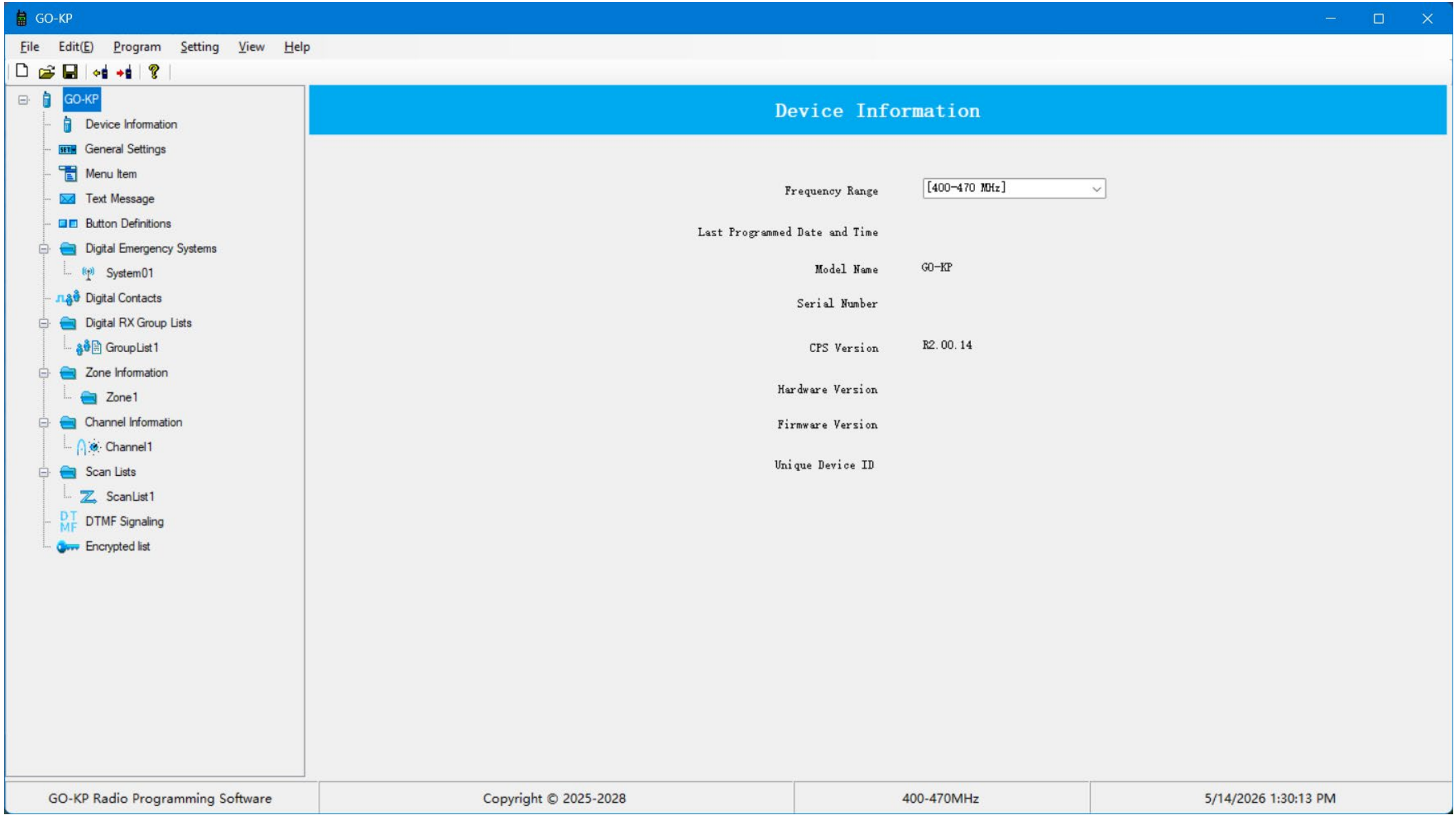
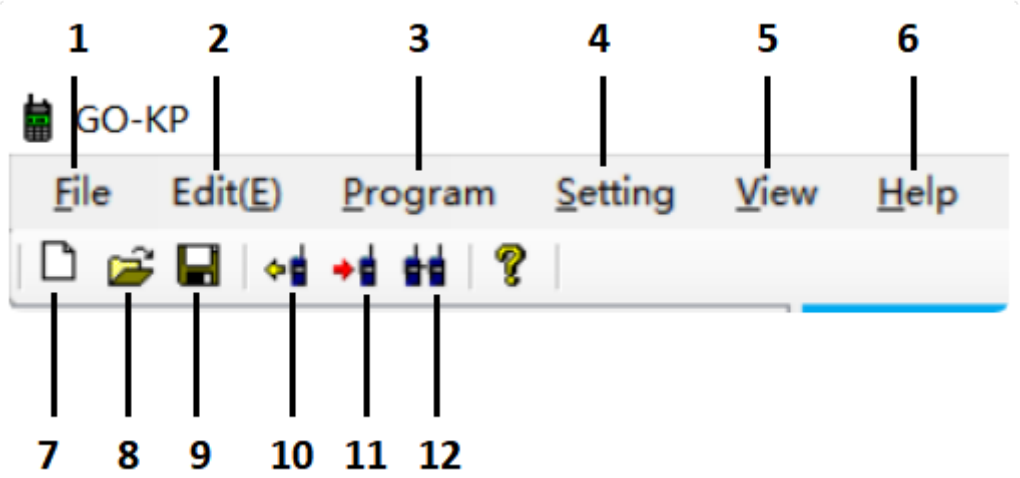
GO-KP Programming Software User Guide

Software Interface Overview



Tools Overview



1. File
- New
- Open
- Save
- Save As
- Exit

2. Edit
- Device Information
- General Setting
- Menu Item
- Text Message
- Buttons Definitions
- Digit Emergency Systems
- Digital Contacts
- Digital RX Group Lists
- Zone Information
- Channel Information
- Scan Lists
- DTMF Signaling
- Encrypted List
- Time Setting

