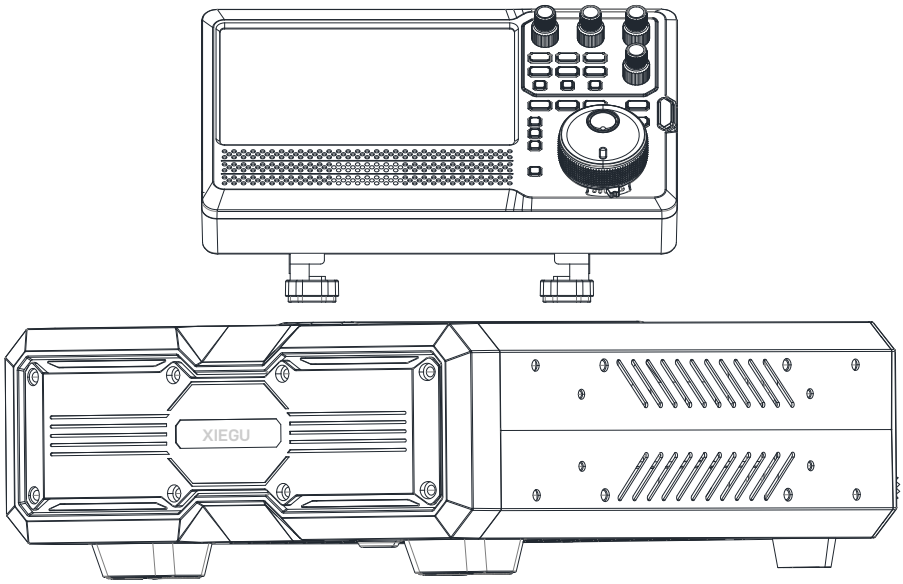
XIEGU

G7250

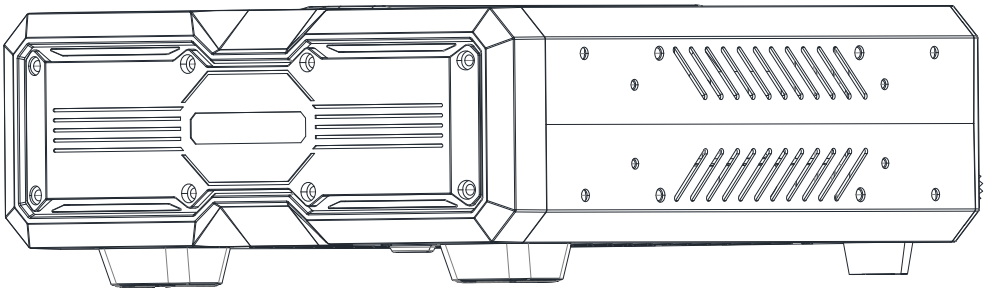
HF/50MHz Shortwave Transceiver



Operation Manual

Rev.1.01

Dongguan Weisheng Communication Technology Co., Ltd.



The G7250 uses an excellent RF direct sampling architecture and is equipped with powerful baseband and RF units, bringing a more convenient operating experience to amateur radio operators. The strong RF output power makes contacts easy.

The split design allows the head unit (display and controller) and the main unit to be deployed independently, adapting to multiple deployment scenarios.

- RF direct sampling architecture, excellent performance
- Frequency coverage: HF/50MHz amateur bands
- Adjustable digital filters
- Built-in digital noise reduction and digital notch
- Voice recording call
- Preset CW message call
- Spectrum / waterfall display
- Built-in antenna tuner
- Network transmission of baseband signals
- Split design of controller (head) and main unit, adapting to more application scenarios

To help you quickly master the operation of the G7250, we recommend reading this manual thoroughly before use.

Special Notices:

- Amateur radio equipment may only be used for setting up amateur radio stations and must not be used for setting up radio stations for other radio services.
- Amateur radio equipment can only transmit within amateur service frequency bands.

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Safety Precautions

- Do not use non-original connecting cables to connect the controller and the main unit. This may damage the equipment.
- Do not use this equipment during thunderstorms. Be sure to disconnect the power and antenna in advance.
- Do not touch the antenna while this equipment is transmitting.
- Never apply AC power to the DC connector on the rear panel of the main unit. This will damage the equipment or cause a fire.
- Never apply a voltage exceeding the rated value to the DC connector on the rear panel of the main unit. This may damage the equipment or cause a fire.
- Never reverse the polarity of the power cable. This may damage the equipment or cause a fire.
- Never operate or touch the equipment with wet hands. This may cause electric shock or damage the equipment.
- If you find smoke or an unusual smell coming from the equipment, immediately turn off the power, unplug the power cable, and contact the supplier for disposal.
- Do not use this equipment in areas, vehicles, or aircraft where its use is prohibited.
- Do not use this equipment while driving or operating engineering equipment.
- Do not use this equipment at gas stations, refueling stations, or where flammable gases are present.
- Do not use this equipment in hospitals or in environments where people are wearing medical devices.
- Do not expose this equipment to rain, snow, or any liquid. This may damage the equipment.
- Do not set the volume too high to avoid hearing damage.
- Do not disassemble or modify this equipment.
- Do not place this equipment near heat sources or in direct sunlight inside a car or elsewhere.
- Do not place this equipment in dusty or humid places.
- Do not install this equipment in poorly ventilated places, and do not block any heat sinks on the equipment. Otherwise, the equipment may overheat and be damaged.
- Do not wipe this equipment with organic solvents such as benzene or alcohol. This may damage the surface of the equipment.
- Do not apply impact force to this equipment, especially impact on the front controller panel. This may cause equipment damage.
- Do not store or use this equipment outside the temperature range of -10°C to +50°C.
- If the equipment is not used for a long time, turn off the power, unplug the external power cable, and disconnect the antenna.

Operating License Requirement

- Before making calls on amateur radio bands, ensure that you hold a valid operator certificate or operating license issued by your local government authority.

Important Notes

- ✧ Before actual transmission, ensure that your antenna and feedline system meets the transmit operating specifications.
- ✧ Continuous long-time transmission may cause the equipment to become severely hot. It is recommended to reduce the transmit power, appropriately extend the transmission interval, and enhance external ventilation and heat dissipation.
- ✧ Place the radio in a safe place to avoid touching or use by children or unauthorized persons.

Electromagnetic Interference

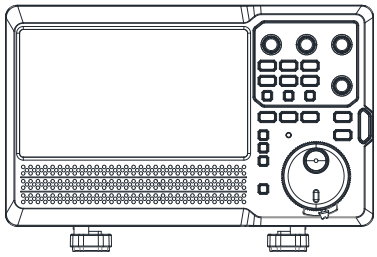
When using Bluetooth devices, please note: When other wireless devices such as wireless mice, wireless keyboards, and wireless routers operate on the same frequency band, mutual interference may occur, causing unstable connection or interruption of this equipment. In this case, move away from other devices or stop using them.

RF Interference

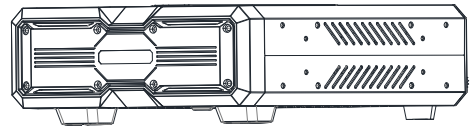
When using monopole antennas (end-fed antennas, long-wire antennas, etc.), be sure to take effective grounding measures for the antenna and the radio, and increase the distance between the radio and the antenna; at the same time, install suitable EMC ferrite cores on the feedline near the radio end and on various connecting cables (data cables, extension cables, audio cables, etc.) near the radio end to reduce RF signal interference to the radio.

Device Composition

The G7250 consists of a main unit and a controller unit, connected via a dedicated connecting cable.

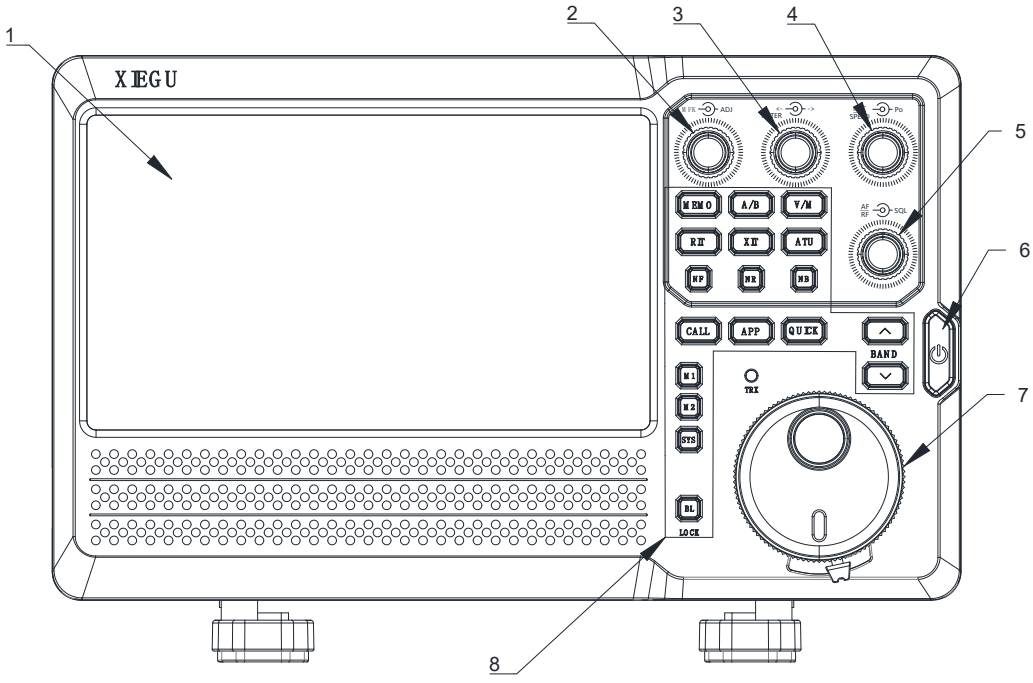


Left: Controller Unit (Head)



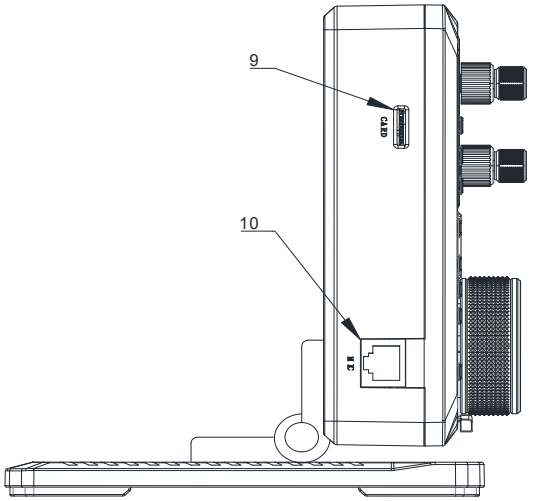
Right: G7250 Main Unit

Controller Panel Description

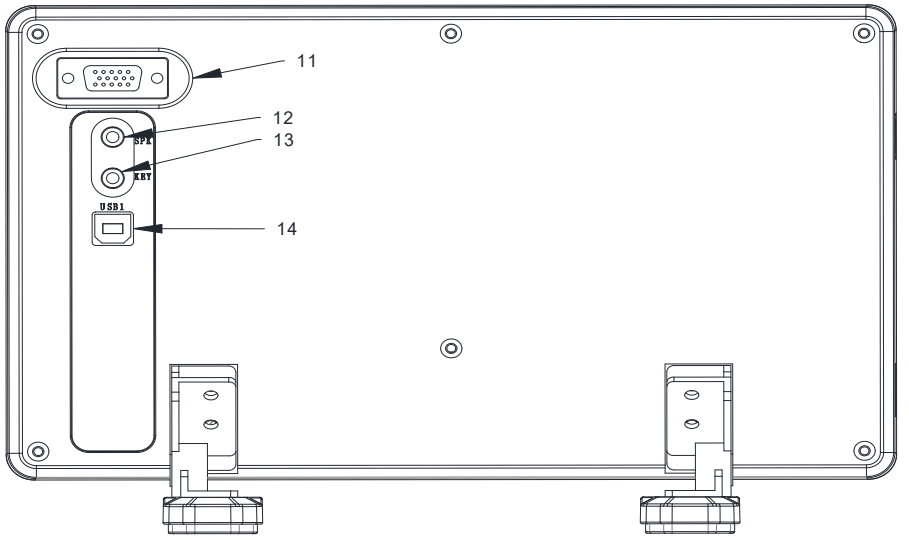


No.	Name		No.	Name
1	Capacitive Touchscreen		5	AF RF/SQL Knob
2	MFK/ADJ Knob		6	Power Switch
3	FILTER Knob		7	Optical Main Tuning Dial
4	MIC SPED/Po Knob		8	Keypad Area

Controller Left Side Description



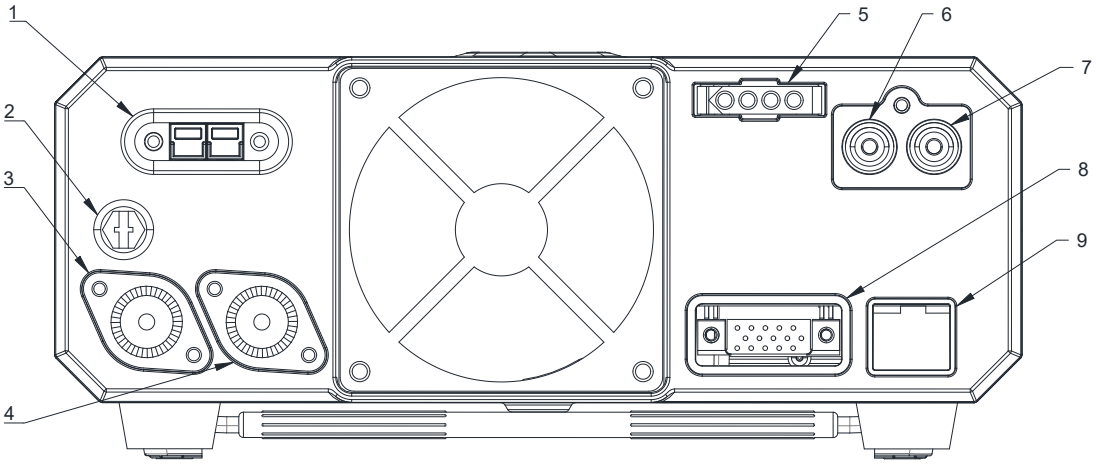
Controller Rear Panel



No.	Name		No.	Name
9	TF Card Slot		12	SSPK External Speaker Interface
10	Microphone Interface		13	KEY Morse Key Interface
11	CTRL Interface (to Main Unit)		14	USB Interface

- **Note!** Before inserting a TF memory card, it is recommended to format it as FAT32 on a computer.

