DJ-MD5
PC Software Guidance

Ver, 1.00
2018/08/16

Appendix

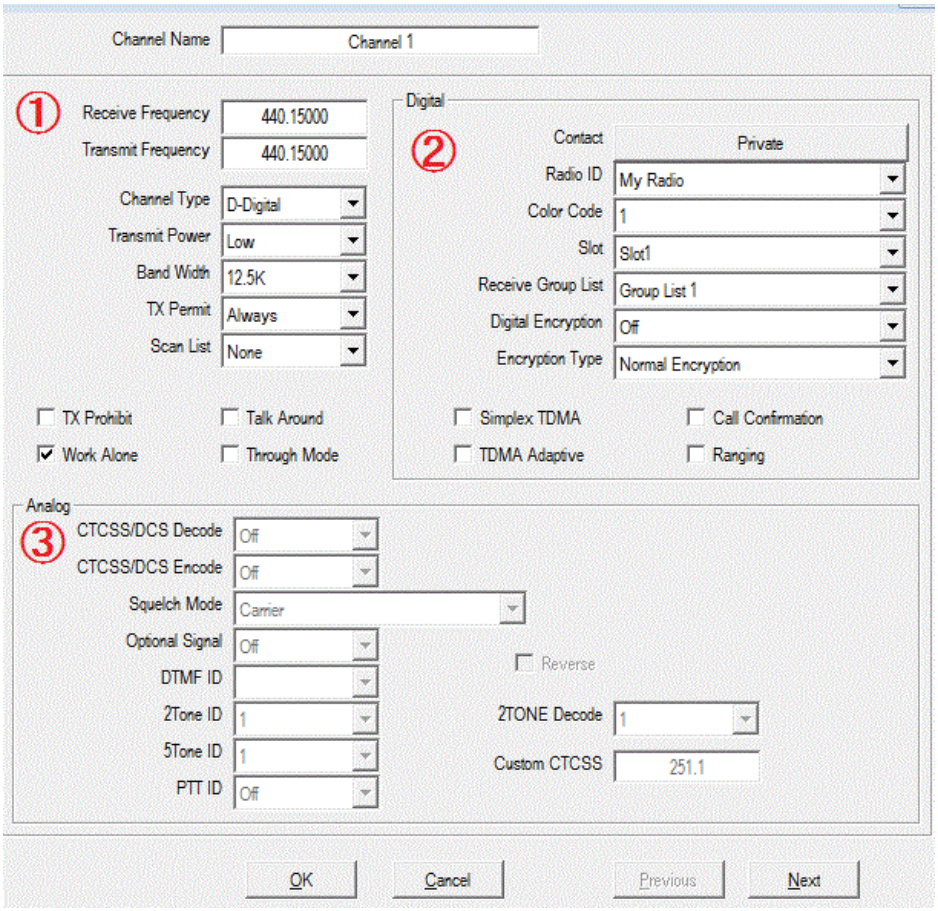
I Public

1. Channel

Click to Channel to add channels and input the desired frequencies.

No.	Receive Frequency	Transmit Frequency	Channel Type	Power	Band Width	TCSS/DC Decode	TCSS/DC Encode	Channel Name	Contact
1	440.00000	440.00000	D-Digital	High	12.5K	Off	Off	Channel 1	Contact 1
2	155.00000	155.00000	D-Digital	High	12.5K	Off	Off	Channel 2	Contact 1
3									

Click to each channel to open the below console.



① Frequency, call type, power

Receive frequency Input the desired receiving frequency of channel.
Transmit frequency Input the desired transmitting frequency of channel.
Channel type There are 4 types of channel model you can select. **A-Analog:** Set up to analog channel. **D- Digital:** Set up to digital channel.

A+D TX A: Mixed analog, allow receive analog and digital signal, TX is analog. **D+A TX D:** Mixed digital, allow receive analog and digital signal, TX is digital.
Transmit Power There are 4 modes of power you can select. **Small:** 0.2W **Low:** 1W **Mid:** 2.5W **High:** 5W
Band width **Analog channel** 25Khz : Wide band width 12.5Khz: Narrow band width **Digital Channel** 12.5Khz: Narrow band width only
TX Permit **Always:** Always permits transmit. **Channel free:** Allow transmit when the channel is free **Different color code:** Allow transmit when receive a matching carrier signal but different color code. **Same color code:** Allow transmit when receive a matching carrier signal and it has same color code.
Scan list Select the scan list for the current channel. To create the scan list go to Public➔ Scan list. To activate the scan, press the programmed key with scan function is assigned. Radio starts scan when the current channel is slected a scan list, it will scan the current channel and all the channels in the scan list.
TX prohibit Select to prohibit transmit on current channel.
Work alone Select the Work Alone for the current channel
Talk around Select the Work Alone for the current channel