3. Program
- Read data
- Write data
- Clone

4. Setting
- English

5. View
- Toolbar
- Status Bar
- Tree Bar

6. Help
- Help
- About

7. New

8. Open

9. Save as

10. Read

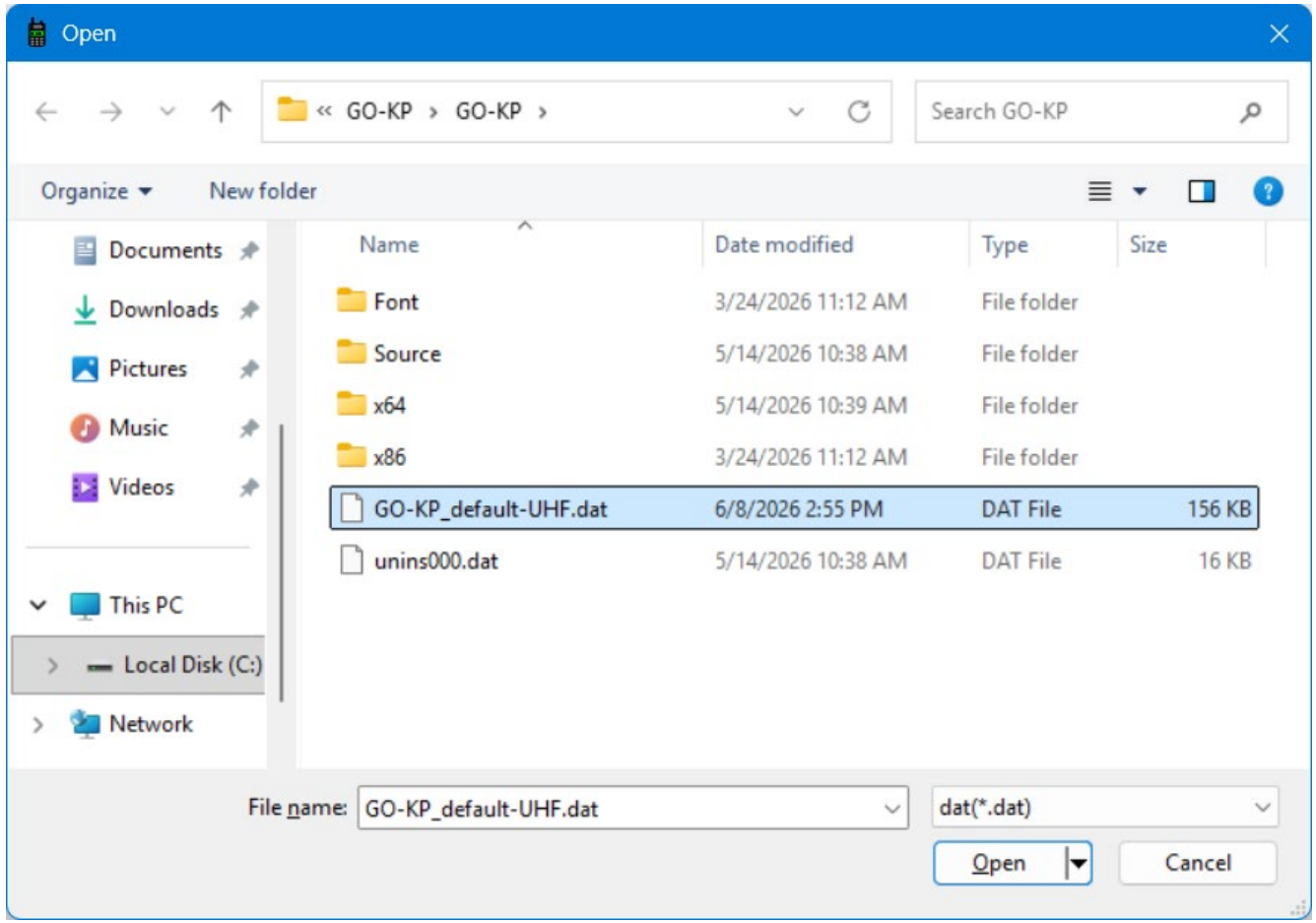
11. Write

12. Clone

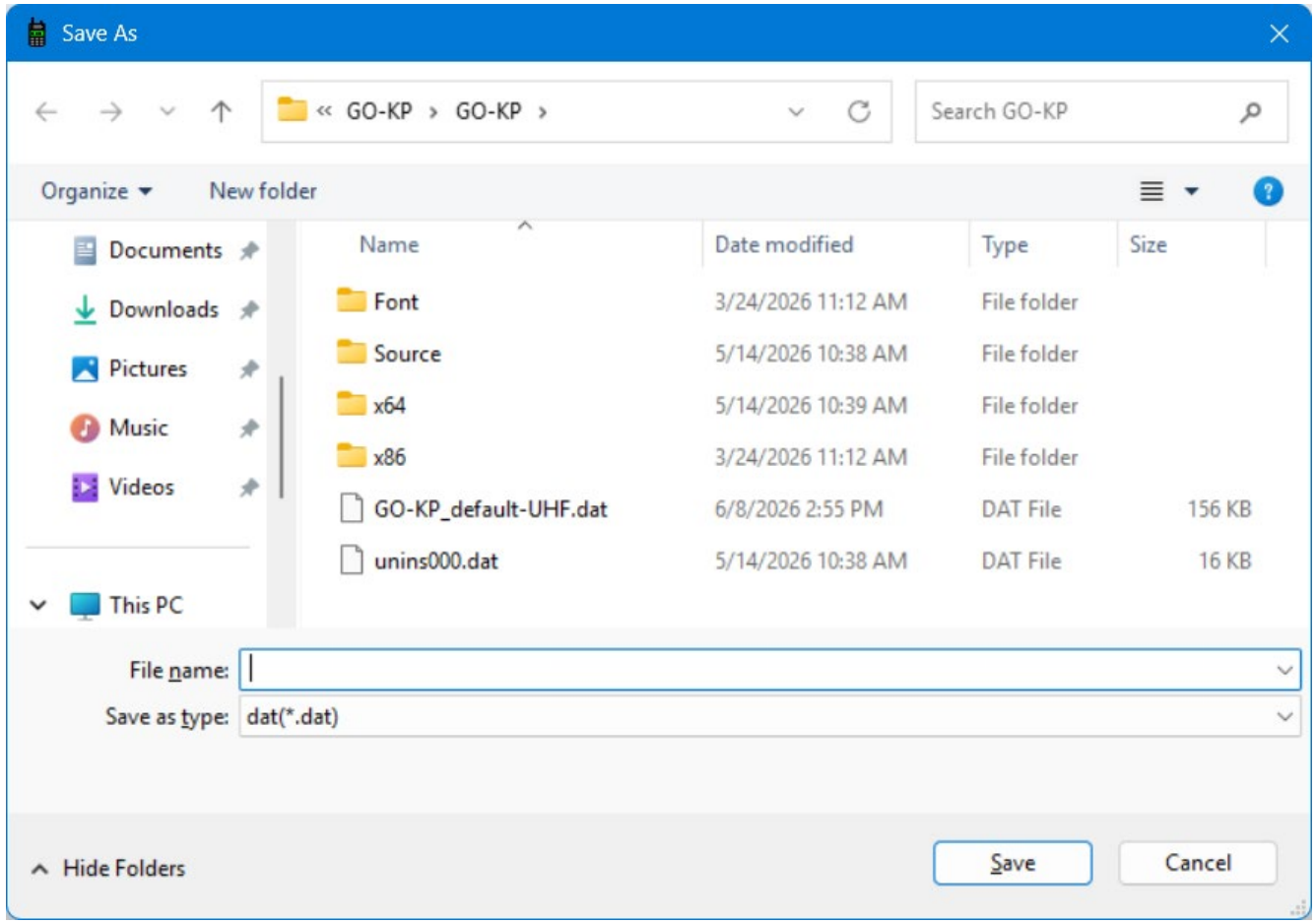
1. File

New - Erase all the data and create a new document. It is recommended to read a radio and build upon those settings.

Open – when clicking this option, you will see this window below, select your previously saved file, then press “Open” to open the data in the software.



Save / Save As – when clicking this option, you will see this window below, you can select the folder you want to save the file in and then press “Save”.



Exit – When you want to exit the software, and press the “exit” key, it will automatically exit the software.

2. Edit

Its dropdown menu is consistent with the software’s left-hand menu bar. We will explain the function of each menu option in detail following.

- Device Information
- General Settings
- Menu Item
- Text Message
- Button Definitions
- Digital Emergency Systems
- Digital Contacts

• Digital RX Group Lists
• Zone Information
• Channel Information
• Scan Lists
• DTMF Signaling
• Encrypted list

3. Programming

Read data - Read data from radio

Write data - Write data into radio

4. Setting

English - It is the only language option for GO-KP radio.

5. View

Here you can choose to show the Toolbar, Status Bar, Tree Bar, or hide them.

6. Help – has programming info similar to this manual. About – Shows the software version.

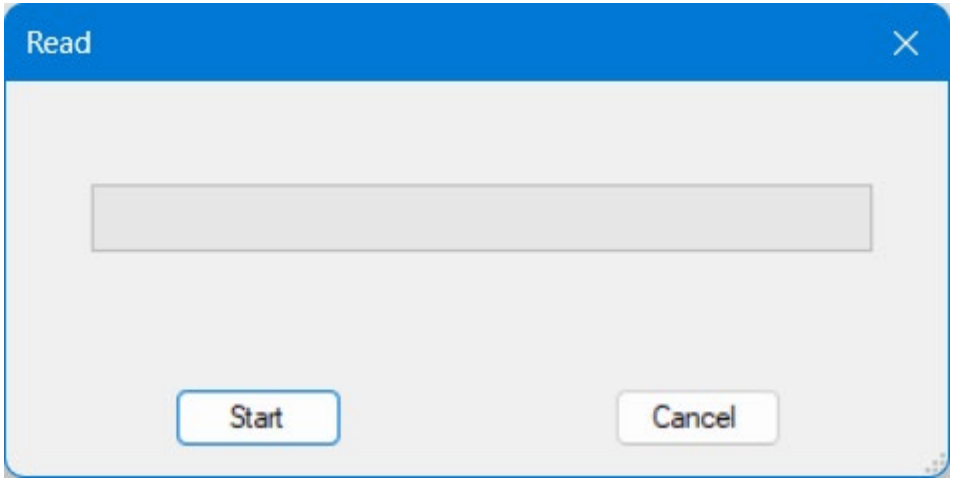
7. Paper Icon = New file.

8. Folder Icon = Open file.

9. Disk icon = Save as.

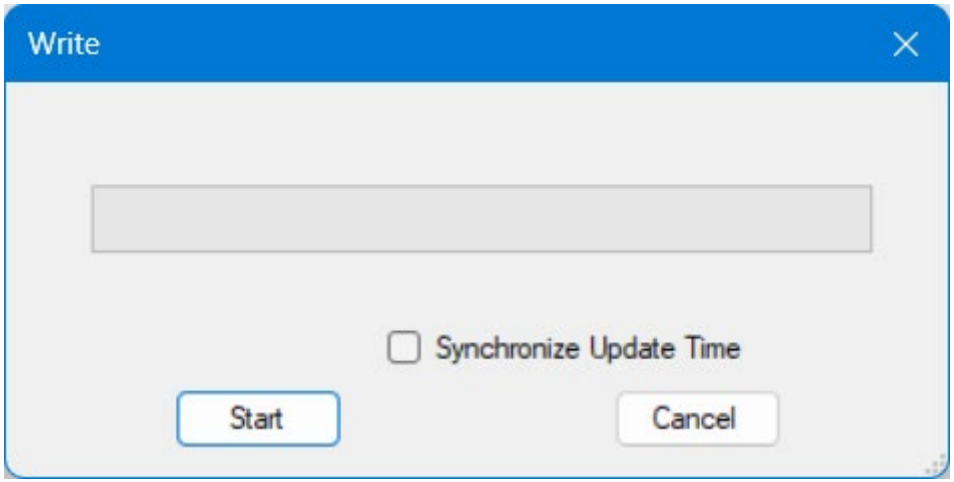
10. Read

– Press the button “start”, you will see the window as below, press “Start” to read the data from radio.

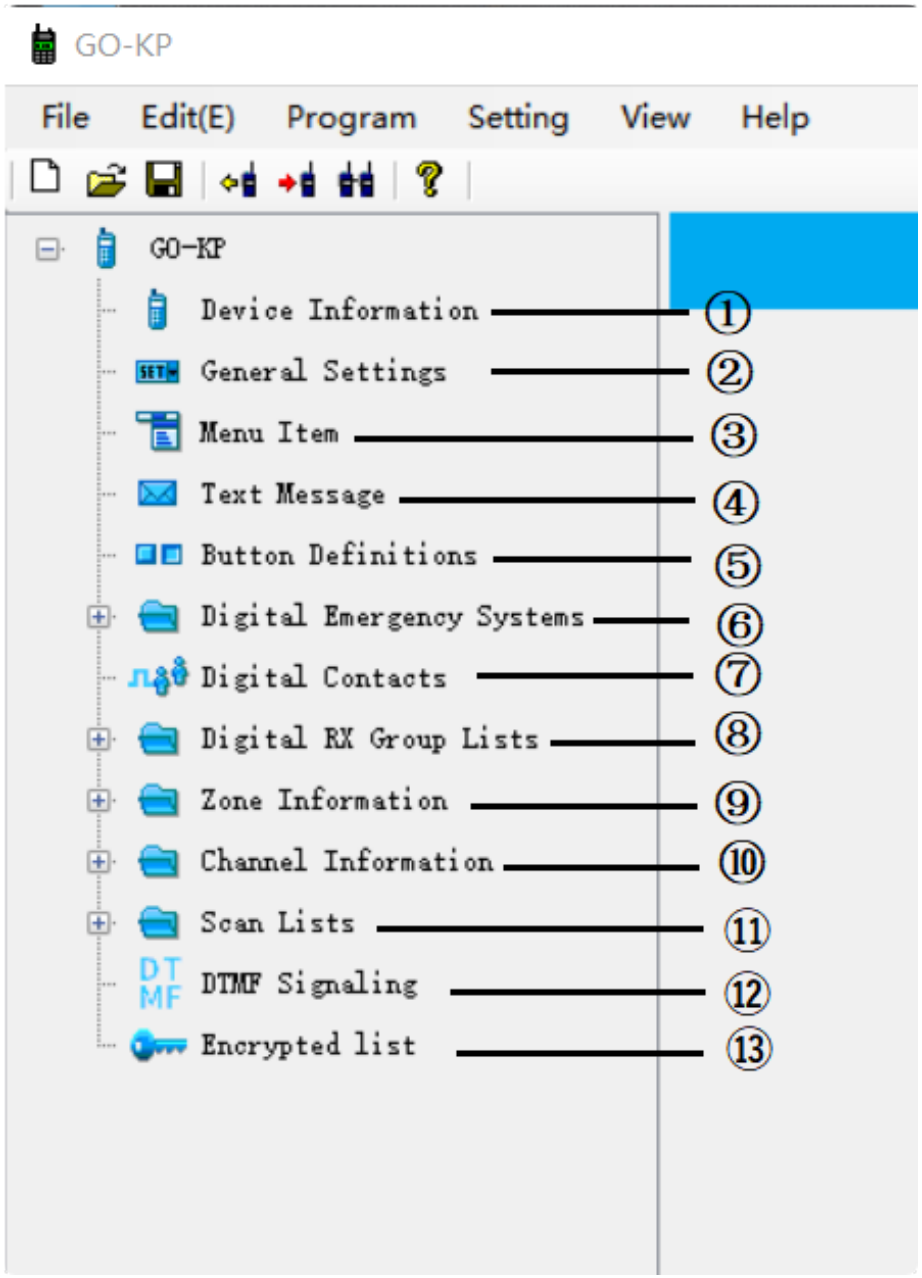


11. Write

– Press the button “start”, you will see the window as below, press “Start” to read the data from radio.



二、Functions Overview



① **Device information**

Frequency Range: Set the range value of the radio frequency.

Last Programmed Date: The last time when the radio is programmed.

Model Name: If the model is different, the function will be different.

Serial Number: Serial number written into the radio.

CPS Software Version: The current programming software version.