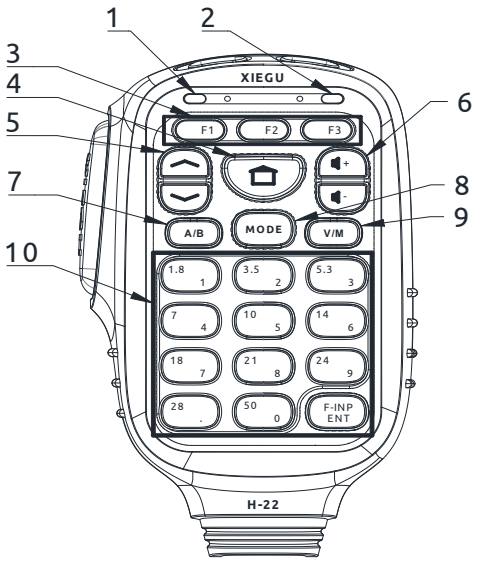
Main Unit Rear Panel



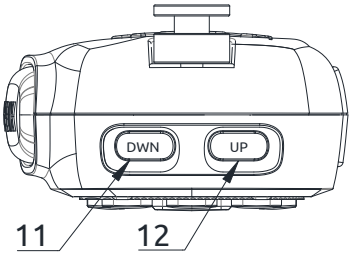
No.	Name		No.	Name
1	External DC Power Socket		6	ALC Interface
2	Grounding Nut		7	SEND Interface
3	ANT1 Antenna Interface		8	CTRL Interface (to Controller)
4	ANT2 Antenna Interface		9	LAN Wired Network Port
5	External Tuner TUNER Interface		/	/

- ANT1/ANT2: Can be used to connect two shortwave antennas of different bands or types.
- CTRL Interface: Dedicated interface for connecting the main unit and controller.
- LAN Port: Wired network interface.
- For wiring definitions of other interfaces, see the "Interface Definitions" section later.

H-22 Microphone



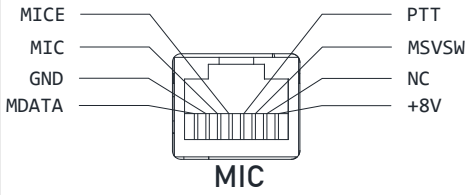
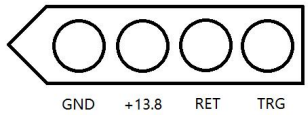
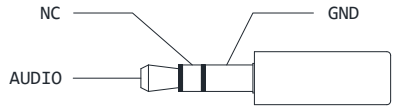
1. Receive Status Indicator	Lights green when receiving.
2. Transmit Status Indicator	Lights red when transmitting.
3. F1-F3 Function Keys	Customizable function keys. Set them in the M1 menu on the controller.
4. HOME Function Key	Short-press to switch to the channel set as HOME.
5. Up/Down Step Keys	Increase or decrease frequency by the current step.
6. Volume Up/Down Keys	Increase or decrease volume.
7. A/B Function Key	Short press to switch VFOA/VFOB; long press to set VFOA/VFOB to the same.
8. MODE Function Key	Switch the current operating mode.
9. V/M Function Key	Switch frequency/channel mode.
10. Numeric Keypad Area	In default state, it is for direct band access; in frequency input state, it is a numeric keypad.



11. DWN Key	In channel mode, short press this key to decrease the channel number.
12. UP Key	In channel mode, short press this key to increase the channel number.

Interface Description

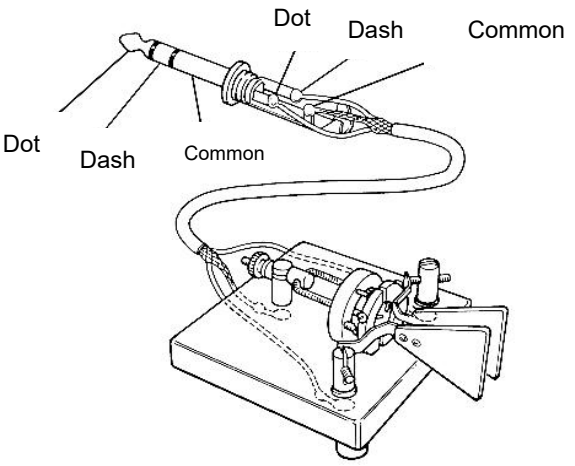
Interface Definitions

Interface Name	Legend	Interface Pinout Definition	
Microphone Interface		MICE	Microphone ground
		MIC	Microphone signal
		MDATA	Microphone data signal
		PTT	PTT signal
		MSVSW	Microphone data signal
		NC	No connection
		+8V	8V DC
		GND	Ground
External Tuner TUNER Interface		GND	Ground
		+13.8	External output 13.8V
		RET	Tuner return signal
		TRG	Tuner trigger signal
SPK Interface		AUDIO	Audio output
		NC	No connection
		GND	Ground
SEND Interface	RCA socket	Send	Transmit control signal
ALC Interface	RCA socket	ALC	Output ALC signal

KEY Port Wiring Method

Manual Morse Key Wiring Method:
Connect the contacts of the manual Morse key to any of the first two terminals of the 3.5mm plug, that is, to either the "Dot" or "Dash" terminal.

Automatic Morse Key Wiring Method:
Refer to the diagram on the right for the automatic Morse key wiring method. Connect the two movable contacts to the first two terminals of the 3.5mm plug respectively. There is no order requirement (left or right hand can be set in the menu).



Special Attention!

- If the manual Morse key has a 6.5mm 2-core plug, modify it to a 3-core 3.5mm stereo plug according to the manual Morse key wiring method, and connect the manual Morse key trigger terminal to either the "Dot" or "Dash" terminal.
- Directly using a 6.5mm to 3.5mm 2-core to 3-core adapter or incorrect wiring may cause the radio to remain in CW transmit mode.

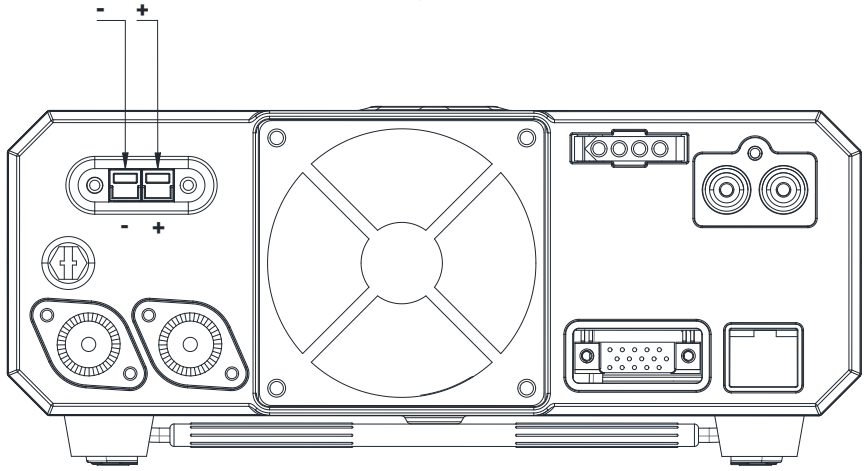
Note!

- Using plugs of other specifications may damage the controller jack.
- When the power is on, inserting or removing the Morse key plug may cause the radio to temporarily switch to transmit status!

Power Connection

The G7250 uses an external DC power supply of 13.8V (±15%). The DC power supply must have a current load capacity of at least 25A. The supplied power cable can be used to connect the radio to the DC power supply.

When connecting the DC power supply, carefully follow the markings in the diagram below to avoid reverse polarity connection.



The DC power interface at the rear of the main unit: the red terminal is positive, and the black terminal is negative. Connect the supplied power cable to the main unit power interface according to the plug colors: red wire to positive, black wire to negative.

◆ When using an external power supply, to improve immunity, an EMC ferrite core can be installed on the power cable near the radio side.

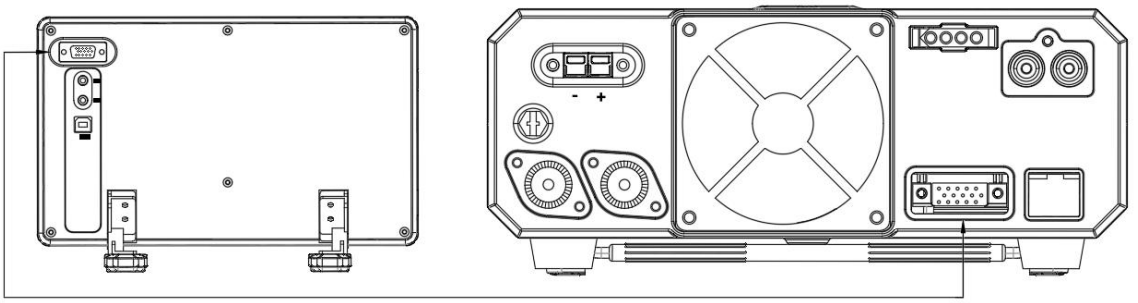
Caution!

- When using an external power supply, carefully check the polarity of the power cable. Do not reverse the polarity.
- Reverse power connection may cause serious damage to the radio.
- Do not use an external power supply with insufficient output power, otherwise it may cause abnormal operation, failure to boot, or shutdown during transmission.
- **Do not connect an external power supply with an output voltage outside the rated operating voltage range of the radio,** otherwise it may cause serious damage to the radio.

Device Connections

1. Connecting the Controller to the Main Unit

Use the dedicated connecting cable to connect to the CTRL interfaces of the controller and the main unit respectively.

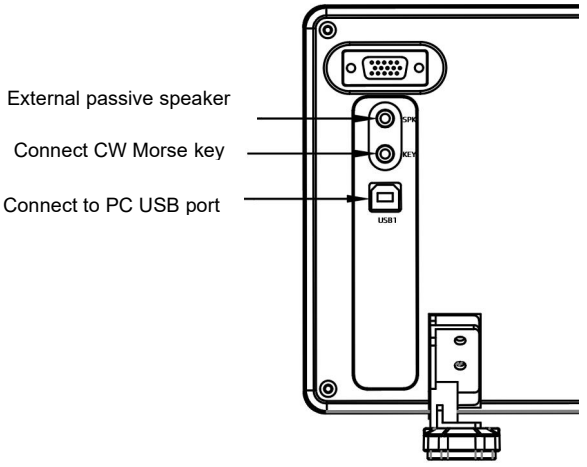


Dedicated connecting cable

Caution!

- Never use non-original connecting cables to connect the equipment, otherwise there is a risk of damaging the equipment.

2. Head Unit Interface Connection



2.1 The SPK port is used for an external passive speaker with an impedance of 4~8Ω. It can directly connect to the GY10 speaker (optional) or GY-03 speaker (optional).

2.2 The KEY port can be used to connect a Morse key. Both manual and automatic Morse keys connect to this port. See the previous definitions for wiring.

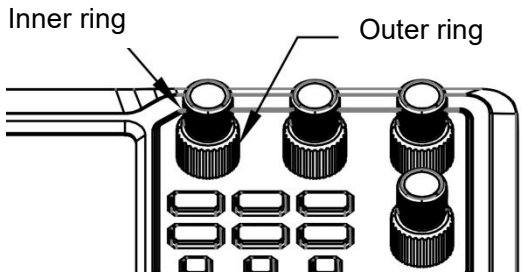
2.3 The USB port is used to connect to a PC for control and audio transmission.

Caution!

- The SPK port cannot be connected to wired earphones, otherwise the earphone device may be damaged.

Functions of the 4 Concentric Knobs

There are 4 concentric knobs on the G7250 controller panel. These knobs each have an inner ring and an outer ring adjustment cap, as shown in the diagram on the right.

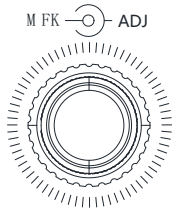


The inner ring cap of these knobs can be pressed. In some functions, you need to press to select the corresponding function.

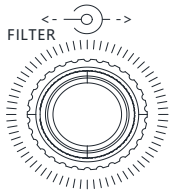
Each 2 steps of rotation of the inner and outer rings executes one operation.

MFK Knob Operation

The inner and outer rings of the MFK knob have different control functions on different screens.

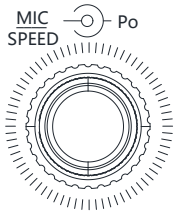


- On the main screen:
  Inner ring function: default is to adjust frequency (by the current step).
  Outer ring function: adjust step.
- On menu pages:
  Inner ring function: adjust the parameter of the currently selected item.
  Outer ring function: select different function items.



FILTER Knob Operation

- On the main screen:
  Inner ring function: adjust filter sideband 1.
  Outer ring function: adjust filter sideband 2.