② **Digital Channel Setting**

Contact There are 3 call typs you can set for a digital channel. **Private call:** A private user to a private user **Group call:** All member in a group **All call:** Any user who is using the same channel frequency
Radio ID Select the ID for radio from ID list. The ID list is created in: PC Software ➔Digital Radio ID List➔ Radio ID
Color code Select the color code. 2 radios with different color code could not communicate to each others. When set the radios and use repeater all the radios need to set color code same as repeater.
Slot Select the time slot, there are time slot 1 and time slot 2.

Receive group list Select the receive group list. Create the receive group list go to Digital ➔ Receive Group Call List.
Digital encryption Select the digital encryption for the call. There are 32 selectable encryption codes.
Encryption type Normal Encryption; Normal secure Enhanced Encryption: More secure
Simplex TDMA Select the Simplex TDMA for the current channel.
TDMA Adaptive Select the TDMA Adaptive for the current channel.
Call confirmation Select the call confirmation for the current channel.
Ranging Select the ranging for the current channel.

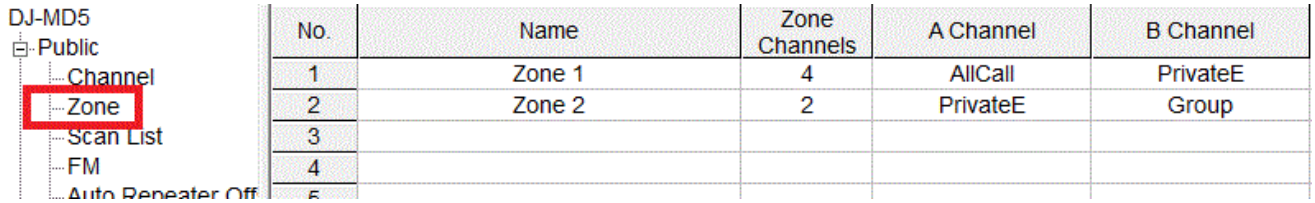
③ Analog Channel Setting

CTCSS/DCS Decode Select Off or CTCSS, DCS when receiving the signal to decode tone.
CTCSS/DCS Encode Select Off or CTCSS, DCS when transmitting the signal to encode tone.
Squelch Mode: Carrier: You can hear the call when the channel receives a matched carrier. CTCSS/DCS: You can hear the call when the channel receives a matched CTCSS/ DCS signal. **Optional Signal:** Select the optional as 5Tone, 2Tone, DTMF. **CTC/DCS& Optional Signal:** You can hear the call when the channel receives a matched CTCSS/ DCS and matched tone signaling. **CTC/DCS| Optional Signal:** You can hear the call when the channel receives a matched CTCSS/ DCS or matched a tone signaling.
Optional Signal: Off: No Optional signal is selected when transitting. If you select DTMF/ 2Tone/ 5Tone as an optional setting then need to go to Analog ➔ 5Tone Setting/ 2Tone Setting/ DTMF Setting.
DTMF ID Select DTFM ID
2Tone ID Select 2 Tone ID
5Tone ID Select 5 Tone ID
PTT ID Select each option: Off, Start, End, or Start&End
Reverse Select to reverse the TX and RX frequency, when this is selected the CTCSS/DCS also are interchanged.

