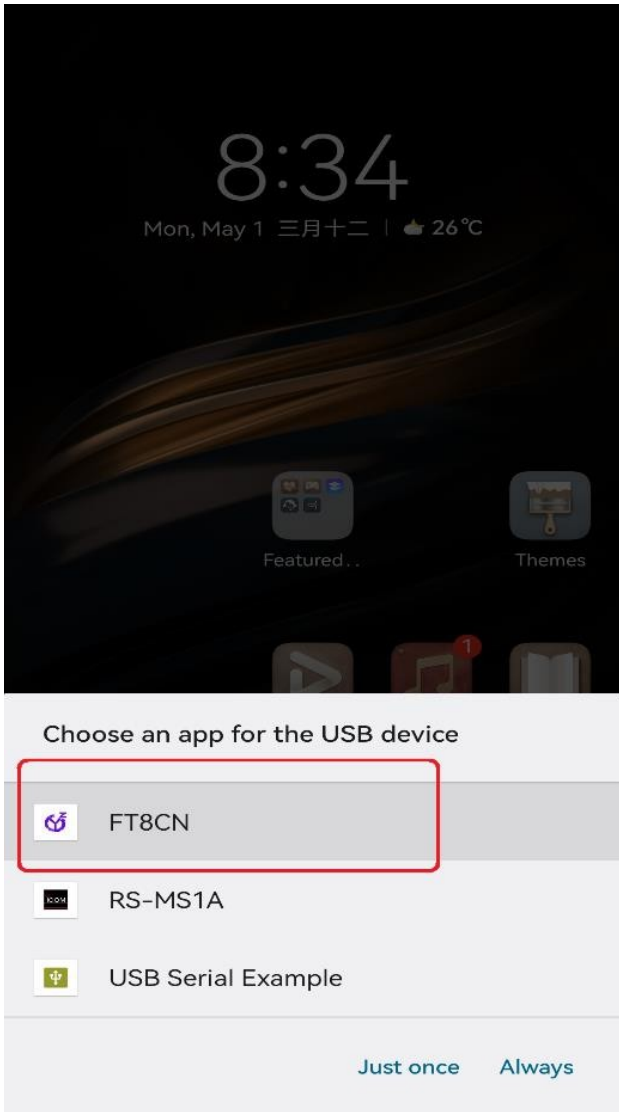
When the radio's USB cable is connected to the phone After that, a serial port authorization prompt will pop up, please select "FT8CN".

At this time, the operating system will automatically open FT8CN, and a serial port device selection window will pop up, please FT8CN Quick Manual 4

Select the serial port used to control the radio (some radios have more than 1 serial port, please select another one of them).

The image shows a screenshot of the FT8CN control interface with several settings highlighted by red boxes:

- Control:** Radio buttons for VOX, CAT (selected), RTS, and DTR.
- Connection type:** Radio buttons for USB (selected), Bluetooth, and Network.
- CI-V:** A dropdown menu set to 70.
- Baud rate:** A text input field set to 19200.
- Rig:** A dropdown menu set to ICOM IC-7000.



How to import and export contact logs?