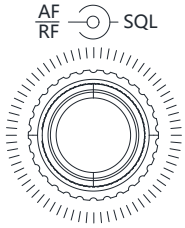


MICSPEED/Po Knob Operation

- On the main screen:

Inner ring function: adjust MIC gain. Short press the inner ring to switch to adjusting CW automatic keyer speed.

Outer ring function: adjust transmit power.



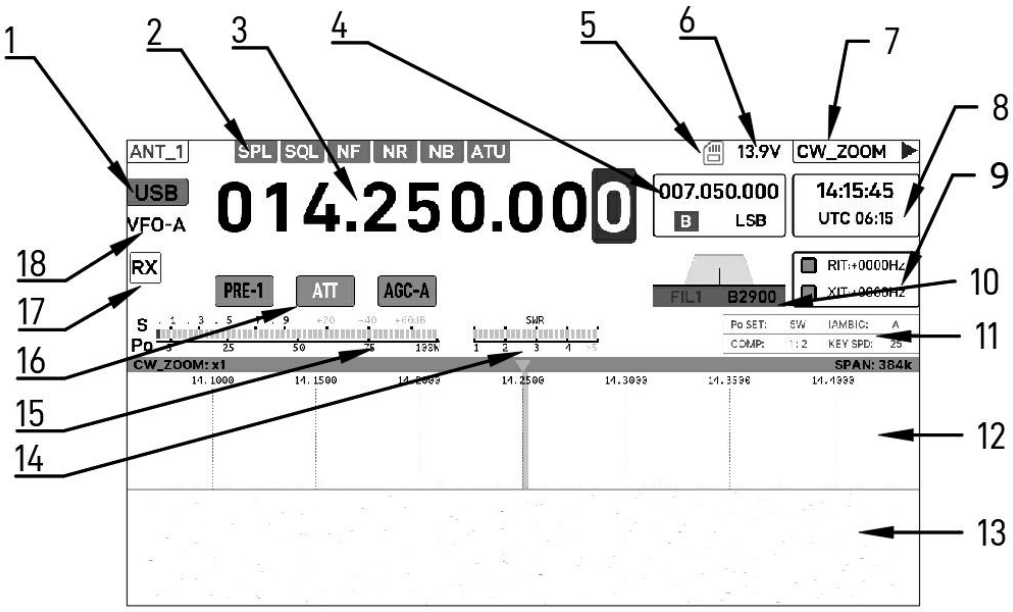
AFR/SQL Knob Operation

- On the main screen:

Inner ring function: adjust volume. Short press the inner ring to switch to adjusting RF gain.

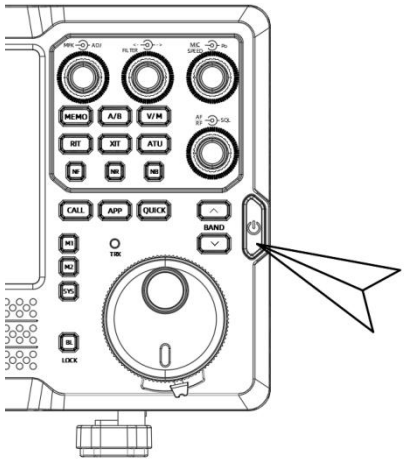
Outer ring function: adjust squelch threshold.

Main Screen Area Functions



1. Operating Mode Display Area
This area displays the current operating mode. Touch this area to set the operating mode.
2. Status Display Area 1
This area displays the on/off status of ANT1, SPL, ATU, SQL, NF, NB, NR.
3. Main Frequency Display Area
This area displays the current VFO frequency. Touch the MHz digit to select different bands. Touch the kHz digit to set the current step.
4. VFOB Display Area
This area displays VFOB information. Touch this area to switch VFOA/VFOB.
5. Memory Card Icon
This icon is displayed when a memory card is inserted into the controller.
6. Input Voltage Display
This value is the voltage input to the radio power port.
7. MFK Knob Current Function Label
This area displays the operation function currently set for the MFK knob.
8. Time Display Area
This area displays local time and UTC time.
9. RIT/XIT Parameter Display Area.
10. Filter Status Display Area
This area displays the currently set filter parameters.
11. Common Parameter Setting Value Display Area.
12. Spectrum Display Area.
13. Waterfall Display Area.
14. SWR (Transmit Standing Wave Meter) Display Area.
15. S-Meter (Signal Strength) and Po-Meter (Transmit Power) Display Area.
16. Status Display Area 2
This area displays PRE, ATT, AGC and other statuses.
17. Current Transmit/Receive Status Indicator.
18. Current VFO Display.

Functional Operations



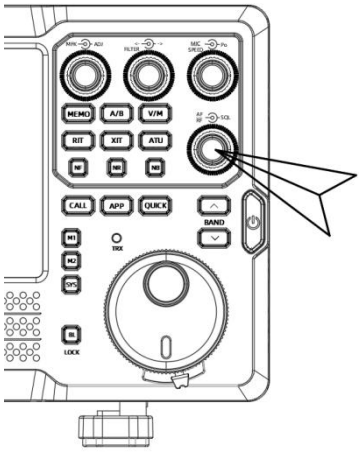
Turning the Radio ON/OFF

Operation method:

Power On: Short press the power switch. The red backlight of the key lights up. Release the power key and wait for the system to complete startup.

Power Off: Long press the power switch for about 2 seconds. The interface displays shutdown information, then release the power key.

Adjusting AF/SQL/RF GAIN



Operation method:

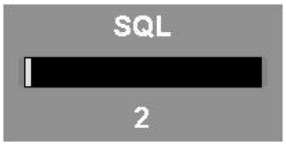
Outer ring: Rotate the knob left or right to adjust the squelch threshold.

Inner ring:

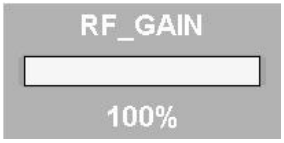
1. Rotate the knob left or right to adjust the output volume.
2. Short press the inner ring knob to switch between volume/RF gain adjustment.
3. When adjusting each parameter, a small window on the right side of the interface will display the current adjustment value, as shown in the diagram below:



Volume Adjustment



Squelch Adjustment



RF Gain Adjustment

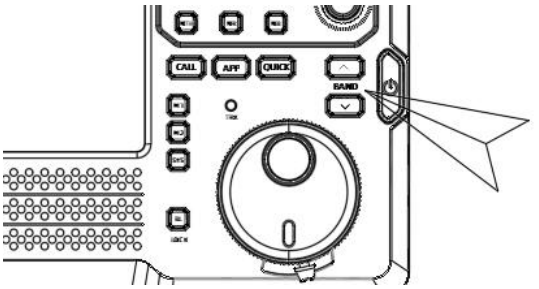
4. About 3 seconds after adjustment is completed, the adjustment window will automatically close.

Note!

When adjusting the SQL value, if the speaker is muted by the adjustment, a green "MUTE" character will appear on the right side of the "RX" symbol on the left side of the display interface, indicating that it is currently muted. As shown in the diagram on the right:



Operating Band Selection



Operation method:

1. Press the band up/down keys to sequentially switch operating bands:

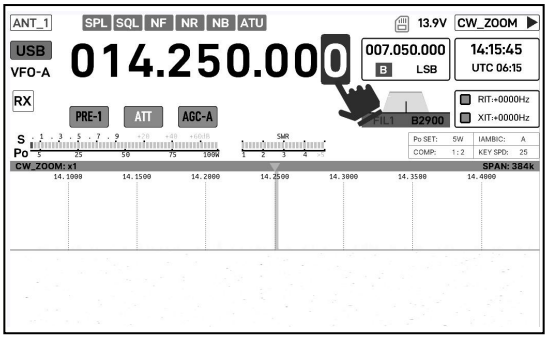
1.8MHz ◄► 3.5MHz◄►7MHz◄►10MHz ◄► 14MHz◄►18MHz◄►·····.
21MHz ◄► 24MHz ◄► 28MHz ◄► 50MHz◄►88MHz

2. You can also use the numeric keys on the microphone to directly access the corresponding amateur band.

Setting the Operating Frequency

Operation method:

1. Rotate the main tuning dial to adjust the frequency. Turn the dial clockwise to increase the operating frequency; turn it counterclockwise to decrease the operating frequency.
2. Touch the kHz digit and below to change the frequency adjustment digit, enabling large-step fast adjustment. As shown in the diagram on the right.



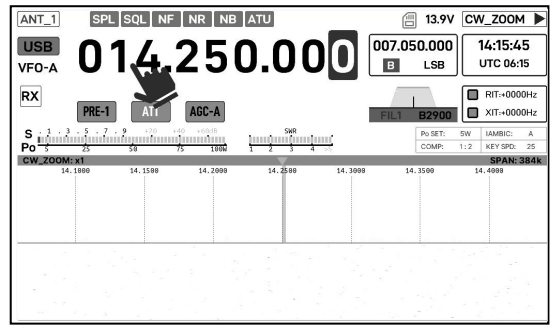
3. Using the multi-function microphone to set frequency:
1) Press the **[F-INP ENT]** key on the microphone. The G7250 enters frequency setting mode, and the cursor flashes at the first digit on the left of the frequency display.
2) Enter the desired frequency value in sequence, then press the **[F-INP ENT]** key again to complete the frequency setting.

Example: To set the current frequency to 14.25000 MHz, press the keys in the following order:
1.First, press the [F-INP ENT] key;
2.Press the 1 4 . 2 5 0 0 0 numeric keys in sequence;
3. Press the [F-INP ENT] key again to complete the setting.

4. Switching bands:

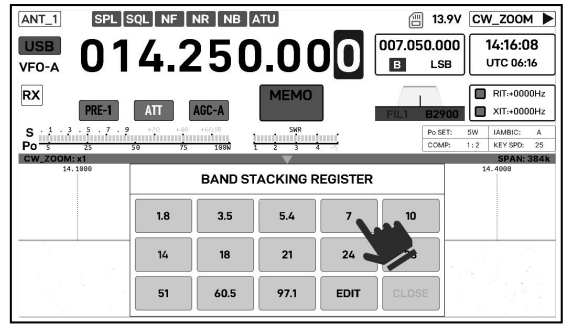
Touch the MHz digit to pop up the band selection window, as shown in the diagram on the right.

Touch the corresponding band button to switch bands.



Tap the corresponding band button to switch frequency bands.

As shown in the figure on the right:



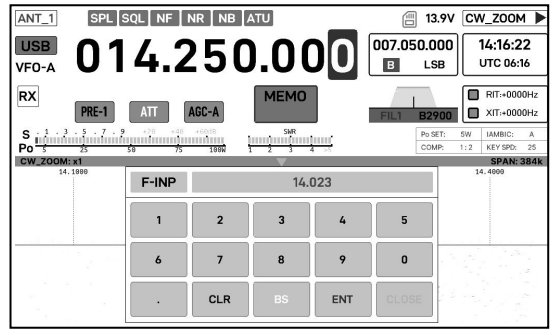
5. Direct frequency input

You can also directly input a frequency value to reach the desired frequency. Operation is as follows:

[1] Follow step 4 above to enter the band selection interface.

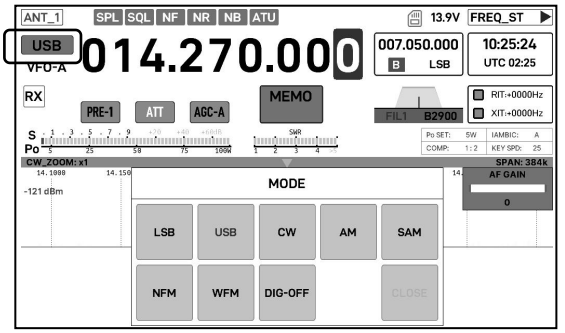
[2] Click the "EDIT" button on the panel to enter the frequency input interface, as shown in the diagram on the right.

[3] Input the desired frequency value, then press "ENT" to complete input.



Mode Selection

Touch the mode display label at the upper left of the interface to enter the mode selection interface, as shown in the diagram on the right.
Touch the desired mode to complete mode selection.

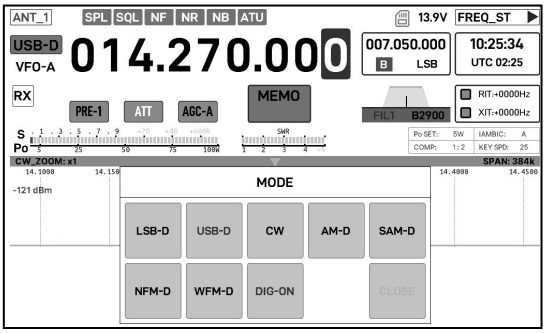


Line Input Mode Selection:

When the radio is connected to a computer for data communication, "DIG-ON" needs to be enabled. At this time, the G7250 disconnects the microphone input and uses the line input audio signal as the modulation signal. As shown in the diagram on the right.

Operation method:

1. Touch the [DIG-OFF] button to set it to [DIG-ON].
2. At this time, all modes have a "-D" character after them, indicating that they have switched to data communication mode. Touch the desired mode to complete the setting.



Note!

- When connecting to a computer for data communication, you must be in DIG-ON status and use the audio input channel of the controller's built-in sound card as the line input.
- In DIG-ON status, microphone voice cannot be used. After data communication is completed, be sure to switch back to DIG-OFF status before using the microphone for regular communication.

SSB/AM/NFM Transmission

Operation method:

1. Press the PTT key on the microphone to start transmitting. Speak into the microphone with a normal voice.
2. During transmission, the TRX transmit indicator on the G7250 turns red, and the indicator on the microphone also turns red.
3. Release the PTT key, and the radio returns to receive status.