Custom CTCSS Enter value when requiring a custom CTCSS tone

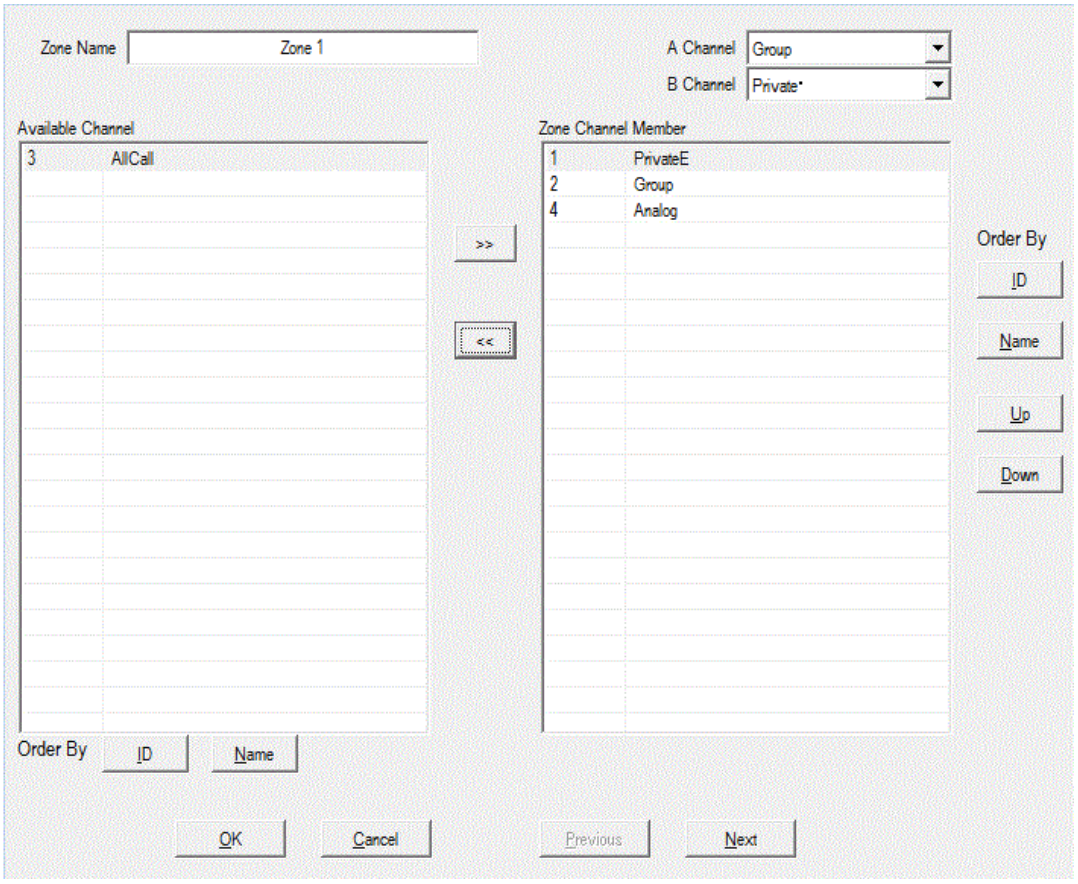
2. Zone

Create the zone of channels. After programing into radio, select the desired zone and then select the channel you want to use.



Name Shows the name of zones
Zone Channels Shows the channels are selected in the zone
A channel The channel will be shown on the display of A channel when select a corresponded zone
B Channel The channel will be shown on the display of B channel when select a corresponded zone

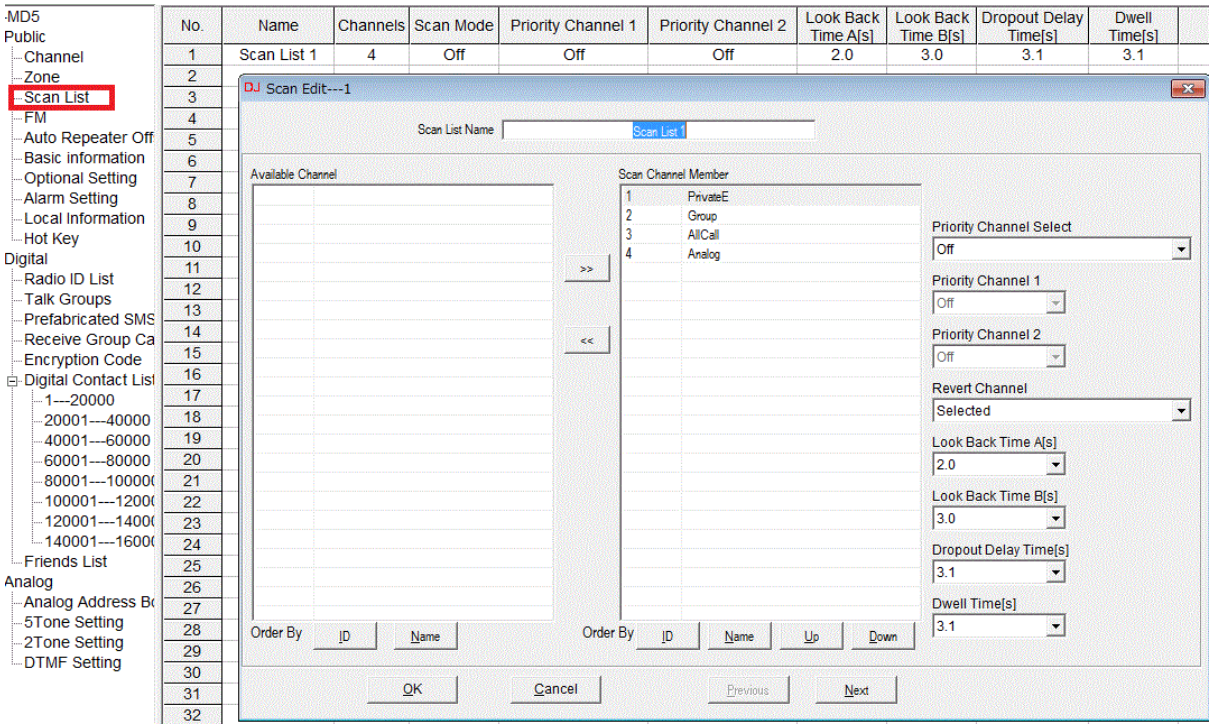
Click to each zone to see the details setting.