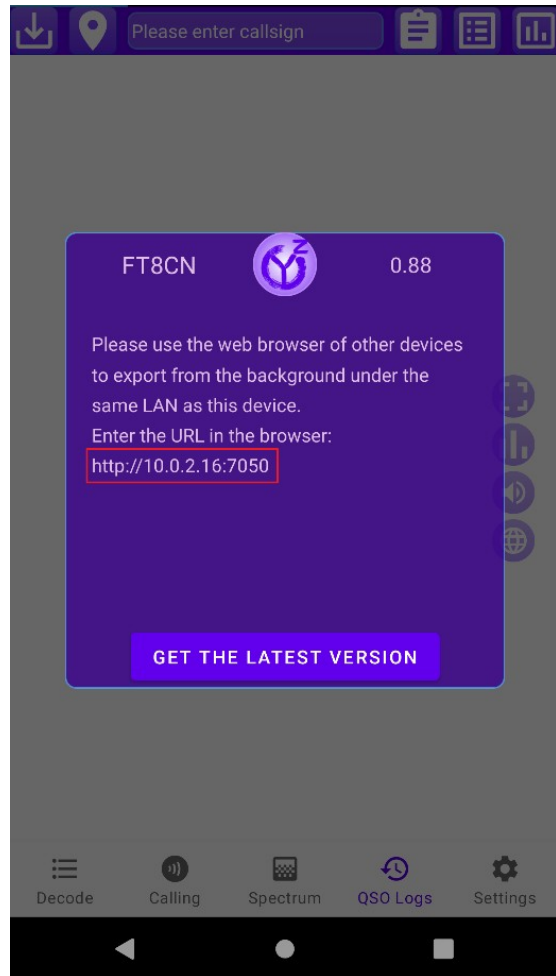
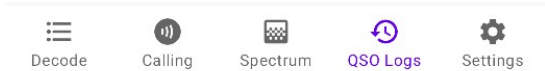
FT8CN contact log backup operation, or upload to a third-party platform (such as LotW or QRZ) confirmation, and to import the log confirmed by the third-party platform back to FT8CN, you need to pass Access the background through the LAN to operate. On the "Contact Records" page, click



button, a background operation URL will pop up dialog box.



click



In the same LAN as FT8CN, in the browser Enter the corresponding URL in , and you will enter the back of FT8CN tower.

※The import operation of FT8CN will intelligently identify the log is No duplicates, and the confirmation status of the intelligent update log.

Welcome to FT8CN 0.88

Return

Monitoring operation information

Monitor callsign hash table

Monitor parsed messages

Monitor the correspondence between call sign and grid

Query decoded messages(SWL)

Query the QSOs of SWL

Query configuration information

Query all data tables

Manage tracked callsigns

Show QSO callsigns

QTH of callsign

Query the logs

Export logExport log (for backup and log uploading to a t

Import logExport logs (used for backup, uploading logs to

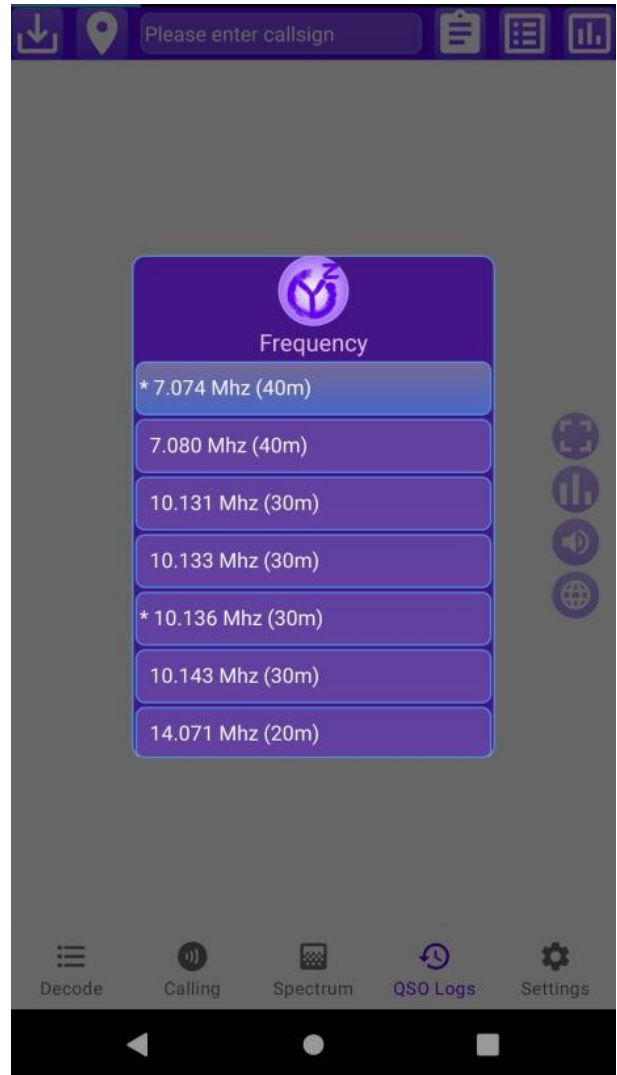
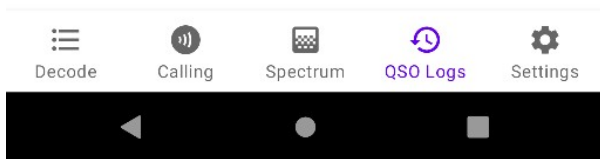
BG7YOZ