CW Transmission

Insert a manual key or external keyer device into the KEY interface on the rear of the G7250 controller.(See page 12 for wiring definitions)

Operation method:

1. Insert the Morse key plug into the KEY interface;
2. Switch the mode to CW (or CWR);
3. Turn on the QSK function in the menu and set an appropriate QSK time;
4. Press the Morse key to perform CW communication.

■ If the "CW TRAINER" option in the KEY menu is set to ON, when the Morse key is pressed, the transceiver only emits a CW sidetone and does not transmit an actual signal externally.

Status Display Area 2 Operations

This area can be touched to operate three commonly used functions: PRE, ATT, AGC. They will be highlighted when turned on, as shown in the diagram on the right.



PRE: Preamplifier. Can switch between PRE1 and PRE2. PRE1 gain is about 12dB, PRE2 gain is about 17dB. Select the appropriate preamplifier gain according to different receiving conditions.

ATT: Pre-attenuator. Can be turned on or off.

AGC: Receive automatic gain control. Can be set to Auto, Slow, Fast, or Off.

Note!

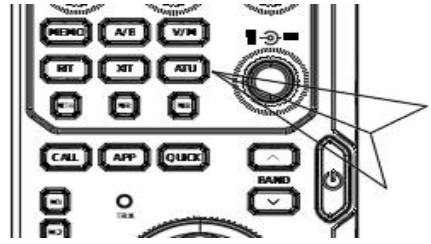
■ When the external electromagnetic environment is poor, turn off PRE and turn on ATT to avoid receiver overload.

■ When the receiver is overloaded, a red "OVF" character will appear on the right side of the "RX" symbol on the left side of the interface. As shown in the diagram on the right.



Automatic Antenna Tuner

The G7250 radio has a built-in high-efficiency automatic antenna tune which can help you quickly complete antenna setup and debugging.



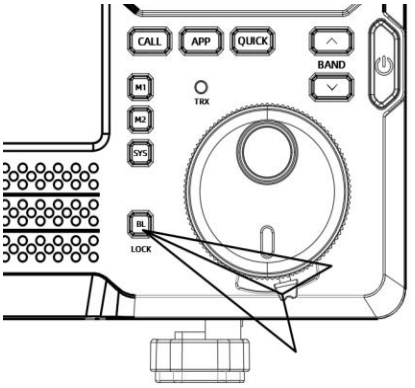
Operation method:

1. Short press the [ATU] key to connect the internal antenna tuner. The ATU icon at the top of the screen highlights.
2. With the tuner connected, long press the [ATU] key for 1 second to start the ATU automatic tuning function. After tuning is complete, it automatically returns to receive status.
3. After successful tuning, the tuner data for the current band is automatically stored.

Caution!

1. Short press the [ATU] key. The ATU icon at the top of the screen lights up, indicating the tuner function is on. It is only on; it has not started tuner tuning.
2. To use the internal tuner, it must remain on after tuning.
3. If, after tuning, transmission is started and the SWR meter still shows a large standing wave, it indicates that the current tuning failed and retuning is required. If the antenna is extremely mismatched and exceeds the tuner tuning range, tuning will also fail.
4. When the antenna is naturally resonant on the current band, be sure to turn off the tuner.
5. When using a whip antenna or monopole antenna with the internal tuner for tuning, strong RF interference may be caused to this unit or other surrounding electronic equipment.

Backlight Adjustment / Lock



`Operation method:`

Backlight adjustment:

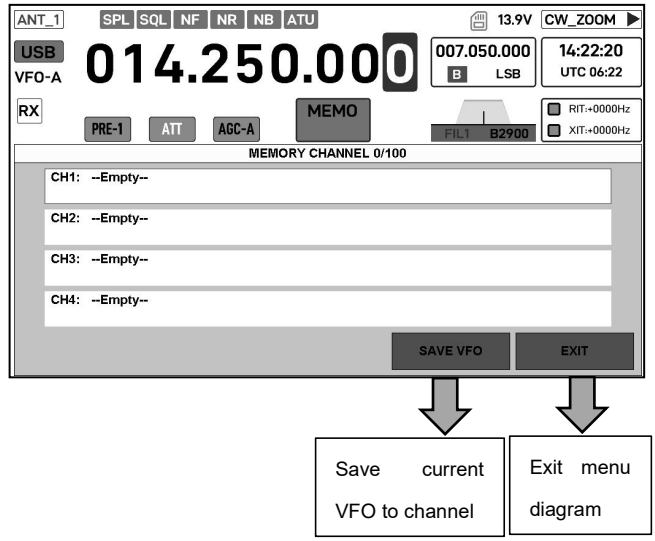
Short press the [BL/LOCK] key to adjust the screen backlight brightness step by step.

Lock main tuning dial:

Long press the [BL/LOCK] key to lock the operation of the main tuning dial on the panel. At the same time, a "Lock" symbol will be displayed at the upper right of the screen.

Channel Storage

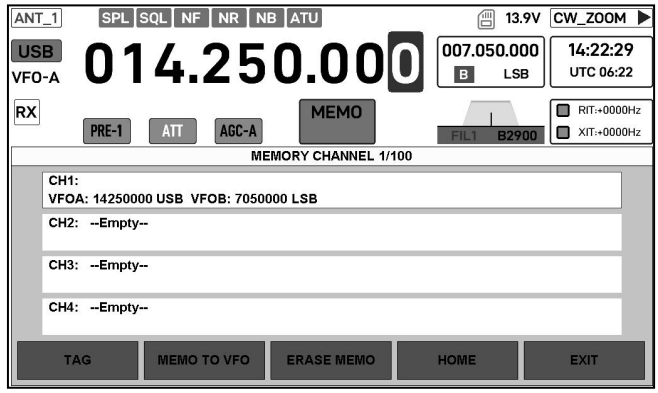
Short press the [MEMORY] key to enter the "Memory Settings" submenu, as shown in the diagram on the right:



Channel storage example:

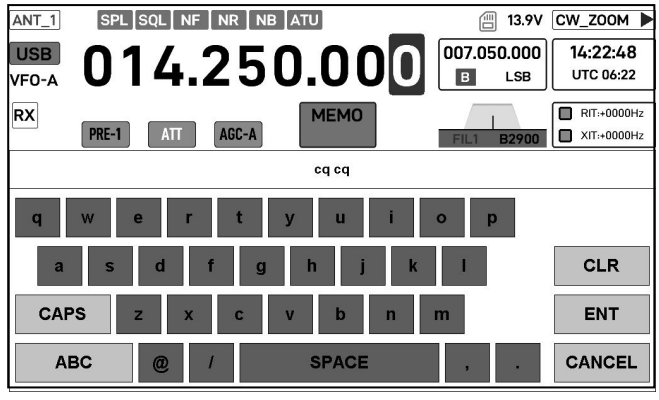
Current frequency is VFOA:14.250000/USB, VFOB:7.050000/LSB

1. Short press the [MEMORY] key to enter the channel storage list. Select an empty channel, then short press the [SAVE VFO] button to store the current frequency, mode, and other statuses into an empty channel. As shown in the diagram on the right:

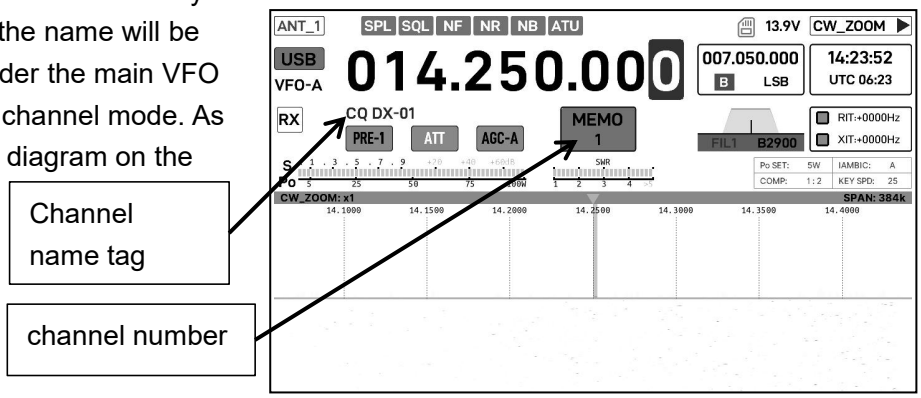


2. Edit channel name.

Short press the [TAG] button to pop up the soft keyboard, where you can edit a name for the current channel. As shown in the diagram on the right, after entering the custom channel name, press the [ENT] button to save.



If the current channel already has a name tag, the name will be displayed under the main VFO frequency in channel mode. As shown in the diagram on the right:



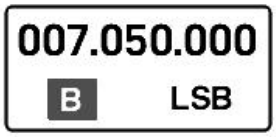
3. In the channel list interface, short press [MEMO TO VFO] to copy the current channel setting parameters to VFO and switch to VFO status.

Channel clear example:

1. Enter the channel list;
2. Rotate the MFK inner ring or touch to select a channel to clear;
3. Touch the [ERASE MEMO] button to clear the stored channel information.

VFO Switching

1. Short press the [A/B] key to switch between VFOA and VFOB.
2. You can also touch the VFOB display area on the screen to switch VFOA/B. As shown in the area on the right:



3. Long press the [A/B] key to copy the VFOB parameters to VFOA.

Frequency Mode / Channel Mode Switching

1. Short press the [V/M] key to switch between frequency mode and channel mode.

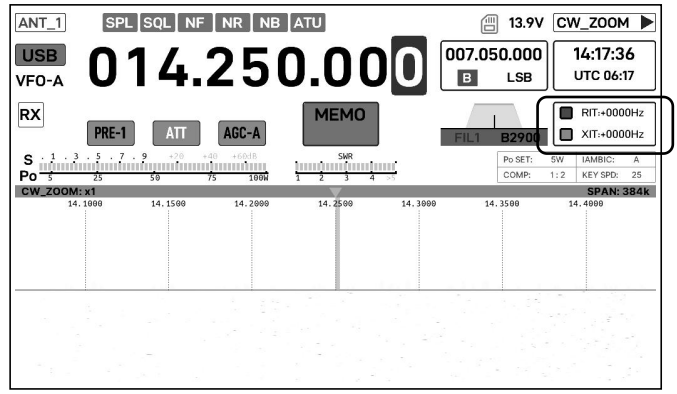
Band / Channel Switching

1. In VFO mode: Short press the [BAND +/-] key to increase/decrease the band.
2. In channel mode: Short press the [BAND +/-] key to increase/decrease the channel.

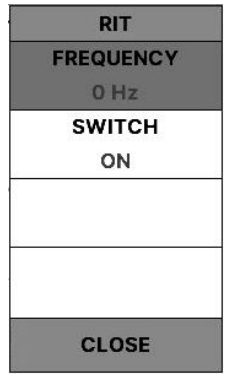
RIT/XIT Fine Tuning

The operation methods for receive frequency fine tuning (RIT) and transmit frequency fine tuning (XIT) are as follows.

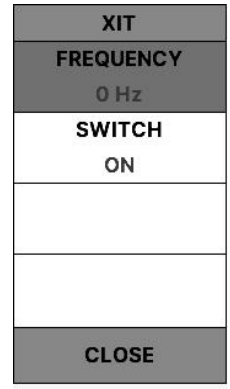
Turn on fine tuning:
1. Short press the [RIT] or [XIT] key to turn on this function.
2. After turning on, the corresponding fine tuning display area on the right side of the screen will highlight the enabled fine tuning function, as shown in the diagram on the right:



Adjust fine tuning parameters:
Long press the [RIT] or [XIT] key. A pop-up menu for RIT or XIT will appear on the right side of the screen. Rotate the MFK inner ring to adjust the RIT/XIT value. As shown in the diagram on the right:



RIT pop-up



XIT pop-up

`Operations on the pop-up:`

1. Touch the "Frequency" button on the pop-up, then rotate the MFK inner ring to change the fine tuning frequency value.
2. Touch the "SWITCH" button on the pop-up to turn the corresponding fine tuning function on or off.
3. Touch the "CLOSE" button on the pop-up to close it.

Note:

- After using the fine tuning function, please turn it off immediately; otherwise, the frequency fine tuning will remain in effect.

NF/NR/NB Operations

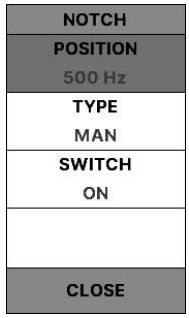
NF: Digital Notch Filter
NR: Digital Noise Reducer
NB: Pulse Noise Blanker

`Turn on function:`

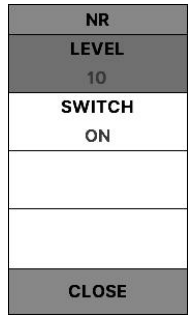
Short press the [NF], [NR], [NB] keys to turn on the corresponding digital processing function. At the same time, the corresponding function label in the top status bar of the display will highlight.

`Adjust parameters:`

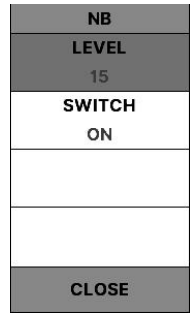
Long press the [NF], [NR], or [NB] key. A corresponding pop-up menu will appear on the right side of the screen. Touch a parameter button, then rotate the MFK inner ring to adjust the parameter value. As shown in the diagram on the right:



NF pop-up



NR pop-up



NB pop-up

NF pop-up button functions:

Button	Function
POSITION	Notch position. Touch to select, then rotate the MFK inner ring to adjust the value.
TYPE	Type. Touch to select "AUTO" or "MAN".
SWITCH	Turn this function on or off. Touch to select "ON" or "OFF".
CLOSE	Touch this button to close this pop-up.