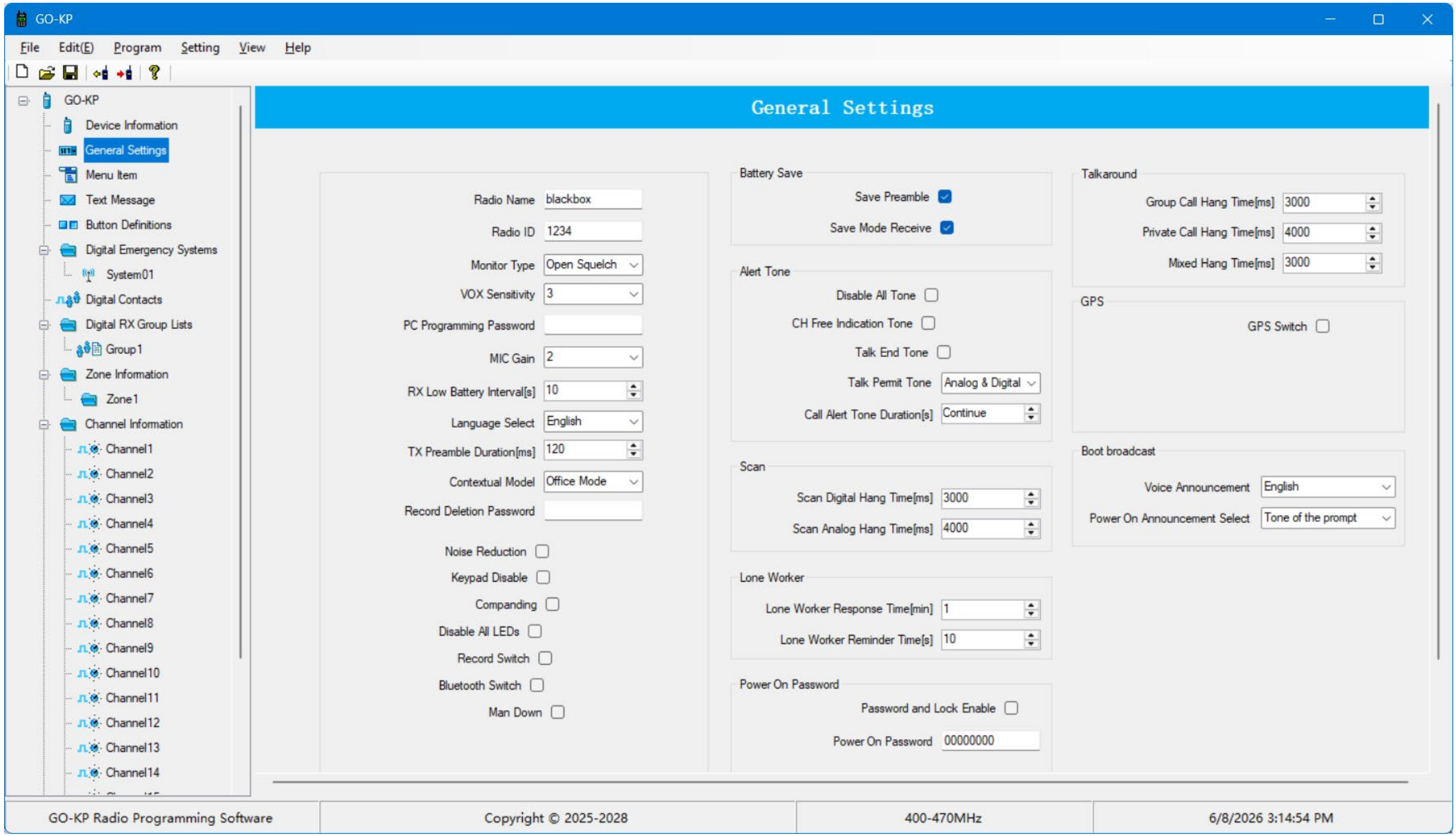
Hardwar Version: The hardware version of the current radio.

Firmware Version: The Firmware version of the current radio.

Unique Device ID: The only character string display radio,

each has a unique device ID.

② General Settings



Radio Name: Set the name of the current radio display when the radio is power on.

Radio ID: Used to set identity for each device ID. For digital single call, the ID number of the current radio set.

Monitor Type: Sets the working mode of the Monitor Speaker.

VOX Sensitivity: Set the VOX sensitivity.

PC Programming Password: Set the programming password.

MIC Gain: This parameter is used to set MIC gain.

RX Low Battery Interval: Used to set the process of receiving, when the battery power is lower than the standard case, suggesting that the interval time of low power.

Language Select: The language used to select the display of the radio.

TX Preamble Duration: In order to ensure that the radio in scan status or low power status can recover to normal status for receiving and transmitting, the transmitted party should transmit carrier waves for a certain time to enhance communication reliability and completeness.

Contextual Model: This parameter is used to select the corresponding mode. The options include office mode and outdoor mode.

Record Deletion Password: Set the password of deletion data.

Noise Reduction: Used to set the on and off of noise reduction.

Keypad Disable: When check it, the keypad is invalid. On the contrary, the keypad is valid.

Companding: Used to set the expansion on and off.

Disable All LEDs: Select to disable all LEDs.

Record Switch: Open / close record.

Bluetooth Switch: Open / close Bluetooth function.

Man Down: Open / close man down function.

Battery Save:

Save Preamble: Enable/disable Save Preamble. Sending out preamble before every transmission to strengthen the capacity of the received radio in the save mode. The transmission and receiving can be therefore synchronized and avoid late entry.

Save Mode Receive: Enable this feature and the free radio will enter the save mode automatically, and some other radios will stay in stand-by status on this mode. After a certain period or when the user performs key operation, the radio will return to normal operation and check if there is any incoming call on the channel. If an incoming call is not detected, the radio will return to save mode, which extends battery duration but also leads to late response.

Alert Tone:

Disable All Tone: Select this feature to disable all the alert tones. Default: unchecked.

CH Free Indication Tone: Enable this feature and the channel free indication tone will alarm on the received radio after the transmitted party released the PTT button to remind the received party that the channel is free and the PTT button can be pressed for speaking. This feature is only available for digital mode. Default: unchecked.

Talk End Tone: This parameter enables you to select the call hold duration (group call, individual call).

Talk Permit Tone: Press the PTT button and establish a call on the current channel, the user can then set the alert tone and talk. You can set the alert tone to only be available for digital mode or analog mode, or for both digital and analog mode.

Call Alert Tone Duration: Set the emergency alert tone duration.

When it is set as “Continue”, the received radio will continue to give out an alert tone in cycles until the user exits emergency.

When it is set as other option of time, the received radio will continue to give out an alert tone until the time is up.

Scan

Scan Digital Hang Time: Set the duration during which the scan stays on the digital channel after the conversation is over.

Scan Analog Hang Time: Set the duration during which the scan stays on the analog channel after the conversation is over.

Lone Worker

Lone Worker Response Time: Set the alarm entry time in the condition where there is no manual operation on the radio after the radio enters Lone Worker mode.

Lone Worker Reminder Time: Set the pre-reminder time prior to entering alarm after the radio enters Lone Worker mode.

Power on Password

Password and Lock Enable: When set to be valid, start the password function.

Power On Password: Used to set the password enabled. Must enter 8 bits.

Talk Around

Group Call Hang Time: after the PTT button is released, the group call will remain for a certain time, during which the group members can press the PTT button and respond to the call in the group. After the call hang time is due, the conversation is over, and the channel resource will be released.

Private Call Hang Time: after the PTT button is released during a private call, the channel will remain occupied for a certain time during which the two parties of the private call can press the PTT button and respond directly to each other. After the call hang time is due, the conversation is over and the channel resource will be released.

Mixer Hang Time: In a mixed channel, after a call ends, the channel stays in the current channel type for a period of time. After the call ends, the channel restores to the default channel type.

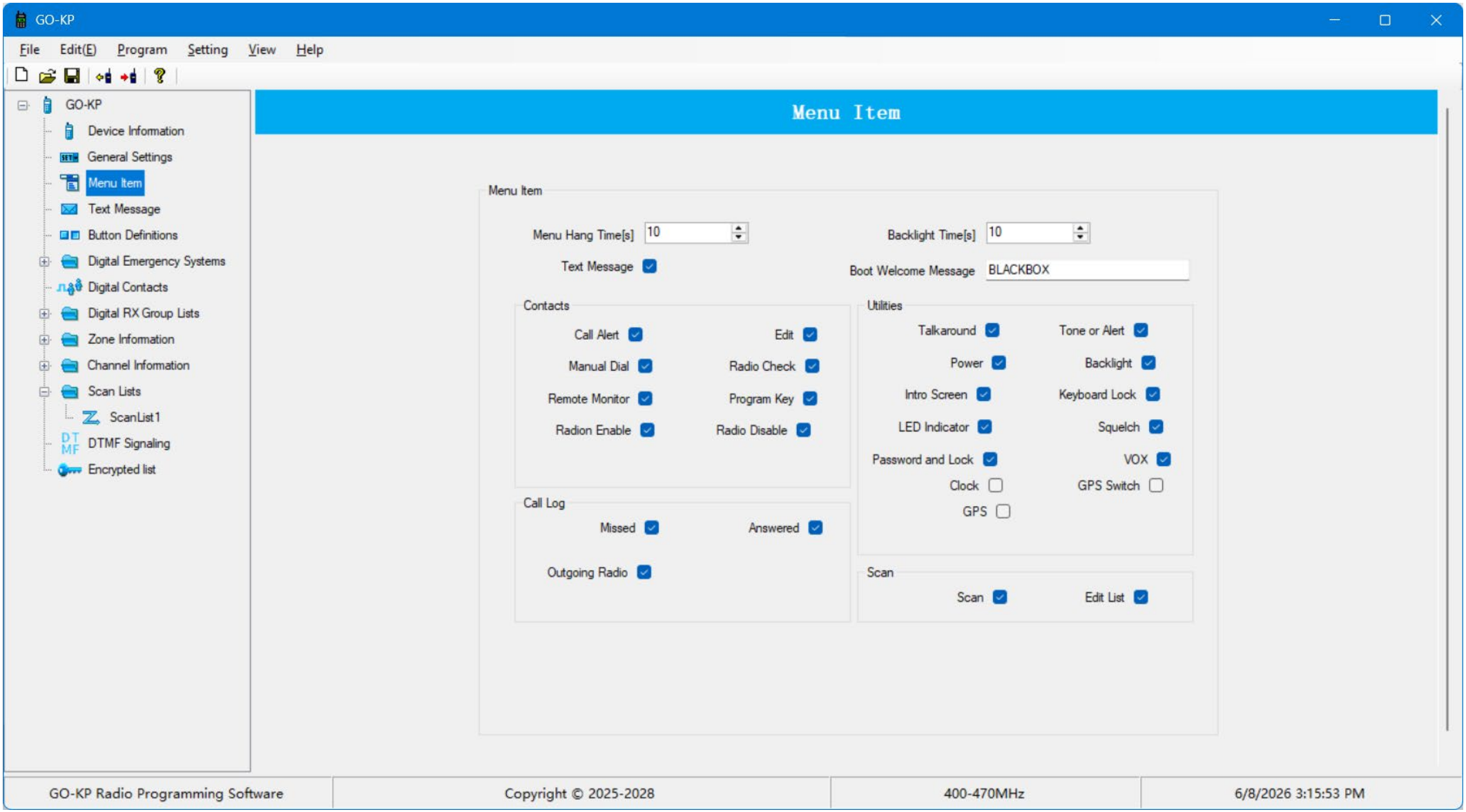
Boot Broadcast

Voice Announcement: voice announcement when radio power on.

Power On Announcement: You can change the parameters to select the power up tone and voice prompt, Two options:
Tone of the prompt, Mute.

③ Menu Item

Menu setting is used for managing the operation authority of the user on the radio. Any menu item which is not checked will be hidden to limit the user on operating the feature.