How to quickly switch the frequency band of the radio station?

Click the button on the floating button on the FT8CN interface



The frequency selection column will pop up table, select the frequency you want to switch.



How to call a station in the message list?

On the "Decode" and "Call" interfaces, long press on the message list. The message to be called will pop up a menu, select the call sign to call, FT8CN will automatically use this call sign as the call target.

Make a quick call to the party that sent the message, and swipe left to correspond message, FT8CN will automatically call the sender of the message call, if slide within 2.5 seconds from the beginning of this cycle, FT8CN The call will be initiated immediately, more than 2.5 seconds will be in the next call week period to start calling.

Offset Avg : 0.41 Sec Grid : OL50
Decoded : 82 ms UTC : 13:48:42

S.	dB	Δt	Freq	Messages(7/22)	Distance
0	-12	0.4	1497	CQ DX BD4VOJ PM01	14.074Mhz
134730	1.0	Std Msg		JiangSu China	1578 km
0	-15	0.6	1734	XV1X BG5ADN PM00	14.074Mhz
134730	1.0	Std Msg		Vietnam	ZheJiang China 1496 km
1	-5	0.3	1788	E21AZ XV1X RR73	14.074Mhz
134745	1.0	Std Msg		Thailand	Vietnam
1	-8	0.4	1278	B6CRA YB4NY -15	14.074Mhz
134745	1.0	Std Msg		AnHui China	Indonesia 2808 km
1	-9	0.3		Tracking receiver B6CRA(AnHui China)	
1	-7	0.6		Call receiver B6CRA(AnHui China)	
1	-10	0.4		QRZ (B6CRA)	
1	-10	0.2		Tracking YB4NY(Indonesia)	
1	-12	0.4		Call YB4NY(Indonesia)	
0	-7	0.3		QRZ (YB4NY)	
0	-12	0.3			
0	-16	0.3			
1	-8	0.3	1788	JK1PSQ XV1X -15	14.074Mhz
134815	1.0	Std Msg		Japan	Vietnam
1	-6	0.4	1278	B6CRA YB4NY -15	14.074Mhz
134815	1.0	Std Msg		AnHui China	Indonesia 2808 km
1	-9	0.4	1919	EX8ABD YB4KB OI27	14.074Mhz
134815	1.0	Std Msg		Kyrgyzstan	Indonesia 2640 km
1	-10	0.3	0547	UA0CGR B3CRA -13	14.074Mhz
134815	1.0	Std Msg		Asiatic Russia	TianJin China
1	-7	0.6	0872	CQ 9M6BOB OJ85	14.074Mhz
134815	1.0	Std Msg		East Malaysia	1789 km
1	-16	0.5	1034	CQ BH7GOG OL68	14.074Mhz
134815	1.0	Std Msg		HuNan China	912 km
1	-11	0.3	2219	B7CRA YC5NBY 73	14.074Mhz
134815	1.0	Std Msg		HuNan China	Indonesia 2376 km