NR pop-up button functions:

Button	Function
LEVEL	Noise reduction level. Touch to select, then rotate the MFK inner ring to adjust the value.
SWITCH	Turn this function on or off. Touch to select "ON" or "OFF".
CLOSE	Touch this button to close this pop-up.

NB pop-up button functions:

Button	Function
LEVEL	Pulse noise suppression level. Touch to select, then rotate the MFK inner ring to adjust the value.
SWITCH	Turn this function on or off. Touch to select "ON" or "OFF".
CLOSE	Touch this button to close this pop-up.

Auto Call

The G7250 has a built-in auto call function, which can be used in voice modes (SSB, AM, NFM) and CW mode.

- When voice mode is selected, the auto call interface uses preset recordings.
- When CW mode is selected, the auto call interface uses preset messages.

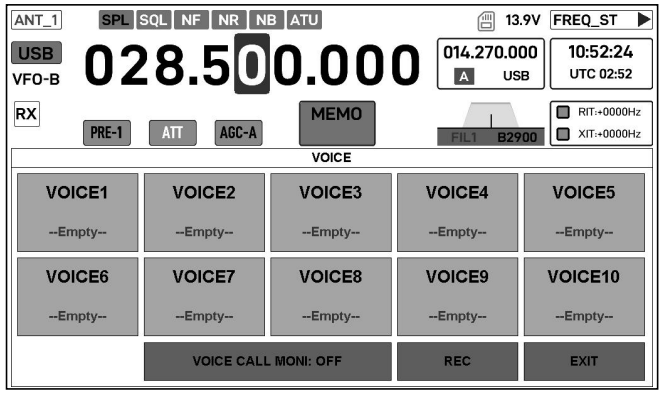
Note! To use the auto voice call function, be sure to insert a TF memory card (capacity ≤32G, FAT32 format). Otherwise, recording and calling cannot be performed. After inserting the TF card, the card icon will be displayed at the top of the main screen.

Voice Mode Recording and Calling Operation:

1. Short press the [CALL] key to enter the voice caller interface. When entering for the first time, since no recording has been made, all label buttons are empty, as shown in the diagram on the right.

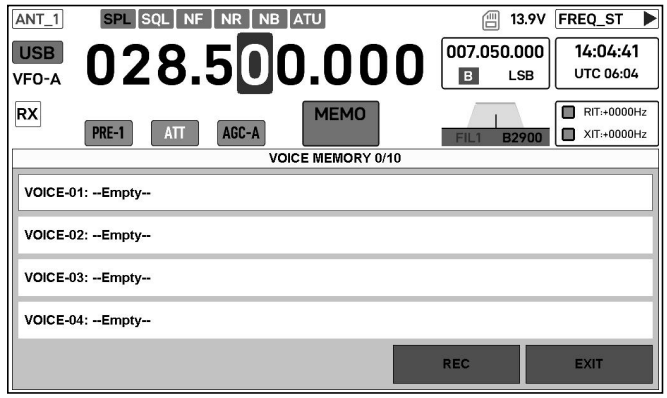
The call page has a total of 10 call buttons. When there is no recording, "Empty" will be displayed under the button.

Touch the [REC] button at the bottom of the window to enter the recording list.



Voice call interface diagram

2. Enter the recording list interface. As shown in the diagram on the right, the current recording list is all empty, indicating no recording files. Touch or rotate the MFK inner ring to select an empty record, then touch the [REC] button at the bottom of the interface to enter the recorder interface.



Preset message call interface diagram

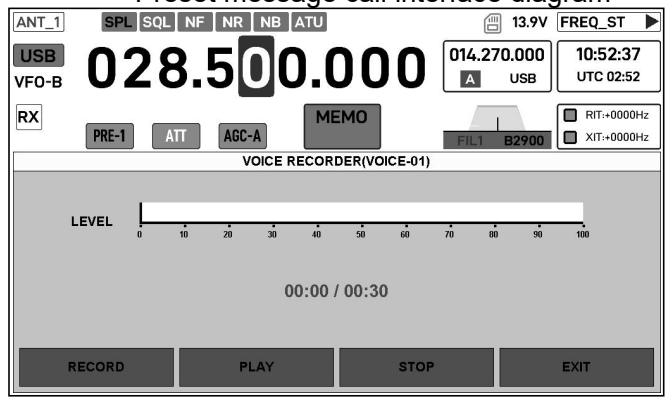
3. Enter the recorder interface. As shown in the diagram on the right, a single recording can be up to 30 seconds long. Recording files are stored in the TF card. The button functions at the bottom of the interface are as follows:

RECORD: Start recording

PLAY: Play the recorded audio.

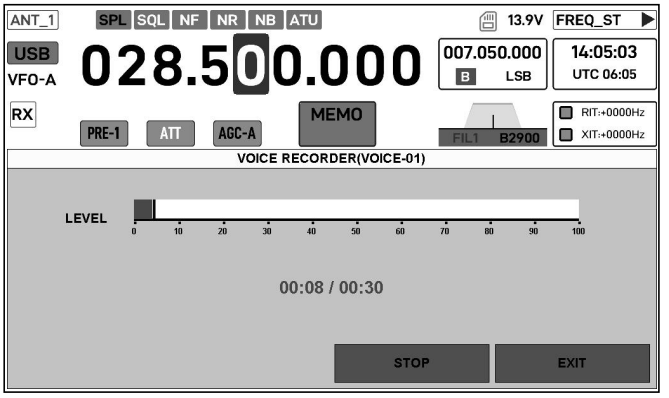
STOP: Stop playback.

EXIT: Exit this interface.

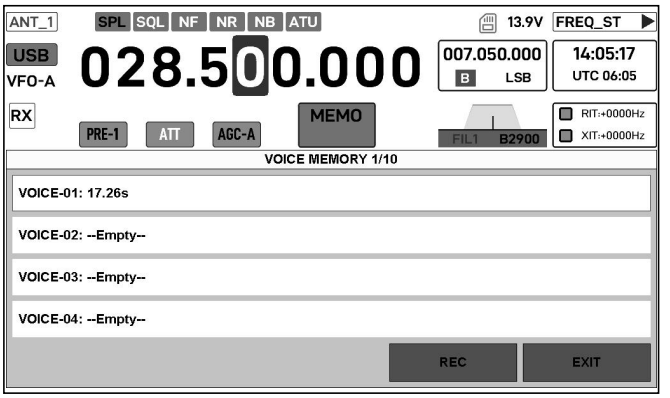


4. Insert the microphone and click the [RECORD] button to start recording. Face the microphone toward your mouth and adjust your speaking volume so that the level meter value on the interface stays at 20 or above until you finish speaking all content. The interface is as shown in the diagram on the right.

After speaking all content, click the [RECORD] button below to stop recording.

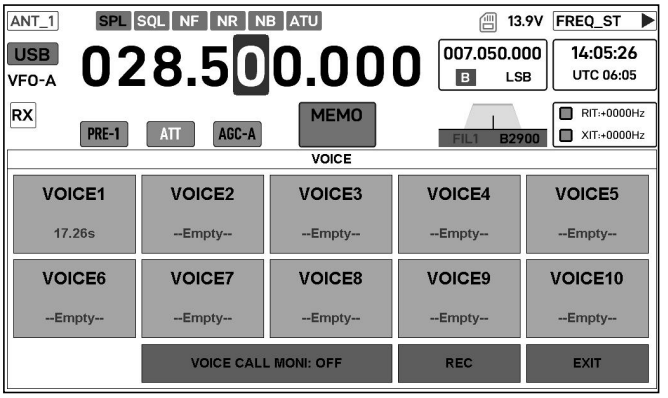


5. Click the [EXIT] button to return to the recording list. The recording information just recorded is now displayed in the list, as shown in the diagram on the right:



6. Click the [EXIT] button to return to the caller interface. The caller button now displays recording information, as shown in the diagram on the right. VOICE1 has stored the voice just recorded. Clicking it will immediately transmit a voice call.

7. The [VOICE CALL MONI] key at the bottom of the interface is the monitor switch. When turned on, you can monitor your own call voice during transmission.



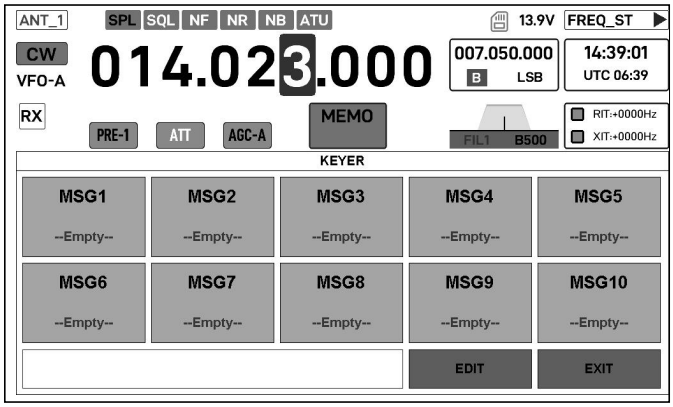
■ **Note:** The status of the [VOICE CALL MONI] monitor switch here is not controlled by the "MONITOR LEVEL" option in the M1 menu.

Auto CW Call

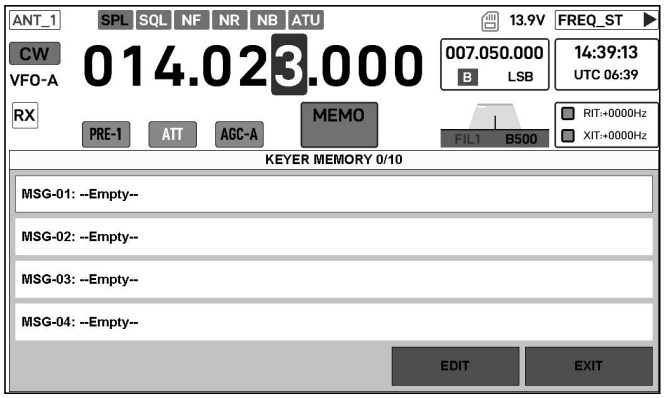
1. Short press the [CALL] key to enter the CW caller interface. When entering for the first time, since there are no preset messages, all label buttons are empty, as shown in the diagram on the right.

The call page has a total of 10 call buttons. When there is no preset message, "Empty" will be displayed under the button.

Touch the [EDIT] button at the bottom of the window to enter the preset message list interface.



2. Enter the message list interface. As shown in the diagram on the right, the current message list is all empty, indicating no preset messages. Touch or rotate the MFK inner ring to select an empty record, then touch the [EDIT] button at the bottom of the interface to enter the message editing interface.



3. Enter the message editing interface. As shown in the diagram on the right, a single message can contain a maximum of 60 English characters. The keyboard button functions are as follows:

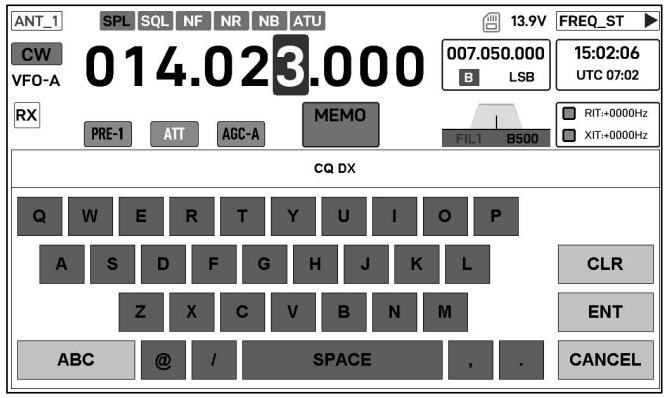
CLR: Delete the last character.

ENT: Save the entered characters.

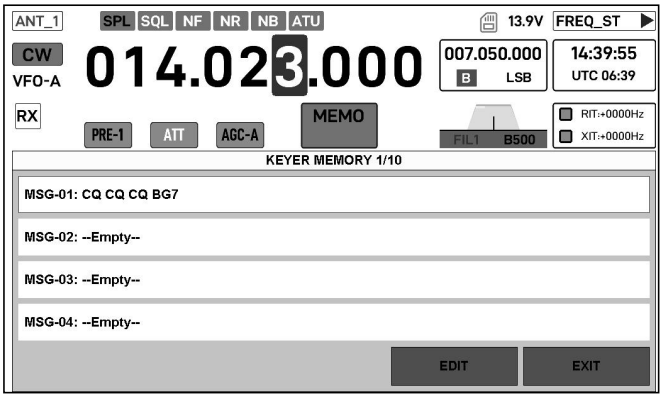
CANCEL: Exit the editing interface.

SPACE: Space key.

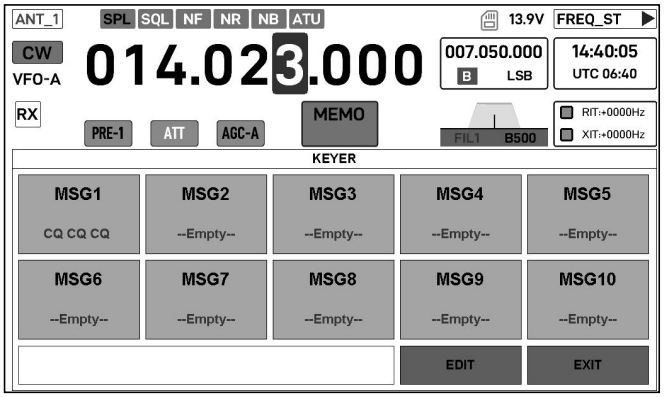
ABC: Switch between letter/numeric keyboard.



4. Save the entered message and return to the message list. The message information just edited is now displayed in the list, as shown in the diagram on the right.