Menu Hang Time[s]: Set the time when the menu is suspended.

Text Message: Set the duration for which the backlight is on.

Backlight Time[s]: The SMS function is displayed on the menu.

Boot Welcome Message: Set the boot greeting.

Contacts:

Call Alert: Displaying the "Call Alert" function in the contact menu.

Edit: Displays the "Edit" function in the contact menu, allowing the user to edit the current contact.

Manual Dial: Display the "Manual Dial" function in the contact menu, allowing the user to manually dial through the keyboard.

Radio Check: Display the "Radio Check" function in the contact menu.

Remote Monitor: Displaying "Remote Monitor" function in the contact menu, allowing the user to listen to other radio.

Program Key: Displays the "Program Key" function in the contact menu, allowing the user to dial.

Radio Enable: Displays the "Radio Enable" function in the contact menu, allowing the user to enable the radio which is killed.

Radio Disable: Displays the "Radio Disable" function in the contact menu, allowing the user to disable the lost radio.

Utilities:

Talkaround: Whether the user can switch work mode. The work mode includes direct mode and repeater mode.

Tones or Alerts: Whether the user can adjust the alert tone through the menu.

Power: Whether the user can adjust the TX power level through the menu.

Backlight: Whether the user can control the backlight through the menu.

Intro Screen: Allows the user to enable or disable the introduction screen through the menu.

Keypad Lock: Whether the user can enable or disable the keyboard lock through the menu.

LED Indicator: Whether the user can enable/disable LED indicator function.

Squelch: Whether the user can set the squelch level of the radio through the menu.

Password and Lock: Allow the user to enable or disable this feature through the menu.

VOX: Whether the user can enable or disable VOX function through the menu.

Scan:

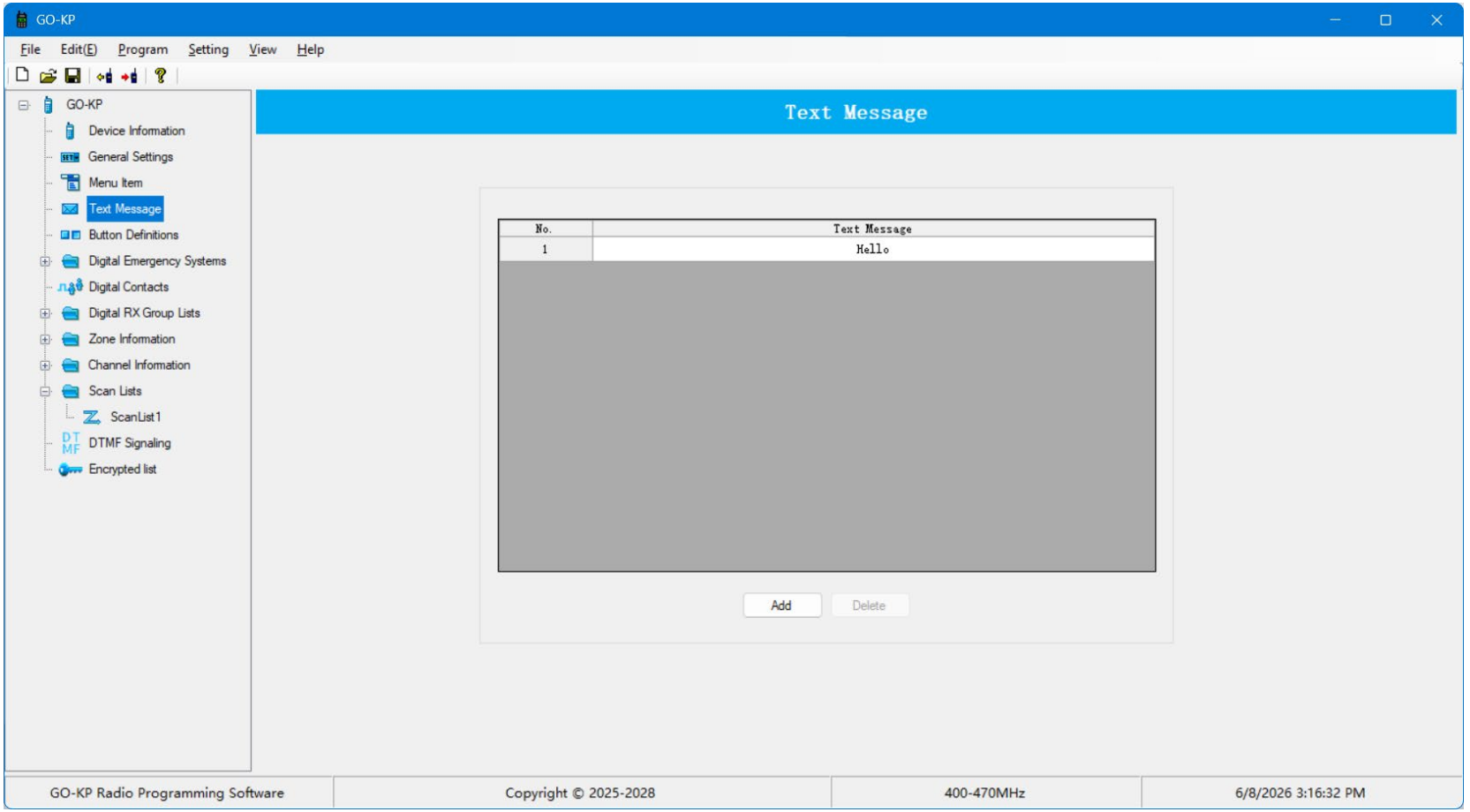
Scan: This function enables the user to start or exit the scan through the menu.

Edit List: this feature will be displayed on the scan menu.

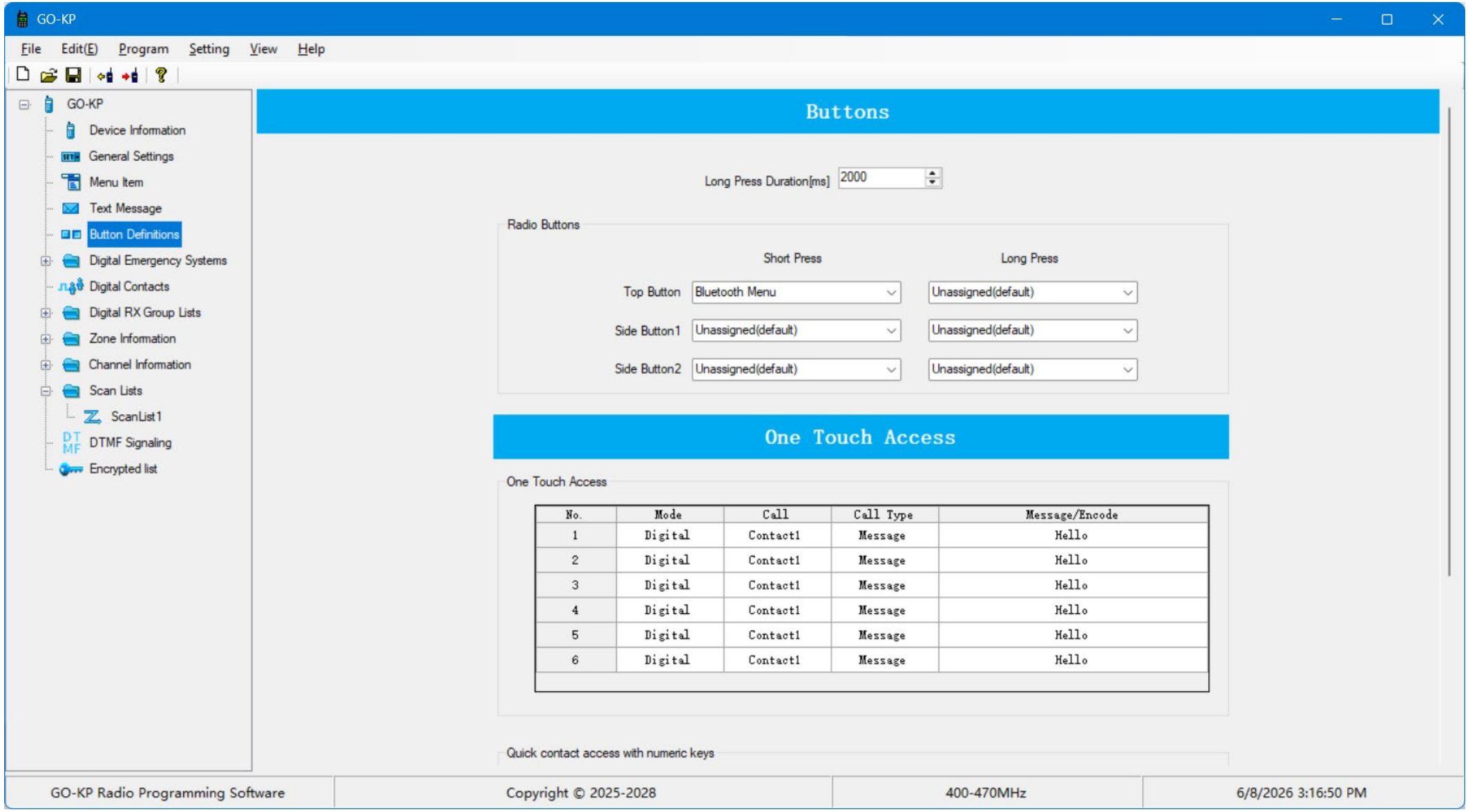
④ Text Message

Text Message feature is used for setting general digital text messages. A maximum of 50 messages can be set.

A maximum of 144 characters in one text message can be set.



⑤ Button Definitions



Buttons Definitions

Set the feature for the programmable buttons.

Long Press Duration [default 2 seconds]: Press the button to be recognized the duration for a long press.

Short Press or Long Press to active corresponding Option Features Description on Top button, Side Button1, Side Button2

Unassigned: No feature is assigned.

All Alert Tones On/Off: Open or close all the alert tone at the same time.

Emergency On: Open emergency.

Emergency Off: Close emergency.

High/Low Power: Switch High / Low Power.

Monitor: Open/Close monitor.

Nuisance Delete: Temporary delete unused channel.

One Touch Access 1/2/3/4/5/6: Press the programmed button and initiate a call by one touch access.

Repeater/Talkaround: Switch between repeater mode and talkaround mode.

Scan On/Off: Open/Close scan.

Tight/Normal Squelch: Set squelch level.

VOX On/Off: Open/Close VOX.

Zone Toggle: Select the zone.

Lone Work On/Off: Open/Close Lone Work. Only available for digital channels.

Record On/Off (Firmware): Start/Stop Recording (according to the firmware).

Delete All Record (Firmware): Delete all record data (according to the firmware).

Record Playback (Firmware): Playback record data (according to the firmware).

Companding: Open/Close Companding.

TX Interrupt: Open/Close this function to interrupt the other party’s transmission.

Noise Reduction: Open/Close Noise Reduction.

Bluetooth Menu: Open/Close Bluetooth function

Man Down: Open/Close Man Down function

One Touch Access:

Serial number x (x indicates 1~6)

Mode: Set the call mode digital/analog.

Call: Select a call subject from the available digital call types.