Available Channel Show the channels are created in the channel list
Zone Channel Member Show the channels will be displayed in radio when you select a corresponded zone
A Channel Select the channels will be shown on the display of A channel when select a corresponded zone
B Channel Select the channels will be shown on the display of B channel when select a corresponded zone

3. Scan List

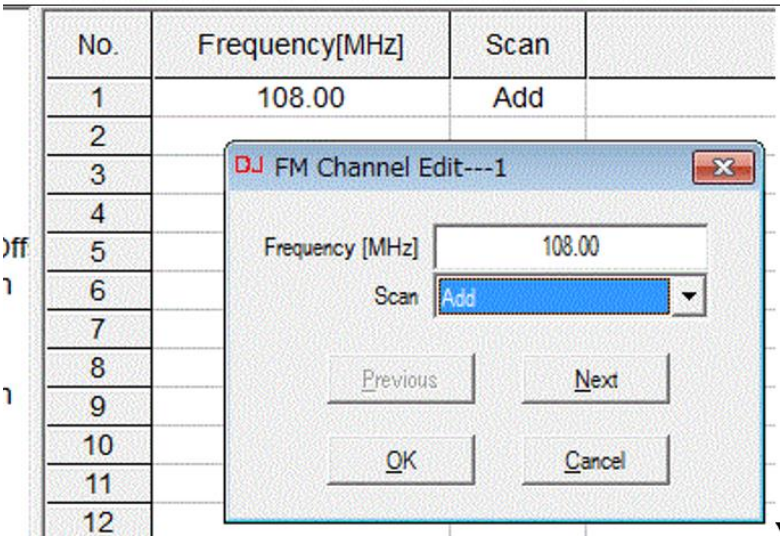
Select the desired channels to the scan list.



Available Channel Show the channels in the channels list
Scan Channel Member Select the desired channel to the scan list
Priority Channel Select Select off or the priority type to the channel. One you selected a priority type go to Priority Channel 1 or Priority Channel 2 to select the desired channel
Priority Channel 1 This option allows users to select a channel in the scan list as Priority Channel 1. If only Priority Channel 1 is set, 50% of a radio's scans are on Priority Channel 1 during scanning. If Priority Channel 2 is set to Off, scans for Priority Channel 1 is reduced from 50% to 25%. **Off:** No channel is set as Priority Channel 1. If Priority Channel 2 is available, scans for Priority Channel 2 increased to 50%.
Priority Channel 2 This option allows users to select a channel as Priority Channel 2. During scanning, 25% of a radio's scans are on Priority Channel 2 if user has defined also a Priority Channel 1. But if Priority Channel 1 is set to Off, scans for Priority Channel 2 will be increased to 50%.
Revert Channel During scanning, when there is no call received, press the PTT key to transmit on the channel as below. - Selected - Selected + TalkBack - Priority Channel Select 1 - Last Called - Last Used - Priority Channel Select 1 + TalkBack