5. Click the [EXIT] button to return to the caller interface. The caller button now displays message information, as shown in the diagram on the right. MSG1 has stored the message just edited. Clicking it will immediately transmit a CW call.

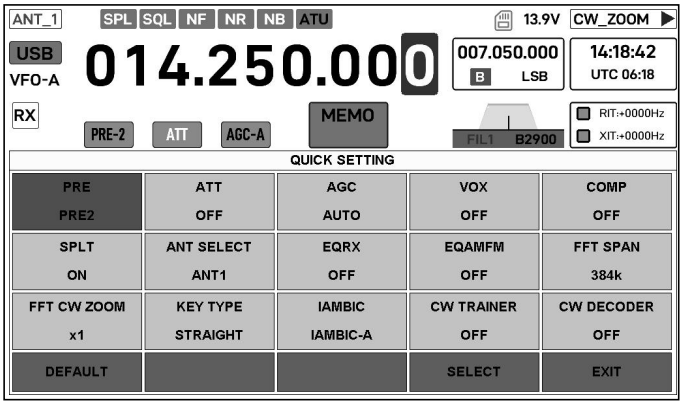


QUICK Shortcut Key

The QUICK key can be set to a commonly used function for easy access.

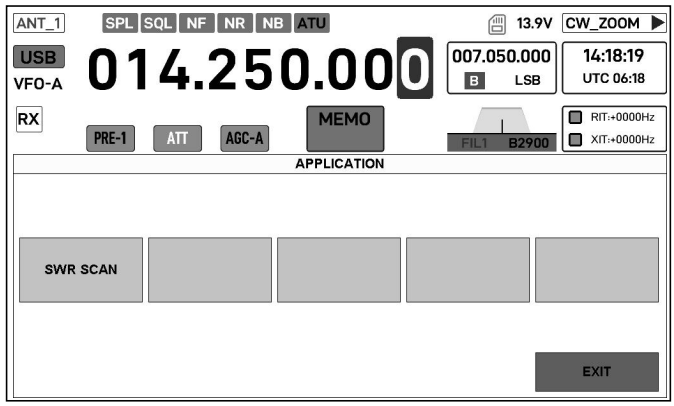
Operation method:

1. Long press the [QUICK] key to enter the shortcut function selection interface, as shown in the diagram on the right.
2. Touch a function, then click the [SELECT] button at the bottom of the interface to set the selected function as the QUICK key function.
3. Touch the [DEFAULT] button to reset the set shortcut function.



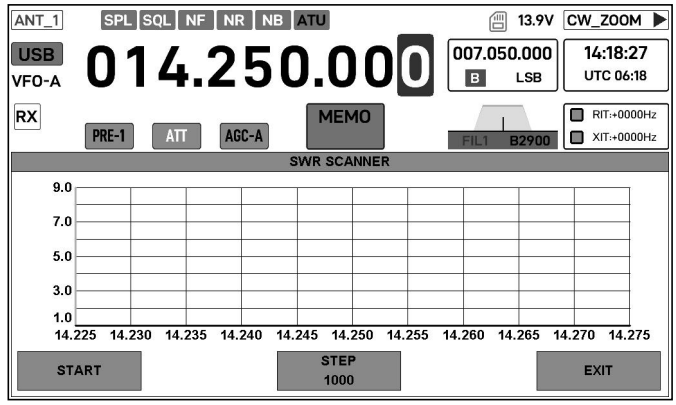
SWR Scan

1. Short press the [APP] key to enter the advanced function application interface, as shown in the diagram on the right. Touch the [SWR SCAN] button to enter the SWR scanner interface.



2. The SWR scanner interface is shown in the diagram on the right.

While the SWR scanner is running, touch the [STOP] button below to stop the current SWR scan.



Button functions below the scanner:

START	STEP	EXIT
Start scanning	scan step	EXIT

START: Short press this key to start scanning. During scanning, [STOP] is displayed here. Short press to stop scanning.
STEP: Short press this key to change the scan step.
EXIT: Exit the SWR scanner interface.

- The SWR scanner scan results may have certain errors and are for temporary reference only. For accurate antenna data measurement, please use professional antenna analysis equipment.

Multi-Function Menu Operations

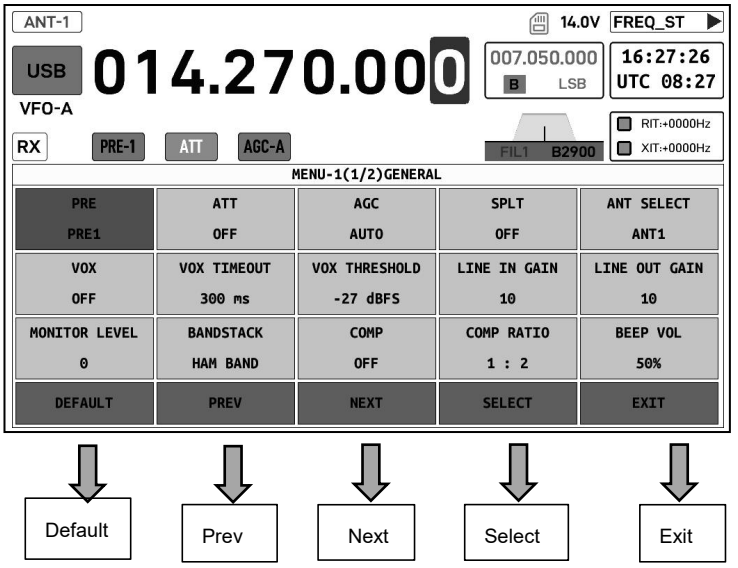
Basic operation method:

1. Press the [M1] or [M2] key to enter the desired menu page.
2. After entering the relevant menu page, touch or rotate the MFK outer ring to select different submenu items, and rotate the MFK inner ring to adjust the currently selected submenu parameter.

- The G7250 can display English and Chinese interfaces. The following operation steps use the English interface for illustration and are explained with Chinese definitions. Users who use Chinese can directly switch to the Chinese menu display state.

Radio Settings Menu Operation

Short press the [M1] key to pop up the radio settings menu, as shown in the diagram below:



Option and adjustment method:

1. Rotate the MFK outer ring to scroll and select the item to adjust. As shown in the diagram above, "PRE" is selected.
2. Rotate the MFK inner ring to adjust the setting or value of the current item.
3. For some switch-type menu items and menu items with fewer than 5 parameter values, you can continuously touch to adjust.

Menu page turning operation:

The top of the page displays "MENU-1(1/2) GENERAL", indicating that the menu has 2 pages in total, and the current one is page 1.

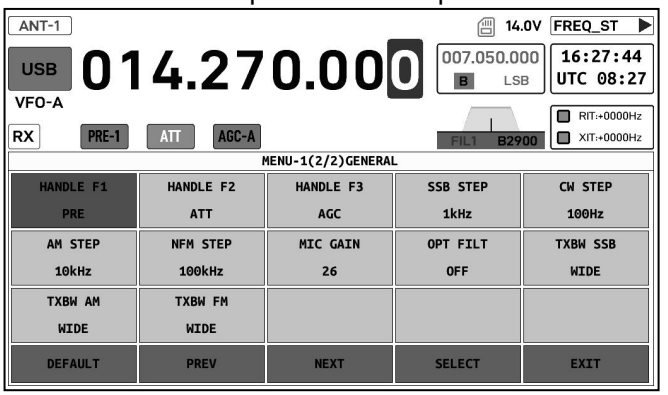
1. Short press the [NEXT] button to enter the second menu page.
2. Short press the [PREV] button to return to the previous menu page.

“MENU-1 (1/2)”Menu function and operation description:

No.	Menu Item	Function	Operation Description
1	PRE	Preamplifier	Turn on the preamplifier. Two amplifier options are available: PRE1/PRE2. Under strong signal conditions, turn off the preamplifier to improve the dynamic capability of the receiving front end.
2	ATT	Pre-attenuator	It is recommended that when the received signal strength is greater than S9+10dB, select this item as ON to turn on the pre-attenuator to avoid receiver blocking.
3	AGC	Automatic Gain Control	Can select OFF, SLOW, FAST, AUTO. When AUTO is selected, the device automatically sets the AGC control rate according to the current mode.
4	SPLT	Split Frequency Transmit/Receive Switch	Turn on this function. After correctly setting VFOA/VFOB, split frequency transmit/receive operation can be performed.
5	ANT SELECT	Antenna Switch	Switch to select one of the two antenna ports ANT1 or ANT2 on the rear of the main unit.
6	VOX	Voice Control Switch	Turn on the voice control switch to enable the VOX function.
7	VOX TIMEOUT	TIMEOUT Voice Control Delay Setting	Set the PTT release delay time of the voice control function.
8	VOX THRESHOLD	THRESHOLD Voice Control Threshold Setting	Set the trigger threshold of the voice control function.
9	LINE IN GAIN	Line Input Gain	When connected to a computer for data communication, if the external input audio signal is too low, this parameter value can be appropriately increased.
10	LINE OUT GAIN	Line Output Gain	When connected to a computer for data communication, adjust this parameter to set the output audio amplitude.
11	MONITOR LEVEL	Monitor Level	Adjusts the monitor audio volume from the speaker. Do not set the value too high, otherwise audio howling may occur. Note: The monitor switch in the voice call interface is not controlled by this option.

12	BAND STACK	Band Register	Can select HAM BAND (amateur radio bands only) or ALL BAND (all bands). When HAM BAND is selected, pressing the BAND key to switch bands will only switch between amateur bands. The default is HAM BAND.
13	COMP	Voice Compression Switch	Turn on the voice compression function to make the transmit power in voice mode more stable.
14	COMP RATIO	Speech Compression Ratio	Adjust the speech compression ratio
15	BEEP VOL	Prompt Volume	Adjust the operation prompt volume

"MENU-1 (2/2)" Menu Function and Operation Description:

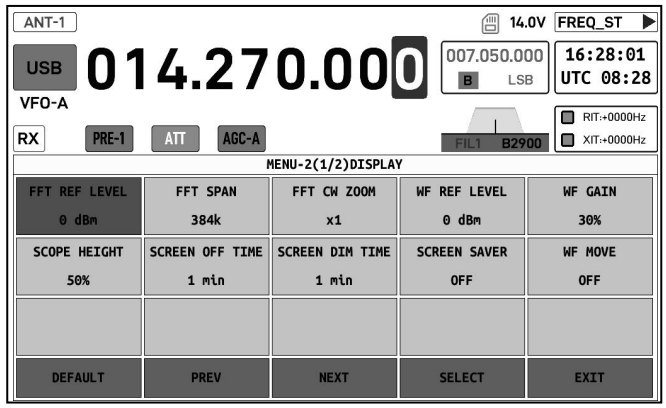


16	HANDLE F1	Microphone F1 Key Function Setting	Function setting for the F1 key on the H-22 microphone. Default is PRE switch.
17	HANDLE F2	Microphone F2 Key Function Setting	Function setting for the F2 key on the H-22 microphone. Default is ATT switch.
18	HANDLE F3	Microphone F3 Key Function Setting	Function setting for the F3 key on the H-22 microphone. Default is AGC option.
19	SSB STEP	SSB Step	SSB mode step frequency selection.
20	CW STEP	CW Step	CW mode step frequency selection.
21	AM STEP	AM Step	AM mode step frequency selection.
22	NFM STEP	NFM Step	NFM mode step frequency selection.
23	MIC GAIN	Microphone Gain	Adjust the microphone gain.
24	OPT FILT	High-performance Amateur Narrowband Filter	Turn on this switch to engage four groups of high-performance narrowband filters, corresponding to the 80m, 40m, 30m, and 20m bands

			respectively. See "Appendix 2" for details.
25	TXBW SSB	Transmission bandwidth of SSB mode	Can be set to WIDE, MID, or NAR.
26	TXBW AM	Transmission bandwidth of AM mode	Can be set to WIDE, MID, or NAR.
27	TXBW FM	Transmission bandwidth of FM mode	Can be set to WIDE, MID, or NAR.

Display / EQ Menu Operation

Short press the [M2] key to pop up the display settings menu, as shown in the diagram below:



"MENU-2 (1/2)" Menu Function and Operation Description:

No.	Menu Item	Function	Operation Description
1	FFT REF LEVEL	RF Spectrum Reference	Adjust this parameter to set a suitable RF spectrum noise floor according to the current noise floor level.
2	FFT SPAN	RF Spectrum Bandwidth	Spectrum bandwidth setting. This parameter adjusts the frequency bandwidth displayed in the main interface spectrum window. It can be adjusted to 384k, 192k, 96k, 48k bandwidth.
3	FFT CW ZOOM	CW Zoom	In CW mode, adjust this option to narrow the spectrum display window centered on the current frequency for clearer observation of CW signals. Zoom options: 2x, 4x, 8x. Select OFF to disable.