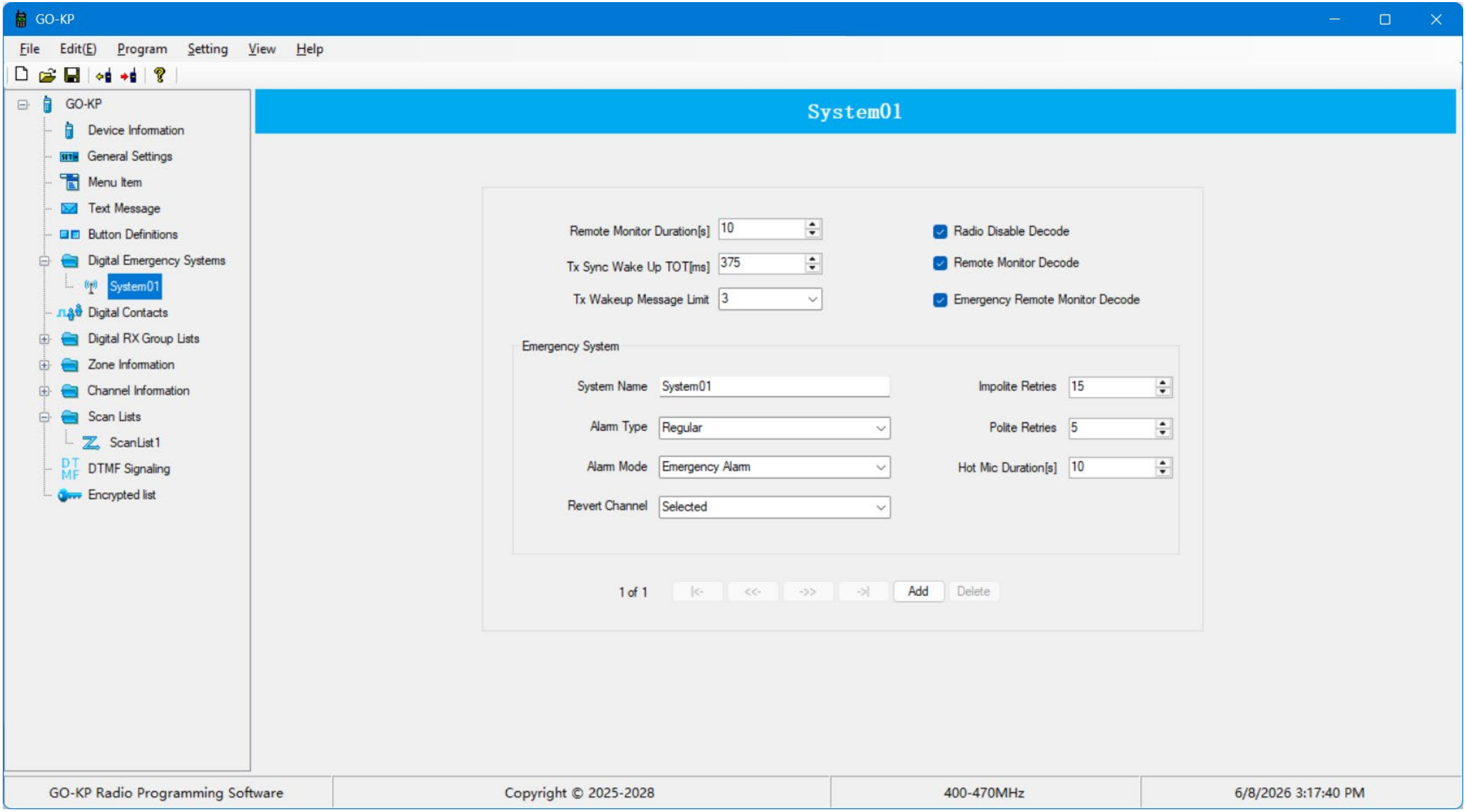
Call Type: Set the call type call/message

Message/Encode: Select the quick text message or the telegram of the simulated DTMF

Quick Contact Access with Number Key:

Used to set a long press the keyboard of the digital 0-9, can quickly correspond to the set of contacts to call the list.

⑥ Digital Emergency System



Remote Monitor Duration: The voice transmission duration from the monitored party when receiving the remote monitor signaling.

TX Sync Wakeup TOT: This feature is used for adjusting the initial value of the timer started when the repeater is wakened by the message. After the radio receives the synchronization signaling from the repeater, the timer will stop. If the timer becomes invalid before receiving the synchronization signaling from the repeater, the radio will send out another message to wake the repeater. The message quantity is decided by the TX wakeup message

limit, and if the limit is exceeded, the repeater will be considered to be out of the range of signaling coverage.

TX Wakeup Message Limit: This feature is used for setting the message quantity to wake the repeater. Set a bigger number to improve the success rate of waking the repeater.

Radio Disable Decode: Check to enable Radio Disable Decode.

Remote Monitor Decode: Check to enable Remote Monitor Decode.

Emergency System

System Name: Set the emergency system name. A maximum of 16 characters can be entered.

Alarm Type: Select the alarm type of the current digital alarm definition.

Alarm Mode: Select the current alarm mode of the current digital alarm definition.

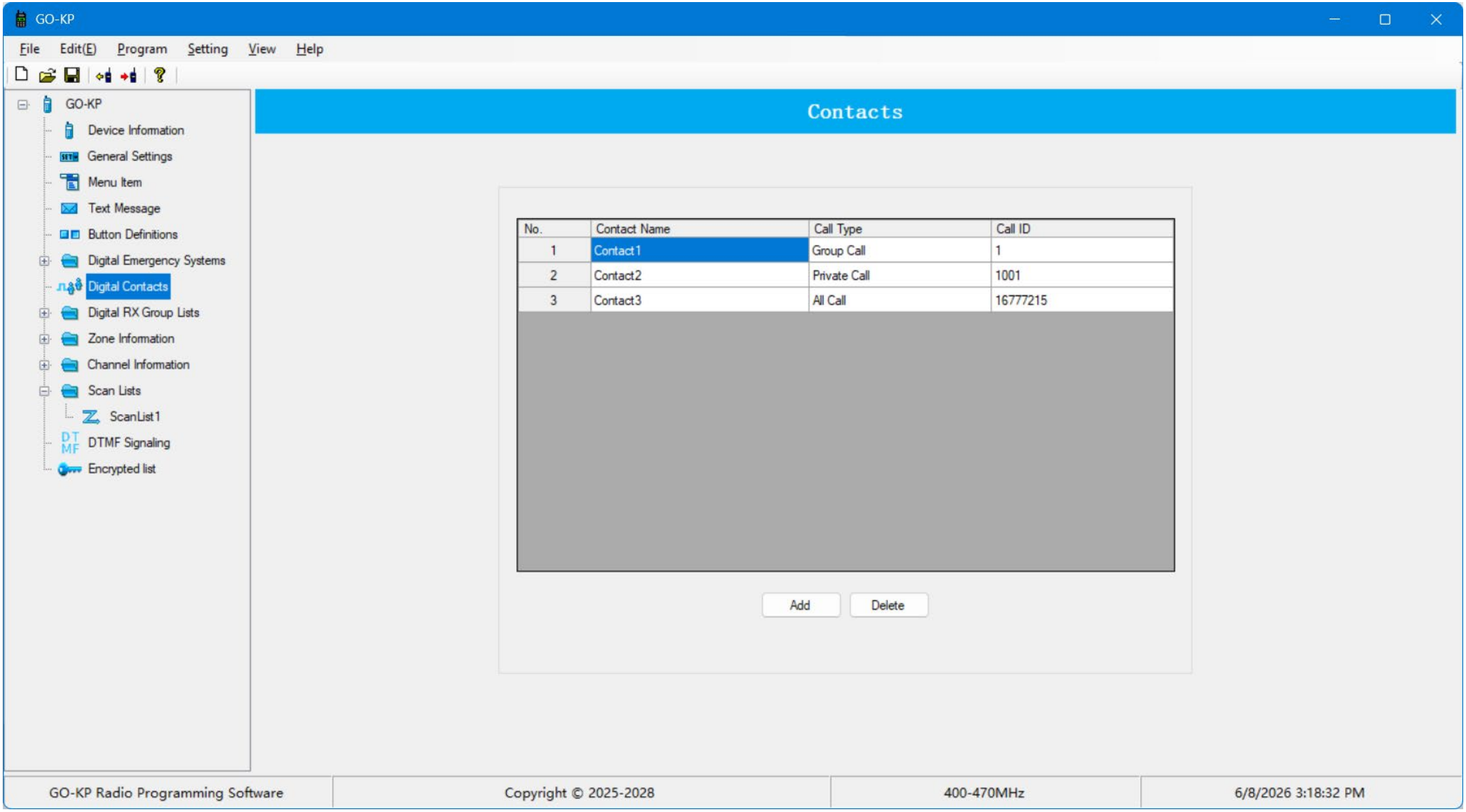
Revert Channel: Select the revert channel. If it is set as Selected, it will alarm on the initiated channel, otherwise, it will alarm on the designated channel.

Impolite Retries: Set the impolite retries of the current digital alarm definition.

Polite Retries: Set the polite retries of the current digital alarm definition.

Hot Mic Duration: Set the hot mic duration of the current digital alarm definition.

⑦ Digital Contacts

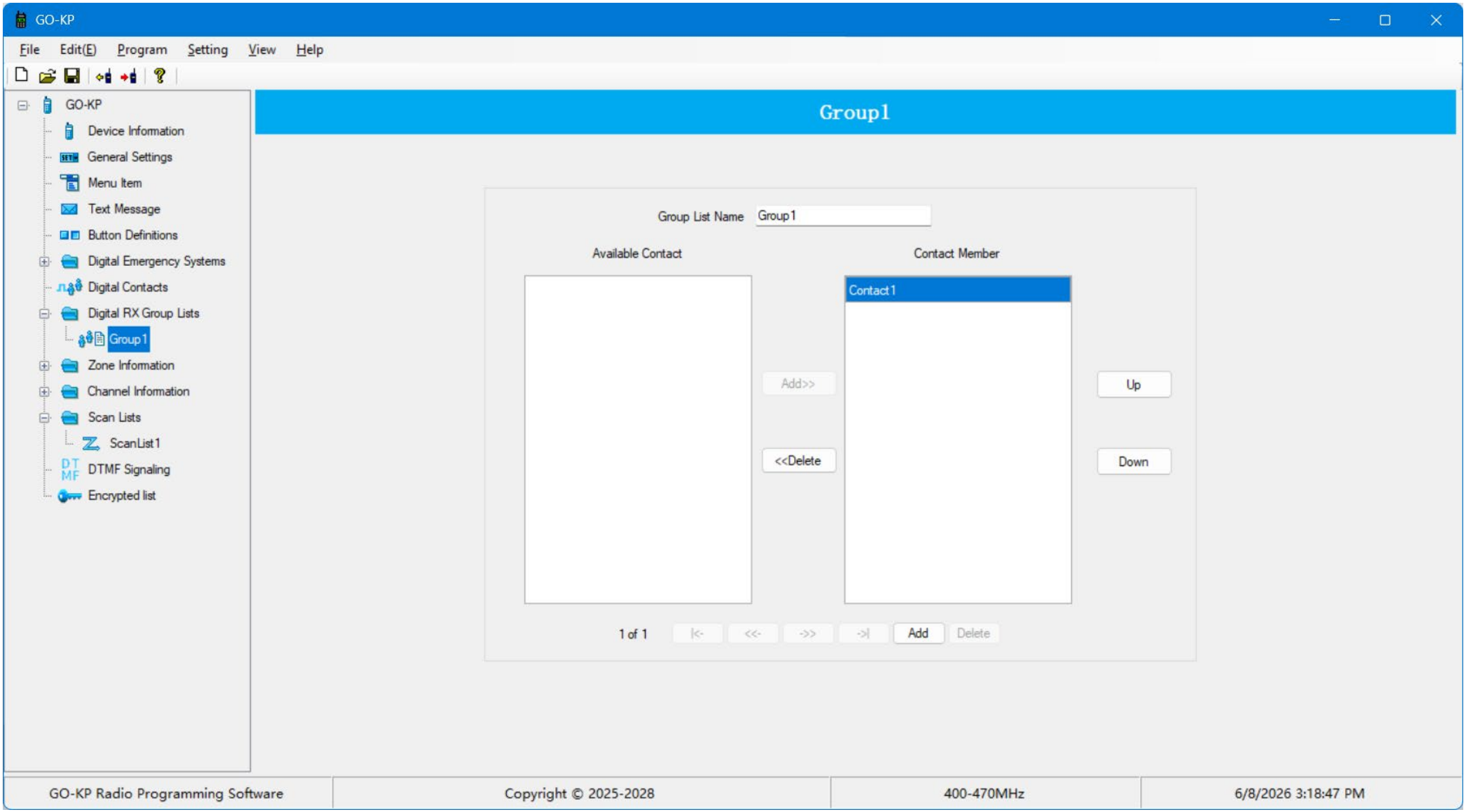


Contact Name: Set the name for the members in the list. Input range: 1-16 characters.