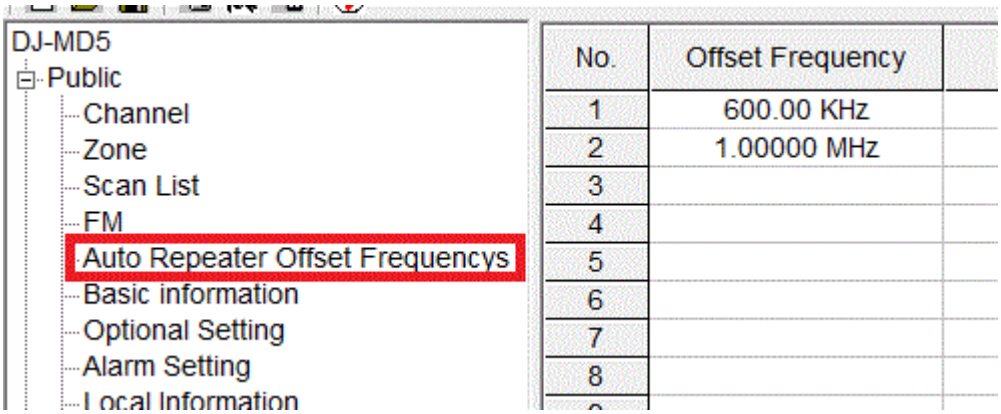
Look Back Time A [S] During scanning, it will scan the priority channel when check the look back time A every time.
Look Back Time B [S] Only for analog channel. During scanning, when the priority channel has signal but with incorrect CTCSS/DCS, it will scan the priority channel when check the look back time B every time.
Dropout Delay Time [S] **0.1S – 5S** Only for analog use. When scanning with a signal and starting a transmit, after release the PTT key, the radio will resume scanning after reaching the Dropout Delay Time.
Dwell Time [s] Only for analog use. When press PTT key to transmit, after release the PTT key, the radio will resume scanning after reaching the Dwell Time.

4. FM



Frequency [MHz] The frequency in range of : 76 Mhz -108MHz Create the desired channel frequencies for the FM radio.
Scan **Add:** Select the channel frequency to the FM scan channel list **Del:** Eliminate the channel frequency to the FM scan channel list

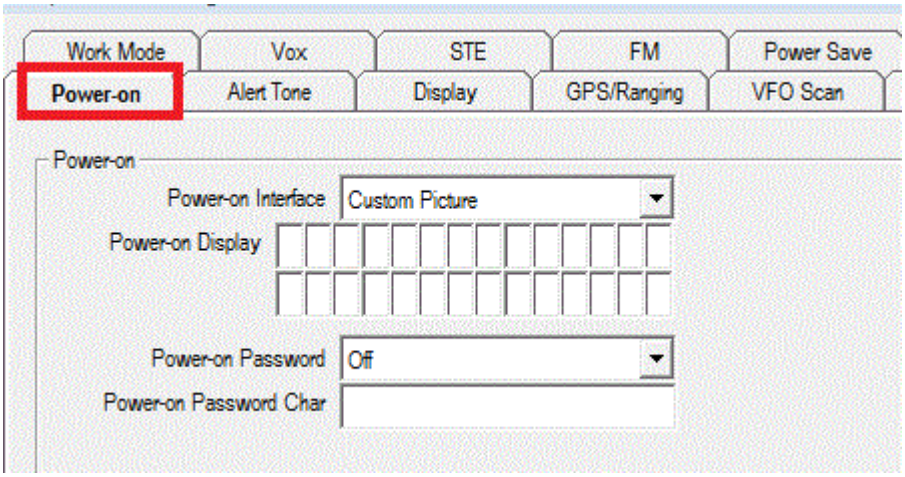
5. Auto Repeater Offset Frequencies



When turning on the Auto Repeater function, the TX frequency in VFO mode will be increased or decreased frequency on the channel A or channel B base on the set up offset frequency.
Here to create the desired offset frequency values. To setting the Auto Repeater function go to Public➔Optional Setting➔Auto Repeater.