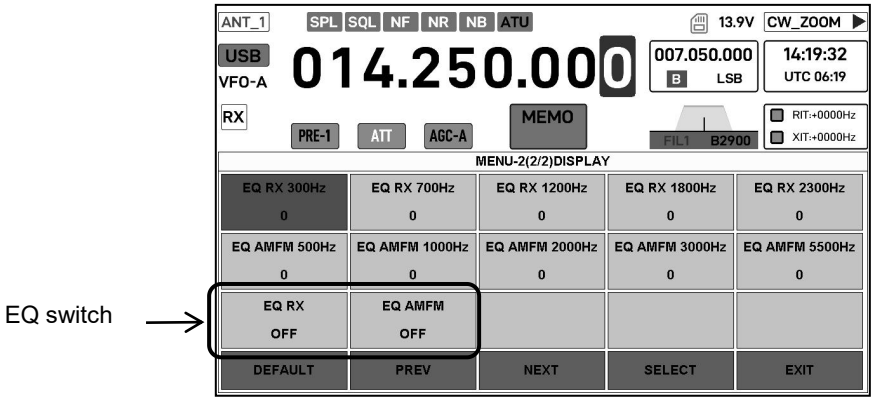
4	WF REF LEVEL	Waterfall Reference	Adjusts the waterfall visualization effect to improve signal visibility. If the waterfall is too bright or too dark, adjust this parameter. Range: ±20dBm.
5	WF GAIN	Waterfall Gain	Adjust waterfall gain
6	SCOPE HEIGHT	Spectrum/Waterfall Ratio	This item adjusts the display ratio of the spectrum window and waterfall window.
7	SCREEN OFF TIME	Screen Off Time	Set the screen off time
8	SCREEN DIM TIME	Backlight dimming time	The time it takes for the screen backlight brightness to automatically dim.
9	SCREEN SAVER	screen saver switch	Turn the screen saver on/off.
10	WF MOVE	Waterfall chart panning	Turn on/off the waterfall panning function.

Screen saver setting description:

1. The screen off time should be set longer than the backlight dim time.
2. After turning on the screen saver switch, when the standby time (time without any key, knob, or touch operation) reaches the "screen backlight dim" time, the controller automatically lowers the screen backlight brightness; when the standby time reaches the "screen off" time, the controller automatically turns off the screen.

"MENU-2 (2/2)" Menu Function and Operation Description:

This menu page is the mixer interface, which can adjust the segmented frequency response of the demodulated audio signal. Before setting EQ parameters, turn on the corresponding EQ switches: EQ-RX, EQ-AMFM.

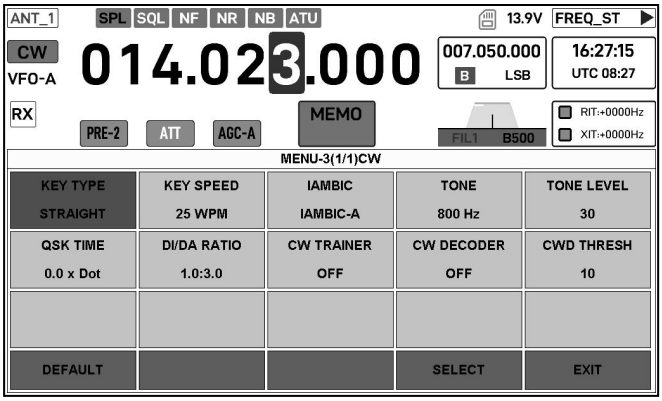


EQ switch →

EQ RX 300Hz	EQ RX 700Hz	EQ RX 1200Hz	EQ RX 1800Hz	EQ RX 2300Hz
EQ AMFM 500Hz	EQ AMFM 1000Hz	EQ AMFM 2000Hz	EQ AMFM 3000Hz	EQ AMFM 5500Hz
EQ-RX OFF	EQ-AMFM OFF	///	///	///

CW Parameter Settings

Set the mode to CW, then short press the MFK knob to enter the CW parameter setting interface, as shown in the diagram below:



"CW Settings" Menu Function Definitions and Operation Description:

No.	Menu Item	Function Description
1	KEY TYPE	Morse Key Mode. Options: STRAIGHT, SQUZ KEY, SQUZ KEY(R).
2	KEY SPEED	Automatic keyer speed setting.
3	IAMBIC	Iambic mode. Options: IAMBIC-A, IAMBIC-B.
4	TONE	Sidetone frequency setting.
5	TONE LEVEL	Sidetone volume setting.
6	QSK TIME	CW transmit/receive switching time. Adjust the MFK inner ring to set it to N dot times.
7	DI/DA RATIO	Dot/dash ratio setting.
8	CW TRAINER	CW trainer. When turned on, the main unit will not output RF power; if the decoder is turned on at this time, the message you send will be displayed.
9	CW DECODER	CW decoder. When turned on, the decoded message will be displayed in the waterfall display area.
10	CW THRESH	CW decode threshold setting.

Note!

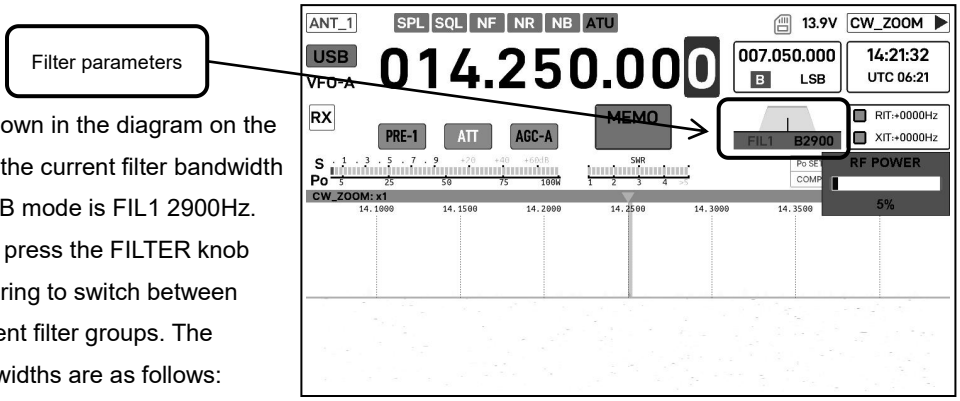
- The decoding accuracy of the CW decoder is affected by factors such as current signal strength and the accuracy of the sending station's dot/dash ratio. It cannot be completely accurate and is intended only as an auxiliary aid for receiving.
- After turning on the CW decoder, adjusting the CWD THRESH threshold to an appropriate value can improve the decoding rate.

Operation:

Touch an option to select it, then rotate the inner ring of the MFK knob to adjust the parameter.

Digital Filter Settings

The G7250 has three groups of digital filter parameters with different bandwidths for different modes, and uses FIL1 parameters by default, as shown in the diagram below:



As shown in the diagram on the right, the current filter bandwidth in USB mode is FIL1 2900Hz. Short press the FILTER knob inner ring to switch between different filter groups. The bandwidths are as follows:
FIL2 bandwidth: 2400Hz.
FIL3 bandwidth: 1800Hz.

`Operation method for adjusting filter parameters:`

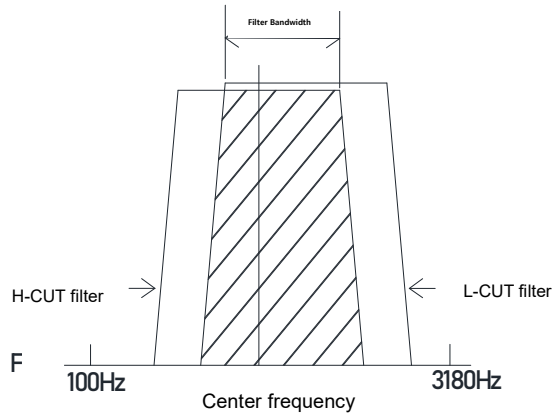
1. Short press the FILTER knob inner ring to select FIL1~3 filter groups.
2. The MFK inner ring adjusts the right half parameters of the filter, and the MFK outer ring adjusts the left half parameters of the filter. The two parts of the filter are represented by red and blue trapezoidal boxes. The blue trapezoidal box is the high-cut filter (H-CUT), and the red trapezoidal box is the low-cut filter (L-CUT).
3. After adjustment, the overlapping part of the two colored boxes is the current filter effective bandwidth, and its value is also displayed below.
4. Long press the MFK inner ring knob to restore the current filter group parameters to default parameters.
5. In different modes, the parameters of each filter group are different and automatically switch according to the current mode.
6. Adjust the start frequency and cutoff frequency of the filter respectively to set the filter. The overlapping area of the two trapezoidal filter diagrams is the actual working range of the filter, as explained below:

As shown in the diagram on the right, the filter is formed by the combined action of L-CUT and H-CUT to form the effective filter bandwidth.

L-CUT controls the low boundary frequency and can effectively cut off low-frequency components;

H-CUT controls the high boundary frequency and can effectively cut off high-frequency components;

In daily use, adjust according to your own usage habits to achieve the best listening effect.

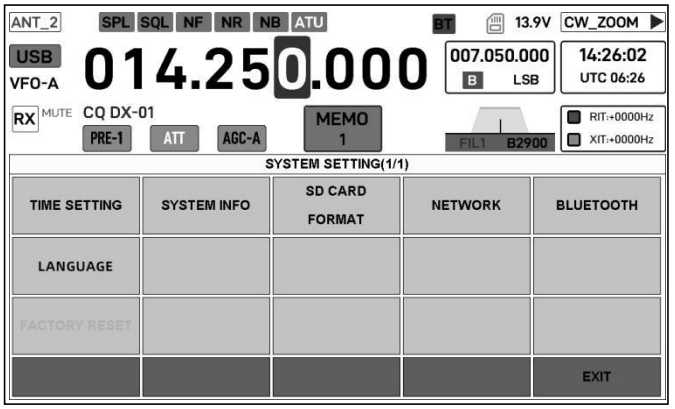


Note!

- If the actual filter bandwidth is smaller than the current signal bandwidth, useful signals will be cut off, resulting in no signal sound or severe sound distortion.

SYSTEM Menu Settings

Short press the [SYS] key to enter the "System Settings" menu page, as shown in the diagram below:



"System Settings" Menu Function Definitions and Operation Description:

No.	Menu Item	Function	Operation Description
1	TIME SETTING	Time Setting	Can set year, month, day, hour, minute, second values respectively, and set the time server address.
2	SYSTEM INFO	System Information	Can view version information of each firmware.
3	SD CARD FORMAT	Format Memory Card	Format the memory card.
4	NETWORK	Network	Settings Network parameters. See the network chapter for details.
5	BLUETOOTH	Bluetooth	Settings Bluetooth parameters. See the Bluetooth chapter for details.
6	LANGUAGE	Language Selection	Options: English / Simplified Chinese
7	FACTORY RESET	Factory Reset	Restore factory settings.

`Operation method:`

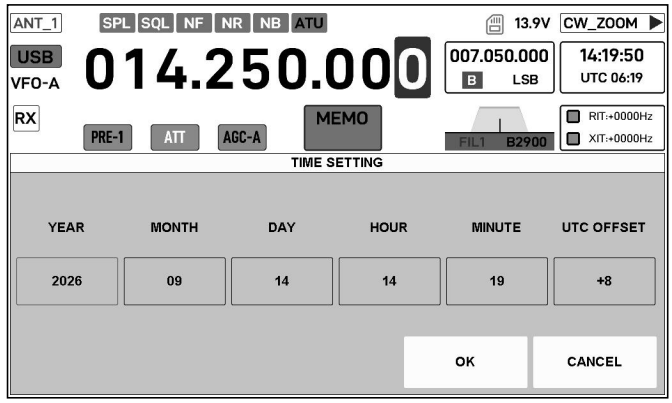
Touch a button to enter the setting interface for that item.

Time Setting

Enter the time setting page, as shown in the diagram on the right.

Operation method:

1. Touch or rotate the MFK inner ring to select the date or time, then short press the MFK inner ring once to select the item. The item box becomes black with green text.



2. Rotate the MFK inner ring to adjust the value. After adjustment, short press the MFK inner ring once again to exit the current adjustment position. Adjustment of other positions is the same.

3. After adjusting the date, time, and time zone, touch the [OK] button on the interface to save and exit the page.

System Information

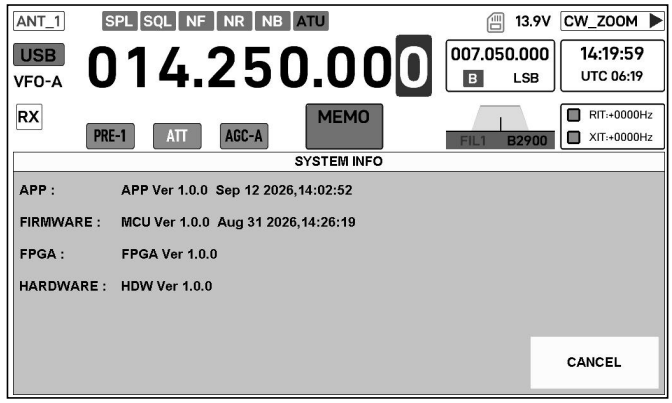
Enter the system information page, as shown in the diagram on the right.

APP: Controller firmware version information.

FIRMWARE: Main unit firmware version information.

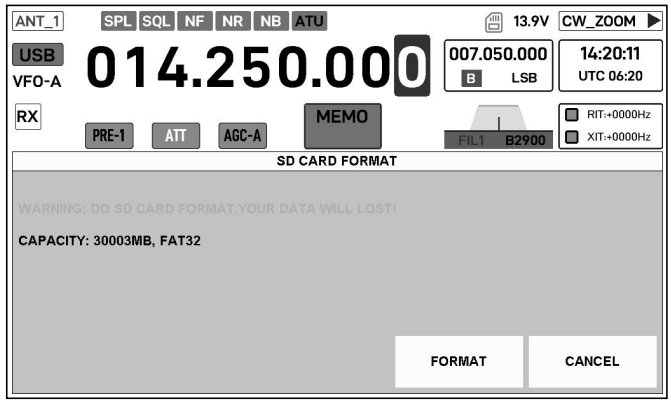
FPGA: FPGA firmware version information.

HARDWARE: Hardware version information.