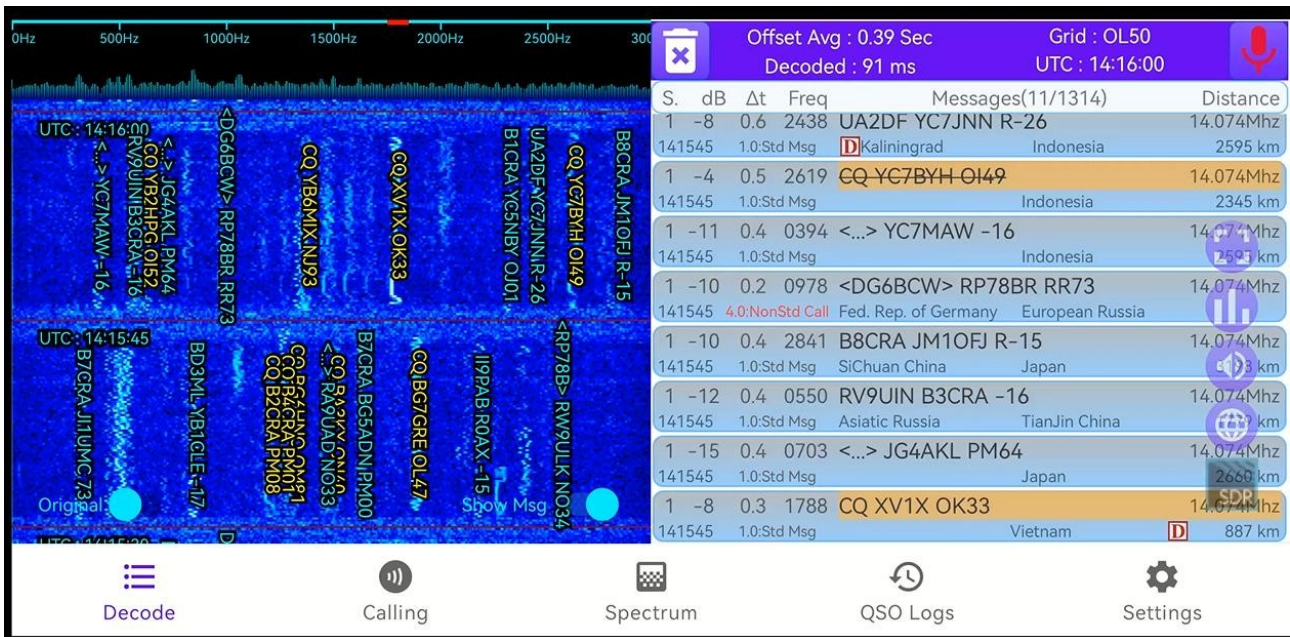
Decode Calling Spectrum QSO Logs Settings

Offset Avg : 0.57 Sec Grid : OL50
Decoded : 85 ms UTC : 13:54:24

S.	dB	Δt	Freq	Messages(7/264)	Distance
1	-4	0.3	1788	BH4BMC XV1X -05	14.074Mhz
135345	1.0	Std Msg		ShangHai China	Vietnam 887 km
1	-10	0.3	1497	CQ DX BD4VOJ PM01	14.074Mhz
135345	1.0	Std Msg		JiangSu China	1578 km
1	-9	0.4	1863	CQ YB2AJ OI52	14.074Mhz
135345	1.0	Std Msg		Indonesia	3114 km
1	-10	0.3	1553	KF6JXM JA2ITO PM84	14.074Mhz
135345	1.0	Std Msg		United States	Japan 2986 km
1	-10	0.6	1734	B1CRA BG5ADN PM00	14.074Mhz
135345	1.0	Std Msg		BeiJing China	ZheJiang China 1496 km
1	-13	0.4	1350	CQ YB7CWE OJ41	14.074Mhz
135345	1.0	Std Msg		Indonesia	2124 km
1	-14	0.4	1938	B1CRA BD0EI NN33	14.074Mhz
135345	1.0	Std Msg		BeiJing China	XinJiang China 3390 km