Call Type: Select the call type for the members in the list. Available options: Private Call; Group Call; All Call. Default value: Group Call. Description: only one All Call can be set for the entire call type.

Call ID: Set the ID number for the members in the list. Input range: 1-16776415. The default value is the number in each line of the list.

⑧ Digital RX Group Lists

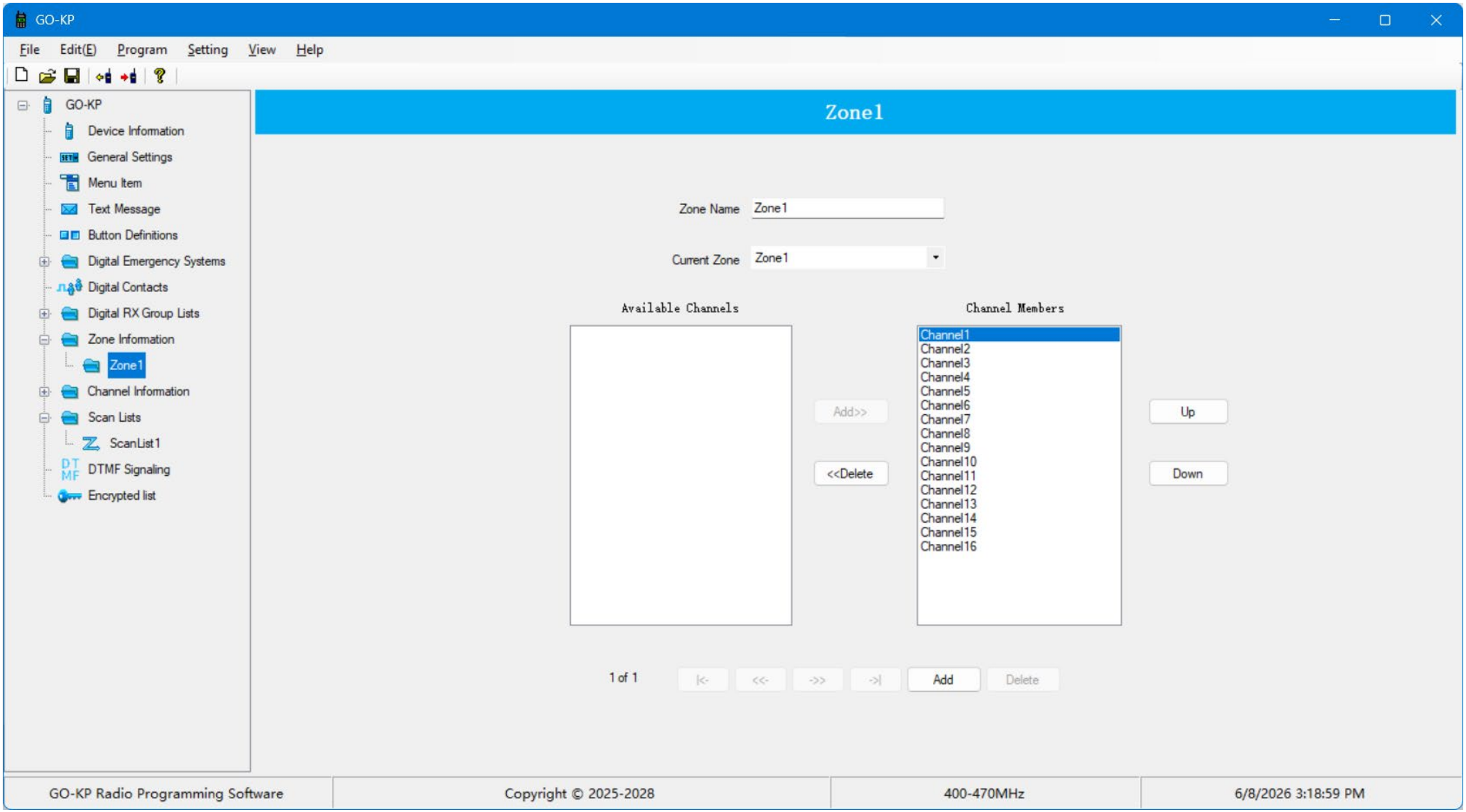


Group List Name: set the group list name. Range: 1 – 16 characters.

Add: add the selected group to the RX group list on the right. Description: only the items on the right list will be ultimately saved.

Delete: delete the selected group from the RX group list on the right. Description: only the items on the right list will be ultimately saved.

⑨ Zone Information



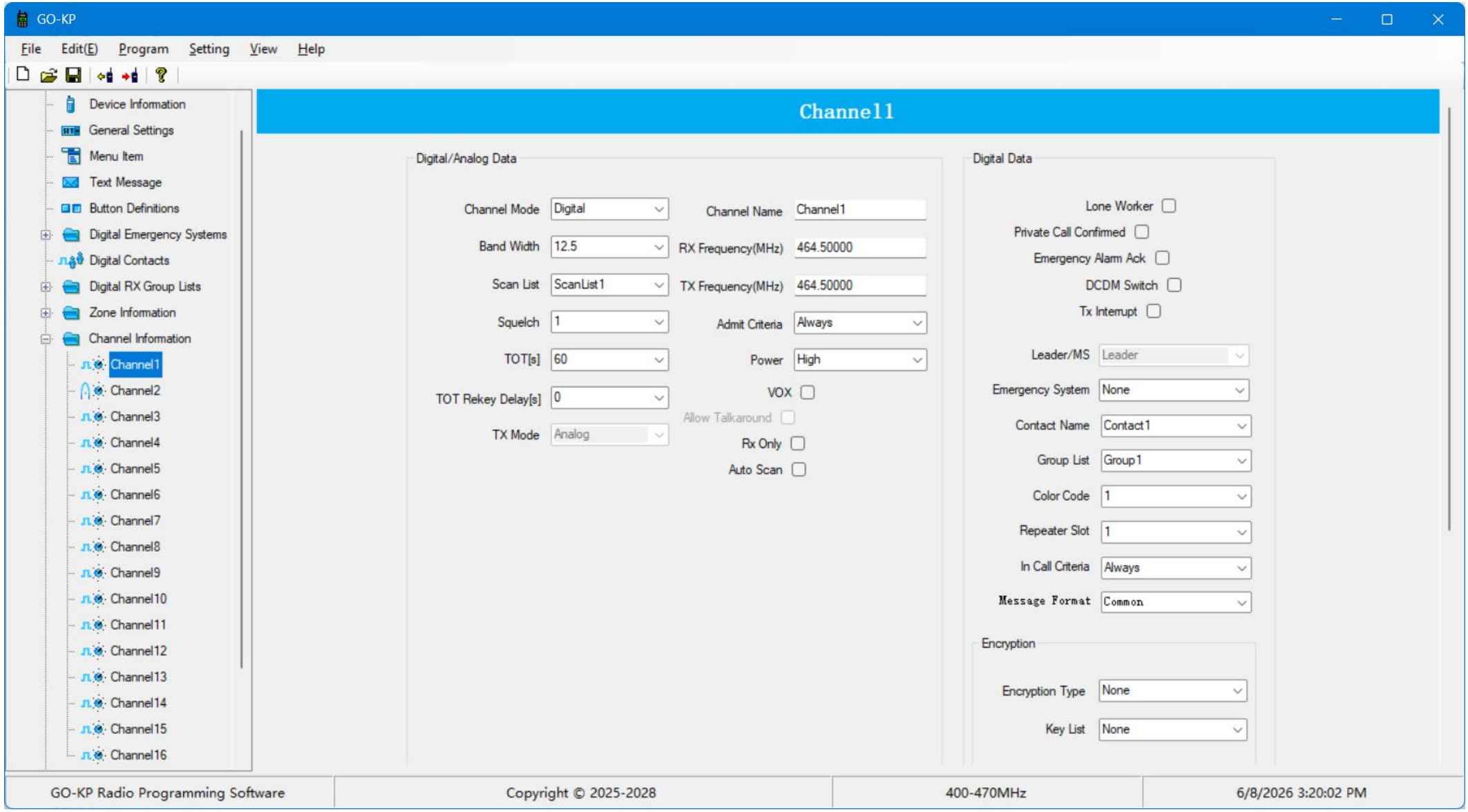
Zone Name: Set the zone name.

Zone Number: The user can select the zone number and add the different channel members.

Channel Number: Displays the existing channel in the current zone.

Channel Name: Displays an alias for the current channel.

⑩ Channel Information



CH No.: Select Channel Number.

Digital/Analog Data

Channel Mode: Set the work mode of the current channel, Digital or Analog or Mixed.

Band Width: You can select the TX/RX channel band width for the channel.

Scan List: Select the scan list for the current channel. The available options are decided by the scan options enabled on the scan interface. Default value: None.

Squelch: Set the squelch level of the current channel.

TOT[s]: The longest transmission allowed for one call. This feature can prevent the current channel from being occupied overlong by a single user.

TOT Rekey Delay[s]: Set the wait time before a second transmission after the timer is up.

TX Mode: This parameter is used to set the transmitting mode of the current channel.

Channel Name: Displays an alias for the current channel.

RX Frequency [MHz]: Set the RX frequency for the current channel.

TX Frequency [MHz]: Set the TX frequency for the current channel.

Admit Criteria: Admit Criteria limits the transmission when there are activities on the channel. Available options: Always – transmits directly when the PTT button is pressed no matter there are activities on the channel or not; Channel Free – the radio is able to transmit whenever the channel is free; Color Code: transmits when the channel is free or the color code is not matched. Correct CTCSS/DCS – transmits when the channel is free or CTCSS/DCS is matched. Default value: Always.

Power: You can set the TX power on the channel, High or Low.

VOX: This function is used to enable vox function of the selected channel.

Allow Talkaround: Enable/disable talkaround feature through programmable keys or menu on the current channel.

RX Only: No transmission is allowed and you can only receive on this channel. Description: check – transmission is forbidden on the current channel. Unchecked: you can both receive and transmit on the current channel.