SD Card Format

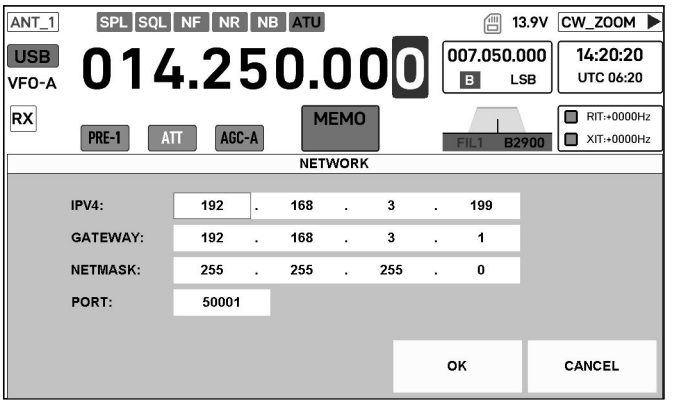
Enter the SD card format page, as shown in the diagram on the right. Click the [FORMAT] button to format the memory card as FAT32.



■ **Caution!** Formatting the memory card will lose all information stored on the card. Please check and back up before formatting.

NETWORK Settings

Enter the NETWORK page, as shown in the diagram on the right. Set the network parameters and connect the wired network interface at the rear of the main unit to a network switching device. You can use the PC software HDSDR to receive the digital baseband signal transmitted by the G7250 over the network, and perform demodulation and control. All parameters can be default.



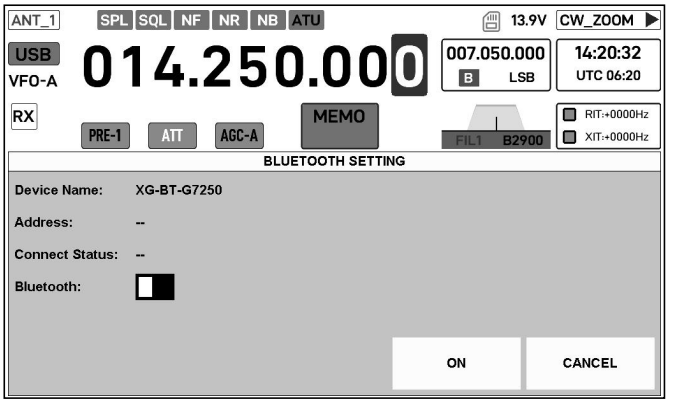
❖ For specific usage methods, see "G7250 HDSDR Network Reception Tutorial".

Bluetooth Settings

Enter the Bluetooth settings page, as shown in the diagram on the right.

Operation method:

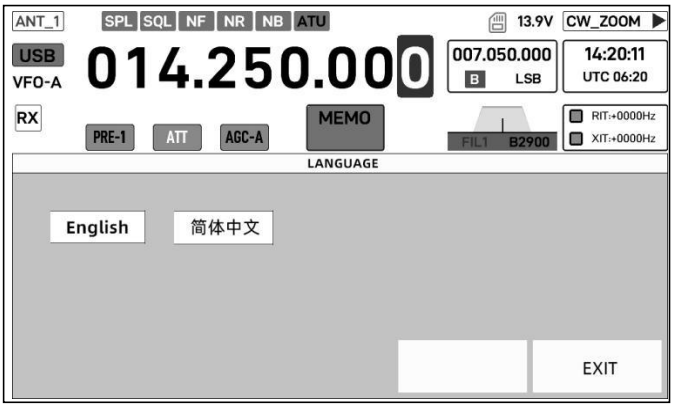
1. Click the [ON] button to turn on the G7250 Bluetooth device.
2. Ensure that your phone's Bluetooth is turned on and search for the G7250 Bluetooth device ID: XG-BT-G7250.
3. Click pair to complete the connection.



4. After connecting the Bluetooth device, the two-way audio channel and control channel between the phone and G7250 are established, and you can use the mobile data communication APP to complete contacts.
5. After use, click the [OFF] button to turn off Bluetooth and disconnect from the phone.

Language Settings

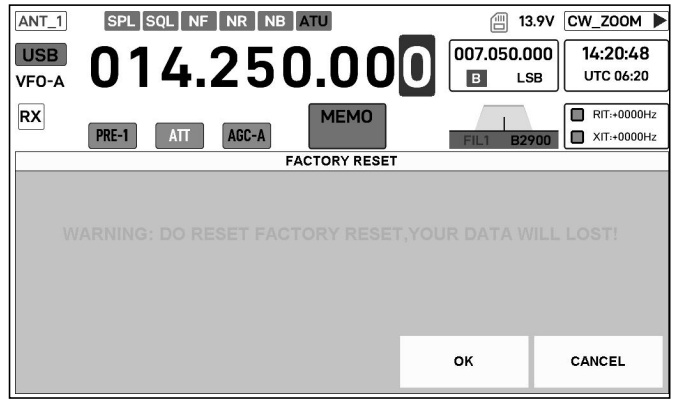
Enter the language settings page, as shown in the diagram on the right. Touch to select the language "English" or "Simplified Chinese".



Factory Reset

- **Caution!** Performing a factory reset will clear all your personalized settings and channel storage.

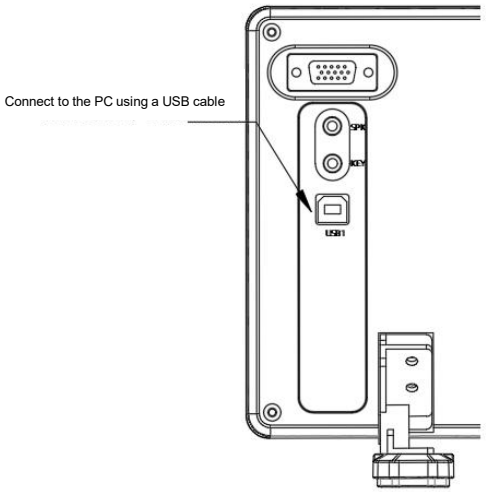
Enter the factory reset page, as shown in the diagram on the right. Click the [ON] button, and the G7250 will begin restoring factory default settings. After completion, the device will automatically restart.



Appendix

Appendix 1

Connecting to a PC for Data Communication and Control



Connection method:

1. As shown in the diagram above, connect the USB cable to the USB port on the G7250 controller.
2. Install the CH342 port driver, or use third-party driver tool software to install online.
3. In the data communication software (or control software), select the model "XIEGU G7250" or a compatible model to complete the connection.

Caution!

- If another compatible CIV command model is selected, some commands may not respond.

Connecting to N1MM for Automatic CW Sending

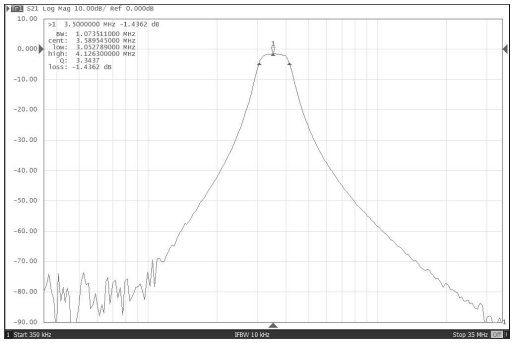
The connection method is the same as above. The USB cable is also connected to the USB port of the G7250 controller. Configure the N1MM settings to control the G7250 to send CW messages from the computer.

Appendix 2

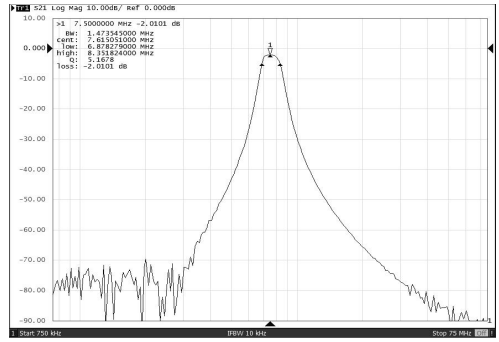
Introduction and Usage of High-Performance Narrowband Filters

On the four commonly used low-frequency amateur radio shortwave bands (80m, 40m, 30m, and 20m), the deteriorating electromagnetic environment has led to long-term strong electromagnetic interference on these bands, seriously affecting enthusiasts' communications on these frequencies.

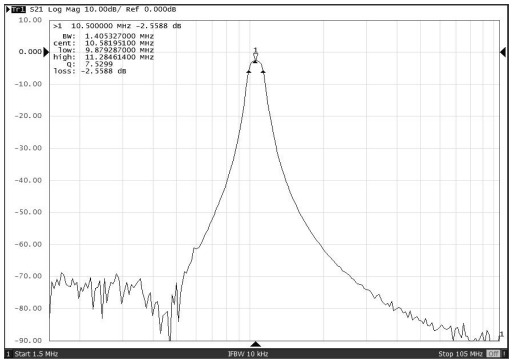
In response to this situation, the G7250 adds four groups of high-performance narrowband filters for the above bands in addition to the conventional filter groups. These are optimized specifically for amateur band use to ensure performance on low-frequency shortwave bands. The characteristics of the four filter groups are shown in the figures below:



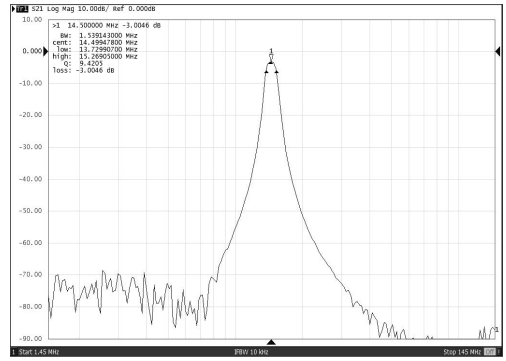
3.5MHz Band Amplitude-Frequency Characteristic Diagram



7MHz Band Amplitude-Frequency Characteristic Diagram



10MHz Band Amplitude-Frequency Characteristic Diagram



14MHz Band Amplitude-Frequency Characteristic Diagram

As can be seen, the 4 groups of high-performance narrowband filters have extremely steep transition bands, making the out-of-band suppression higher than that of conventional filter groups. They can effectively filter out out-of-band broadcast and industrial interference, greatly reduce strong out-of-band signals entering the radio, lower front-end third-order intermodulation distortion, increase the receiver's blocking level, prevent ADC overload, and improve the receiving signal-to-noise ratio.

Compared to conventional filter groups, these four high-performance filters have slightly higher insertion loss. However, since their bandwidth is significantly narrower than conventional filters, the performance improvement they bring is still significant. Users can flexibly switch according to their usage needs.

Usage:

1. Short press the [M1] key to enter the M1 menu, and go to the second page.
2. Touch [OPT FILT] to set it to ON, which engages the four groups of high-performance narrowband filters.

Attention!

Since the bandwidth of the narrowband filters is narrower than that of the conventional filter groups, signals near the filter cutoff frequency will be significantly attenuated, causing the out-of-band spectrum amplitude near certain critical frequencies to appear significantly weaker.

Parameters

Parameters Specifications

Frequency Range:	Receive：0.5MHz～30MHz		50.00～54.00MHz
	Transmit：1.8～2.0MHz		3.5～3.9MHz
	7.0～7.2MHz		10.1～10.15MHz
	14.0～14.35MHz		18.068～18.168MHz
	21.0～21.45MHz		24.89～24.99MHz
	28.0～29.7MHz		50.00～54.00MHz
Operating Modes：	CW、AM、SSB、FM、WFM		
Minimum Step：	1Hz		
Antenna Impedance：	50Ω		
Operating Temperature Range：	0℃ ～ +50℃		
Frequency Stability：	10 minutes after power on: ±1.5ppm @25°C: 1ppm/hour		
Power Supply Voltage：	DC13.8V ±15%, negative ground		
Current Consumption：	Receive：1.2A @Max Transmit：23A @Max		
Dimensions：	Main unit: approx. 240*210*75mm (LWH) (excluding protrusions) Controller: approx. 249*148*38mm (LWH) (excluding protrusions)		
Weight：	Main unit: approx. 2.97kg Controller: approx. 1.33kg		

Transmitter Parameters

RF Output Power：	SSB/CW/NFM:	100W ±1dB (13.8V) @Max
	AM:	25W ±1dB (13.8V) @Max
Spurious Suppression：	≧50dB	
Carrier Suppression：	≧50dB	

Receiver Parameters

Circuit Type：	RF Direct Sampling
Sideband Suppression：	≧50dB
MDS：	-138dBm (CW, BW=500Hz)

Receiver sensitivity:

Frequency band / Mode	SSB/CW	NFM	AM
0.5～1.799999MHz	/	/	10uV
1.8～1.999999MHz	0.25uV	/	10uV
2.0～27.999999MHz	0.25uV	/	2uV
28.0～30.000000MHz	0.25uV	0.25uV	2uV
50.0～54.000000MHz	0.25uV	0.25uV	2uV

(PRE1=on, ATT=off, NB=off, NR=off, AGC=on)

Audio Output Power ： 2W （4Ω，≤10% THD）
Audio Output Impedance ： 4～16Ω

Antenna Tuner Unit Parameters

Tuner Tuning Impedance Range: 20Ω～150Ω
Initial Tuning Time： ≤10 seconds
Memory Recall Tuning： ≤0.1 seconds

- All specifications are typical values and apply only to amateur radio bands. Due to technical improvements, the above specifications may be adjusted without notice.

- The operating frequency range of transceivers sold in different countries or regions will be set according to local regulatory requirements. Please consult your local dealer for details.

Packing List

Item Name	Quantity
G7250 Main Unit	1 unit
Controller	1 unit
Type-B Data Cable	1 piece
H-22 Microphone	1 piece
15-pin Connecting Cable (L2001)	1 piece
Power Cable	1 piece
Flat-end hex key	1 piece
Warranty Card	1 copy
User Manual	1 copy
Certificate of Conformity	1 copy (printed on the packing box label)

XIEGU

Wireless Technology, Infinite Creation

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XDT-B00
www.cqxiegu.com

Information in this manual may be subject to change due to equipment software upgrades without prior notice.