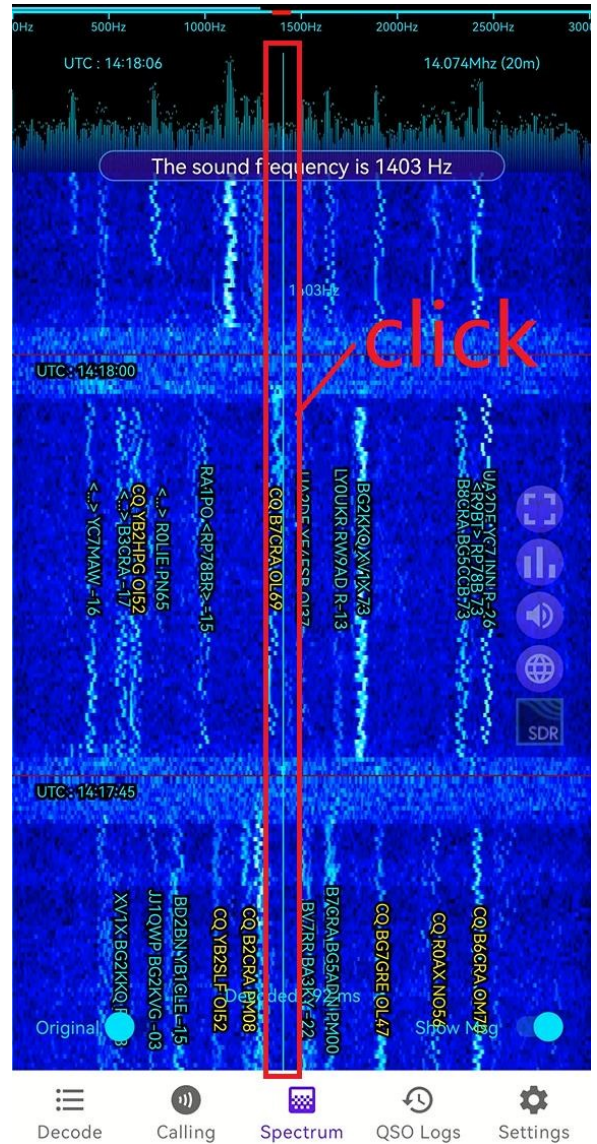
How can I see the waterfall chart while displaying the decoded message?

Switch the mobile phone to landscape mode, and you can see the waterfall on the "decode" interface and "call" interface Layout.



How to quickly set the sound frequency of emission?

In the state of different frequency transmission, you can quickly set the transmission frequency by clicking on different positions of the waterfall diagram sound frequency.



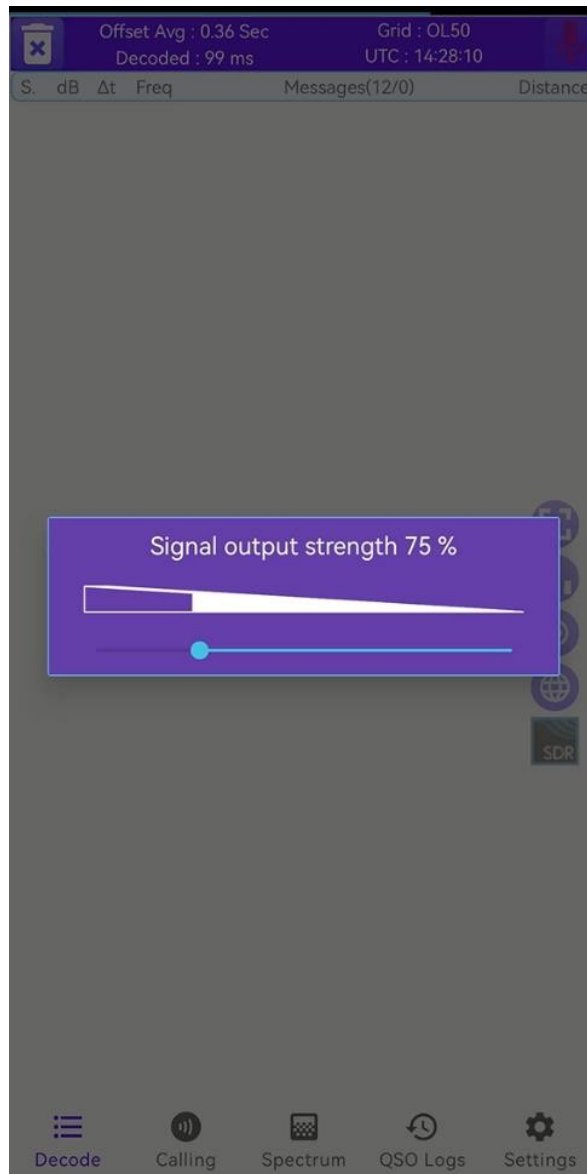
Why both the FT8CN and the radio work normally, but the power 0 or very low?