Digital Data (Digital Channel only)

Lone Worker: Enable/disable Lone Worker on the current channel. Available only for digital channel.

Private Call Confirmed: This feature can choose whether to send a host to send a call to confirm a call request.

Emergency Alarm Ack: Enable/disable auto reply when receiving an emergency code. Description: check – replies automatically when receiving an emergency code; unchecked: no reply when receiving an emergency code.

DCDM Switch: In direct mode of transmission, supports two simultaneous transmissions, the same group must use the same time slot to ensure that the use of time slot 1 of the group will not interfere with the use of time slot 2.

TX Interrupt: Open/Close this function to interrupt the other party's transmission.

Leader/MS: Select only the radio as the channel timing leader. Leader: Configure the radio as the preferred timing leader MS: The radio can be a timing leader, but subject to a higher priority.

Emergency System: You can relate any defined digital alarm system to the channel.

Contact Name: Selects the default TX contact on the current channel.

Group List: It relates a RX group list to the current channel. When a group call which matches the RX group list is received, the radio will turn on the speaker and the user can respond or reply within the group call hang time.

Color Code: A system can be labeled by a color code. The same color code is required for the users in communication. The radio will not respond to any channel activity which does not match the pre-defined color code as it will identify it to be the communication with other system. For monitoring multiple systems (set different color codes on multiple channels), you can enable scan feature so the radio can monitor activities on multiple channels.

Repeater Slot: Select slot 1 or slot 2.

In Call Criteria: Limits the transmission when there are activities on the channel.

Message Format: You can select EVX or Common, select EVX can only communicate with EVX.

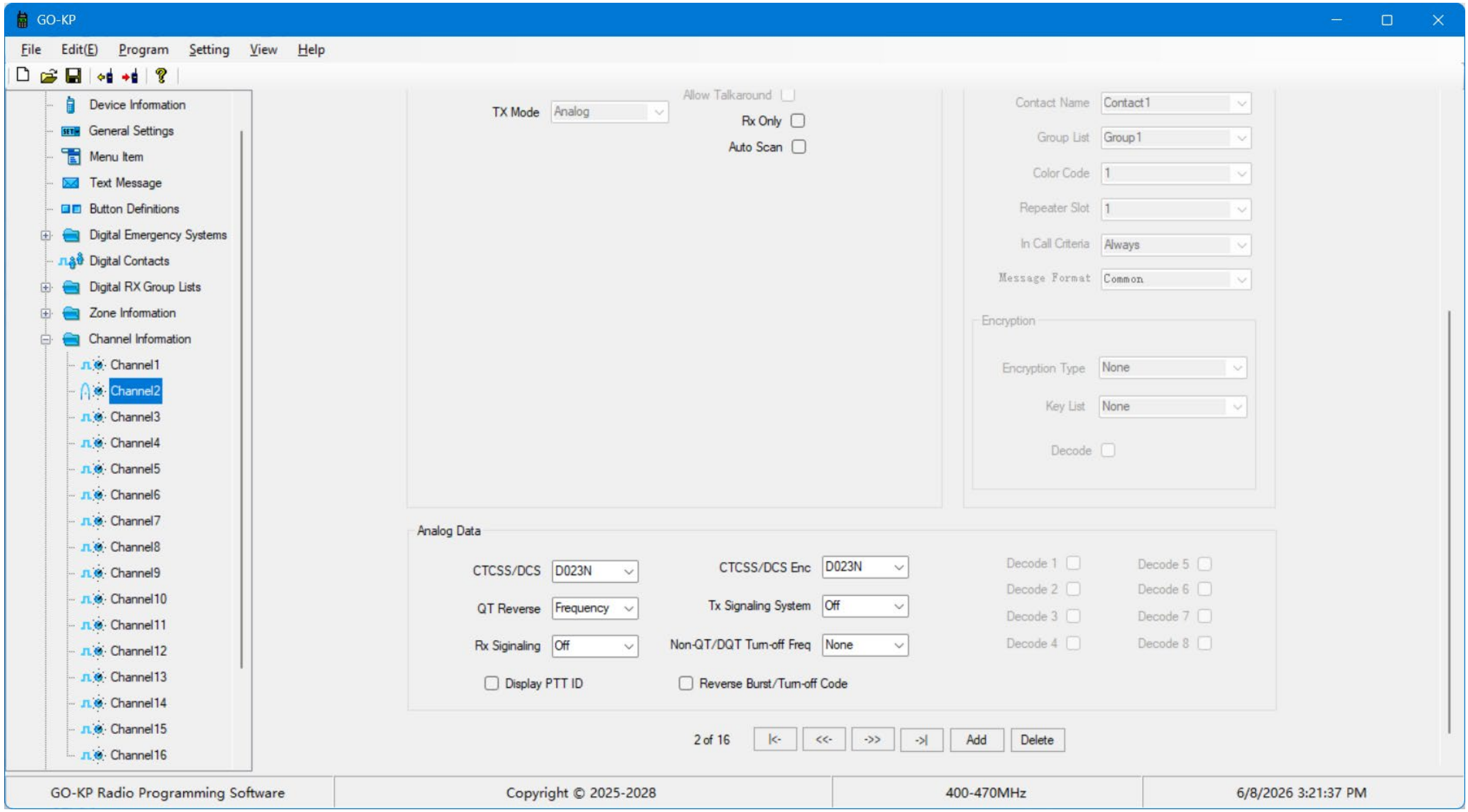
Encryption

Encryption Type: This feature allows encryption of the selected digital channel. Optional: None, ARC4, AES128, AES256.

Key List: Used to set the key value index for the current channel encryption type. The key value is used to encrypt and decrypt voice calls and data transmission on channels with encryption enabled when the encryption type is set to enhanced.

Decode: When this feature is enabled, the encryption key decryption function in all channels will no longer be displayed in gray, allowing users to enable fixed encryption key decryption function in the desired channel.

Analog Data



CTCSS/DCS Dec: Selects the frequency value or code word required for decoding CTC/DCS for the current channel.

CTCSS/DCS Enc: Selects the frequency value or code word required for encoding CTC/DCS for the current channel.

QT Reverse: Select QT Reverse on the current channel.

TX Signaling: Set the DTMF transmitting system used on the current channel. Available options: None; DTMF1; DTMF2; DTMF3; DTMF4.

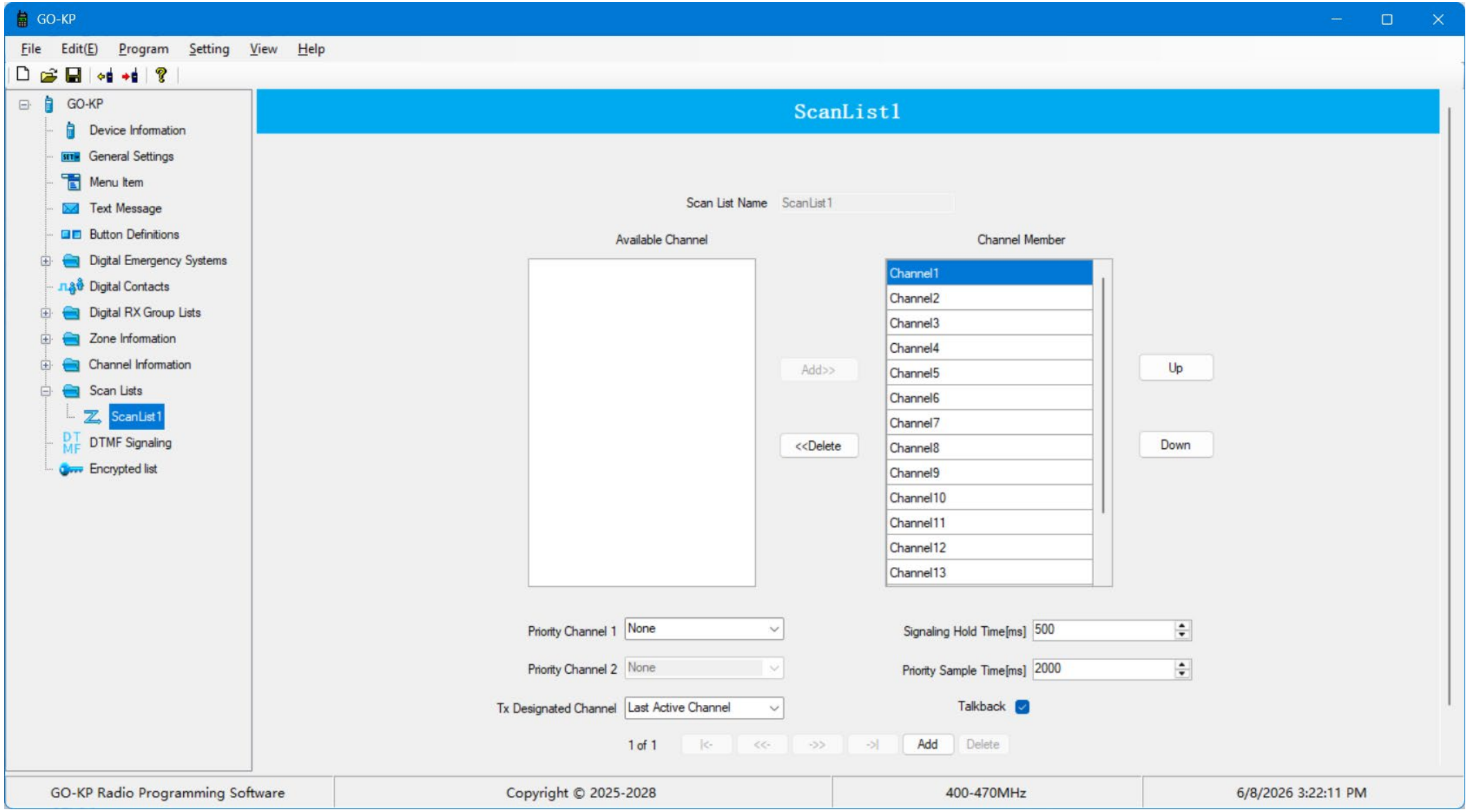
RX Signaling: Set the DTMF RX system used on the current channel. Options: None; DTMF1; DTMF2; DTMF3; DTMF4.

Non-QT/DQT Turn-off Freq: Select Non-QT/DQT Turn-off Freq on the current channel.

Decode 1- Decode 8: DTMF decoding template selection. There are 8 decoding templates. The status of these 8 check boxes is relevant to the decoding options. Multiple selection is available.

Display PTT ID: Enable/disable Display PTT ID.

⑪ Scan Lists



Scan List Name: Set a name for scan list. Input range: 0-16 characters.

Add: Add the items in the left list to the right list. Description: only the items in the right list will be saved at last.

Delete: Add the items from the right list. Description: only the items in the right list will be saved at last.

Priority Channel 1: If a channel is set as priority channel, the possibility of being scanned can be enhanced by around 50%; if two channels are set as priority channel, the possibility of them being scanned is 25% each.

Description: None - no priority channel 1 and all the channels will be scanned equally; Selected: Set the channel which enters scan mode as priority channel 1; Designated Channel: Select a channel in the scan list as priority channel 1. Default value: None. Description: Priority channel 1 cannot be set as the same channel as priority channel 2.

Priority Channel 2: You can select a channel as priority channel 2, and the possibility of it being scanned is around 25%.