FT8 communication adopts ssb mode, when the ALC is too low, the transmitting power of the radio will be very low, even 0.

Adjust ALC, you can adjust the ALC value by adjusting the volume of the phone, if Unable to adjust the volume (such as network control mode), you can click the floating button



Come Sets the strength of the sound signal.

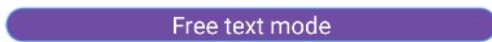
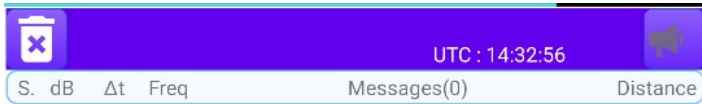


Does FT8CN support free text?

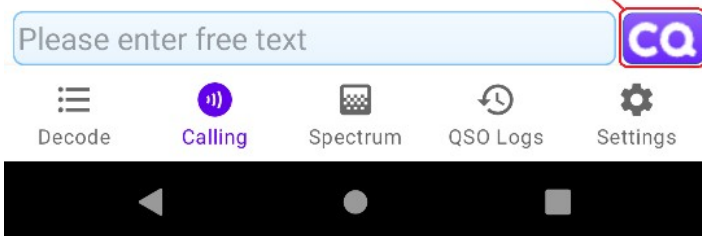
The FT8CN can decode and emit free text. Free text messages for FT8 protocol up to 13 characters mother. On the "Decoding" interface, long press



will be in the "Standard Call" and "Free Text" modes.



Long click



Does FT8CN need time synchronization?

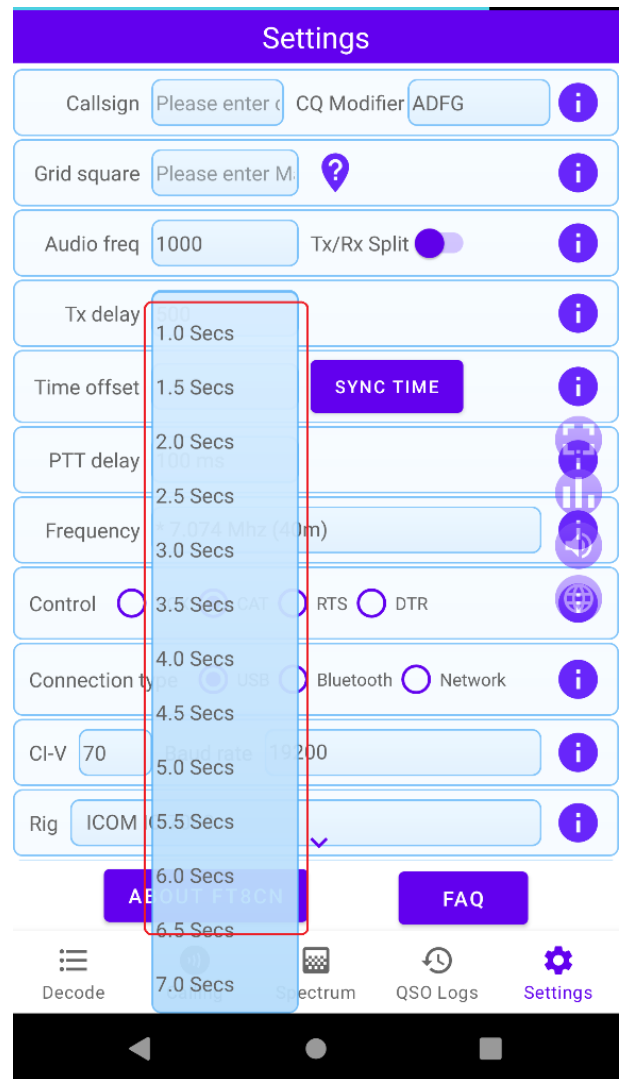
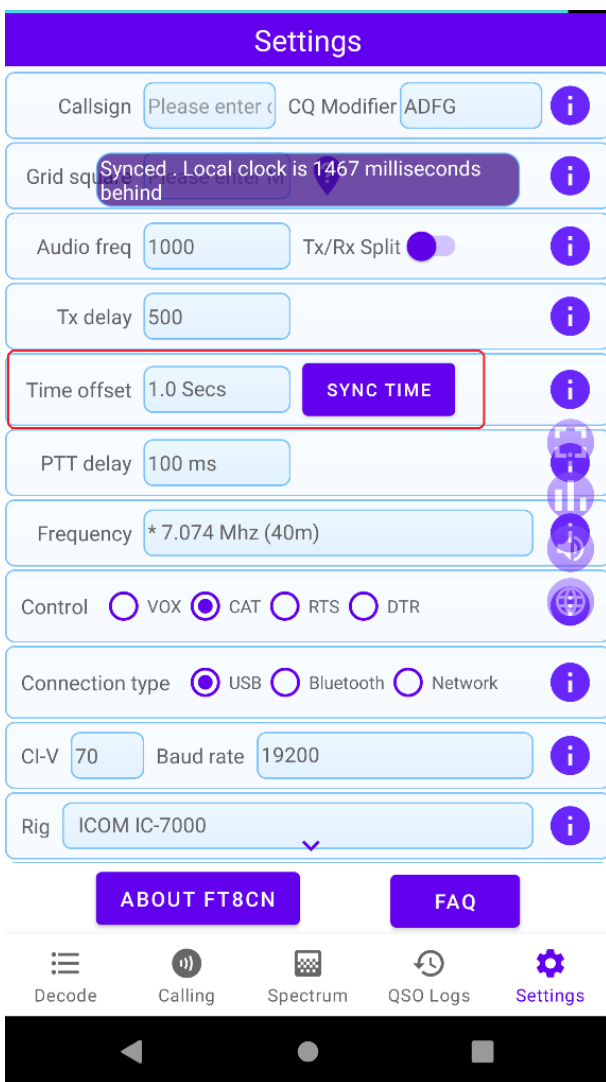
FT8 decoding requires time synchronization, if the time deviation is too large, it will not be able to decode, so The FT8CN also needs time synchronization. If your phone can access the Internet, you don't need to pay too much attention to the problem of time synchronization, FT8CN will automatically pass through the network when starting Road synchronization time (the time of the mobile phone is not modified, but the offset value of the time is calculated).

You can also manually synchronize the time if you have internet access. In "Settings" interface, click

SYNC TIME

button.

If internet access is not available, you can select an appropriate time in the time offset list offset to correct the time.



The extended and detailed manual in Chinese:

<https://github.com/N0BOY/FT8CN/blob/cb1d1284c1ef962fa20f66c486aea4594054c34b/FT8CN%E8%BD%AF%E4%BB%B6%E8%AE%BE%E8%AE%A1%E5%88%9D%E8%A1%B7%E5%8F%8A%E4%BD%BF%E7%94%A8%E8%AF%B4%E6%98%8E0.88%E7%89%88.pdf>