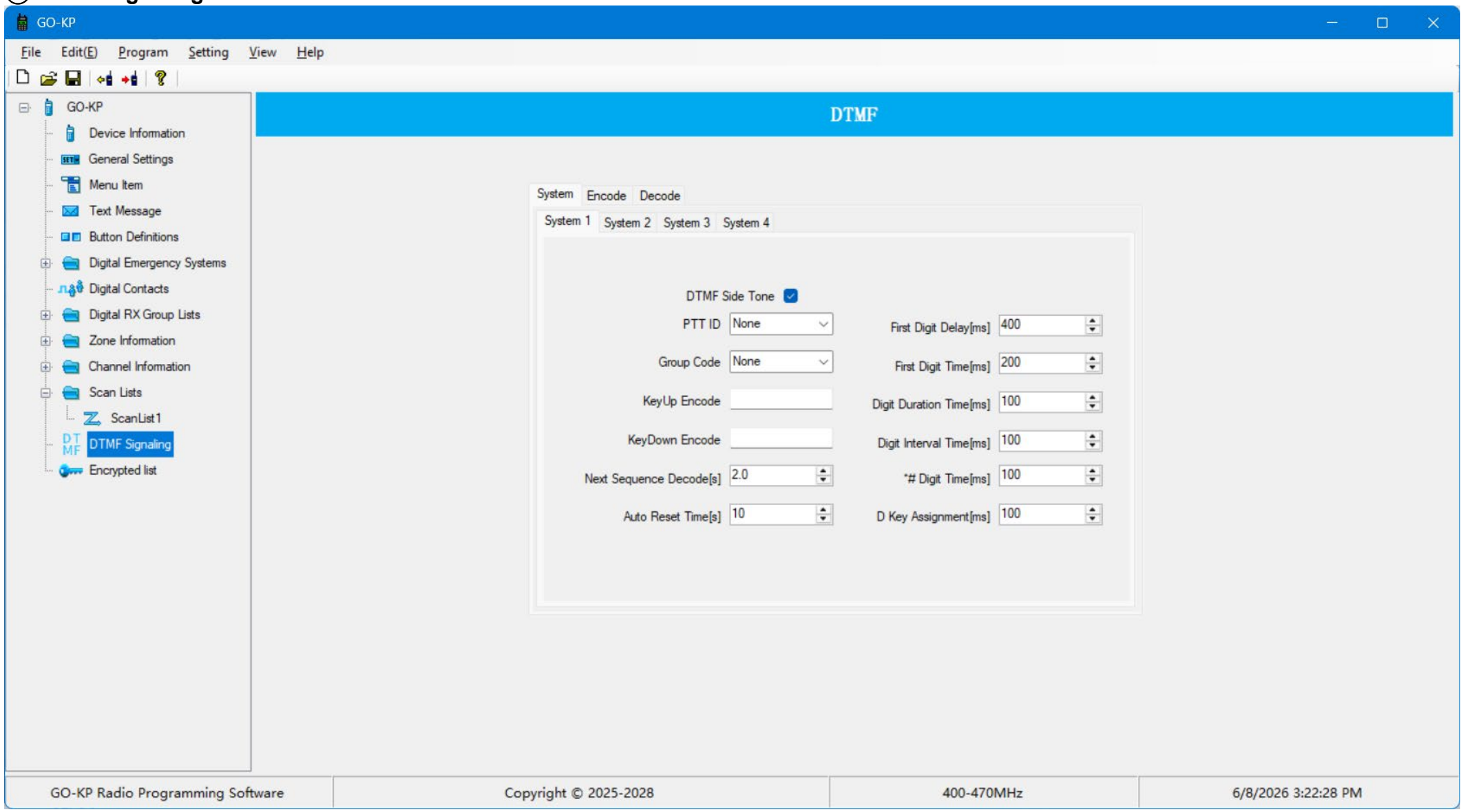
Description: None – no priority channel, Selected: Set the channel which enters scan mode as priority channel 2; Designated Channel: Select a channel in the scan list as priority channel 2. Default value: None. Description: Priority channel 1 cannot be set as the same channel as priority channel2.

TX Designated Channel: Select the type for revert channel. Available options: Selected; Designated Channel; Last Active Channel.

Signaling Hold Time: Set the stay time on the channel to detect the matched CTC/DCS after the carrier wave is scanned. The time should be longer than 500ms, and if it is shorter than 500ms, the channel with CTC/DCS will not be scanned.

Priority Sample Time: After the active channel is scanned, the radio will stay on this channel, and the radio will scan the channel with higher priority at every certain time interval. This interval is priority channel sweep time. The radio will switch to the priority channel where there are activities. Otherwise, the radio will keep staying on the original channel until timeout.

⑫ DTMF Signaling



System:

DTMF Side Tone: Enable/disable side tone when transmitting DTMF.

PTT ID: Select the PTT ID type of the current DTMF system.

Group Code: Select the group code of the current DTMF system and initiate a group call. Available options: None, A, B, C, D, *, #; Default value: None.

KeyUp Encode: Set the key up encode contents when PTT ID type is selected as “Pre Only” or “Pre & Post”. The contents which can be entered are: 0~9, A, B, C, D, * and #. A maximum of 30 characters can be entered.

KeyDown Encode: Set the key down encode contents. The contents which can be entered are: 0~9, A, B, C, D, * and #. A maximum of 30 characters can be entered.

Next Sequence Decode: Set the waiting time of the current DTMF system for receiving the next DTMF sequence.

Auto Reset Time: Set the auto reset time of the current DTMF system.

First Digit Delay: Set the waiting time of the current DTMF system for transmitting the first DTMF number.

First Digit Time: Select the time duration of the first digit of the first DTMF number transmitted by the current DTMF system.

Digit Duration Time: Set the time duration of sending single DTMF number by the current DTMF system.

Digit Interval Time: Set the time interval for sending DTMF number by the current DTMF system.

*# Digit Time: Set the time duration for sending * or # by the current DTMF system.

D Key Assignment: Set the method to transmit D key by the current DTMF system. If it is set as D, D key will be transmitted normally, but if it is set as time, only carrier wave will be transmitted.

Encode:

This interface is used for setting DTMF encode sequence. 1-32 groups of sequence can be set.

Decode:

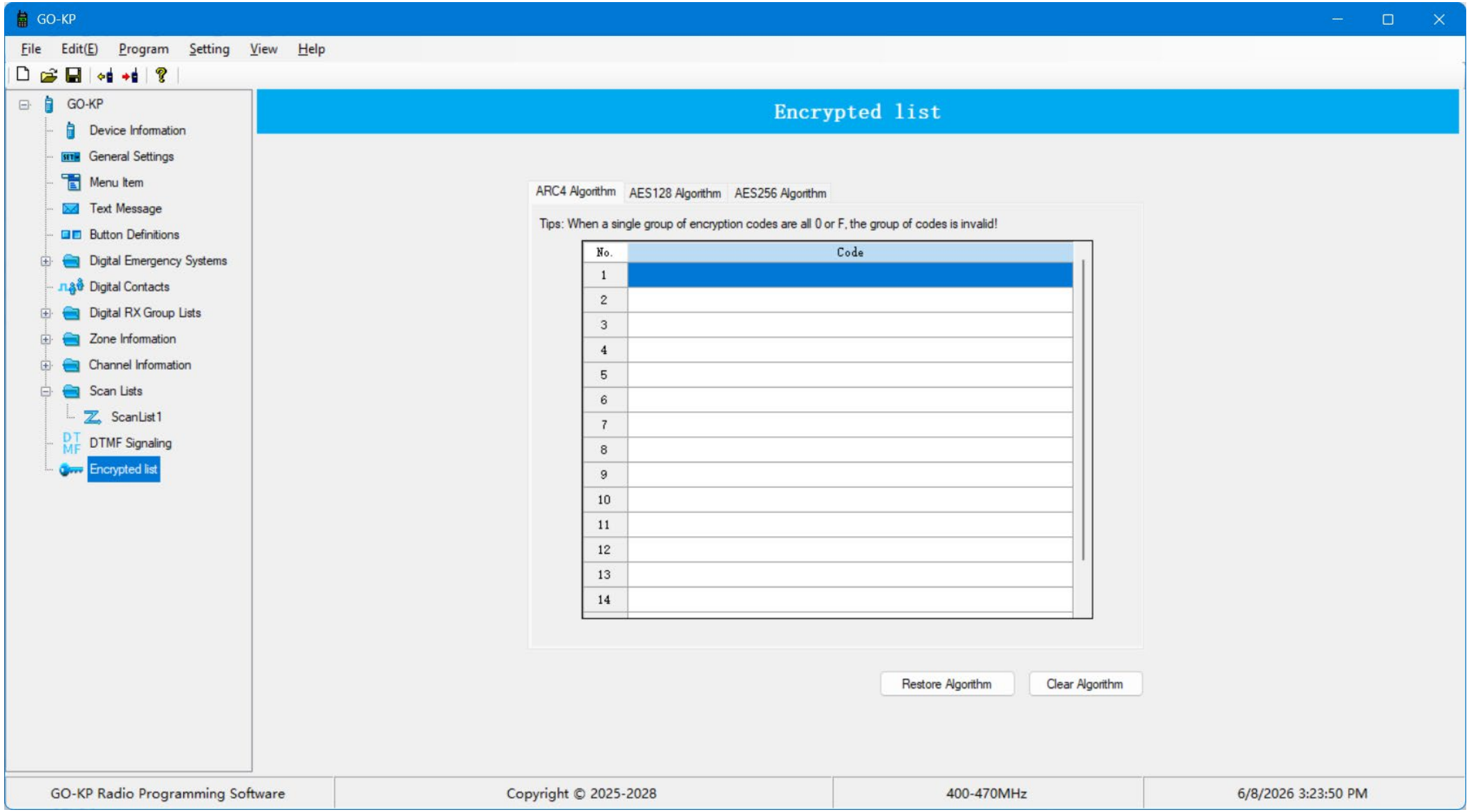
This interface is used for making relevant settings for DTMF encode.

Response Type: Select the response type for the current DTMF decode definition.

DTMF ID: Set the DTMF encode ID for the current encode template.

⑬ Encrypted list

This feature allows encryption of the selected digital channel.



ARC4 Algorithm：

This interface is used to set the encoding sequence of ARC4. Settable for 1-16 sets of sequences.

No.：Used to set the sequence number of the ARC4 algorithm, allowing for assigning key IDs to each key value.

Decode：Set the encrypted encoding content for each set of serial numbers. The content that can be inputted is: 0-9, A-F, with a maximum input of 14 bits, used for encrypted values for voice calls and data transmission on the channel.

AES128 Algorithm：

This interface is used to set the encoding sequence of AES128. Settable for 1-32 sets of sequences.

No.：Used to set the sequence number of the AES128 algorithm, allowing key IDs to be assigned to each key value.

Decode：Set the encrypted encoding content for each set of serial numbers. The content that can be inputted is: 0-9, A-F, with a maximum input of 32 bits, used for encrypted values for voice calls and data transmission on the channel.

AES256 Algorithm：

This interface is used to set the encoding sequence of AES256. Settable for 1-64 sets of sequences.

No：Used to set the sequence number of the AES256 algorithm, allowing key IDs to be assigned to each key value.

Decode：Set the encrypted encoding content for each set of serial numbers. The content that can be inputted is: 0-9, A-F, with a maximum input of 64 bits, used for encrypted values for voice calls and data transmission on the channel.