6. Optional setting

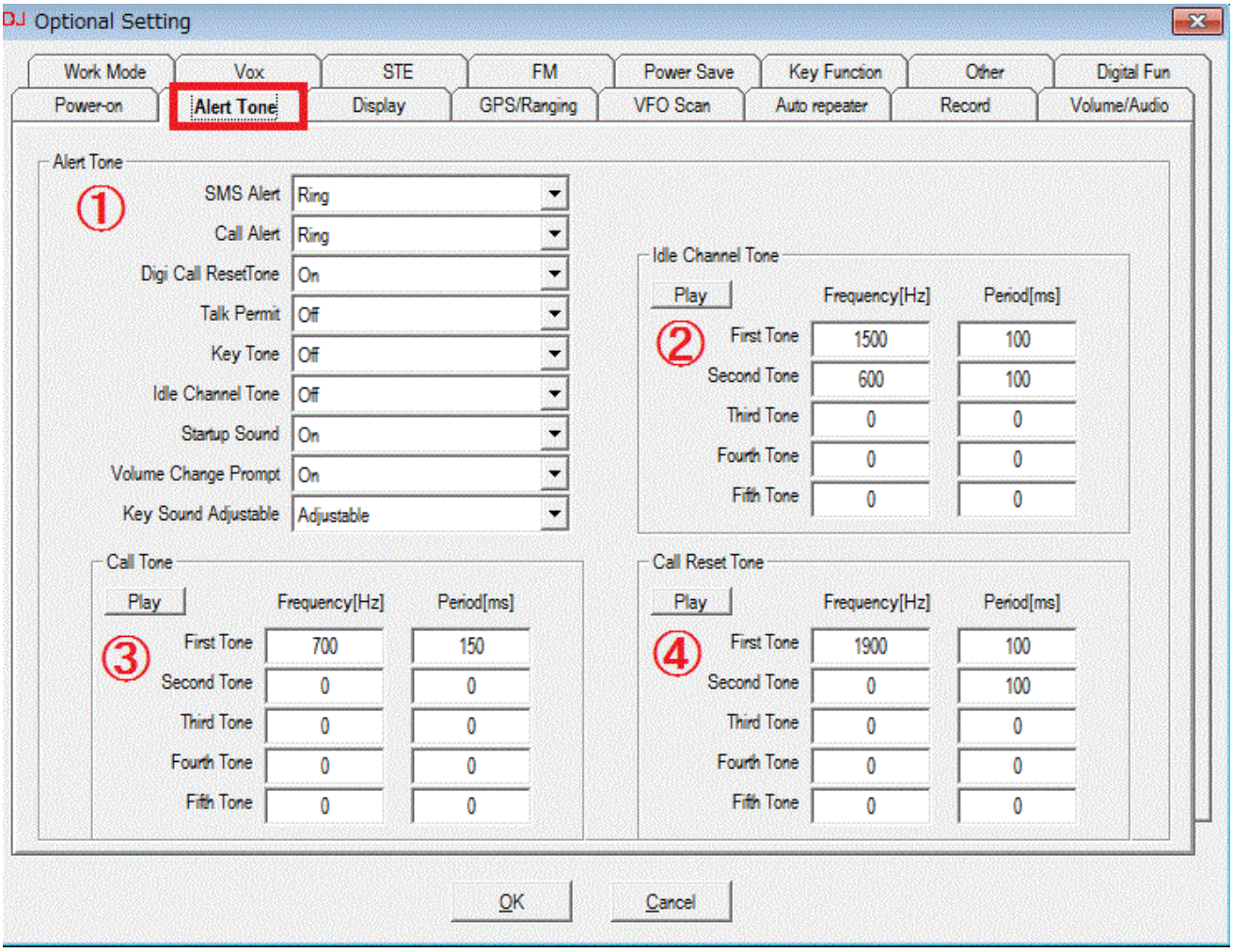
6.1 Power on



Power On Interface
Custom Interface: User able to change to desired picture.
Custom Char: The radio will display the characters set up in PC software when powered on.
Custom Picture: The radio will display an ALINCO picture when powered on

Power On Password
On: Set up the password for start up. You need to input the password to power on the radio.
Note. In Case you forgot the password. Using the PC software to read data and it is able to check password on PC software interface.
Off: No password is required for the radio power on start up

6.2 Alert Tone



①

SMS Alert **None:** Radio will not notify when receives a new message **Ring:** Radio will notify when receives new message
Call Alert **None:** Radio will not notify when receives a call alert **Ring:** Radio will notify when receives a call alert
Digi Call Reset Tone **Off:** Radio will not sound beep when the hold time terminates. **On:** Digital call has a group call hold time and a private call hold time to prevents voice missing after the call. When set Digi Call Reset Tone is on, it will sound beep when the hold time terminates.
Talk Permit Select Off or Digital or Analog or Digital& Analog

Key Tone **Off**: When pressing keypad radio silences **On:** When pressing kypad radio sounds tone
Start Up Sound **Off:** When powering on, radio silences **On:** When powering on, radio sounds tone
Volume Channel Prompt **Off:** When dialing the volume knob to change volume level there is no volume bar is shown. **On:** Radio shows a volume bar on the screen when dialing the volume knob to change volume level.
Key Sound Adjustable Adjustable 1 – 15 level for the keypad sound

②

Idle Channel Tone Select Off or On if the channel is idle radio sounds a tone.

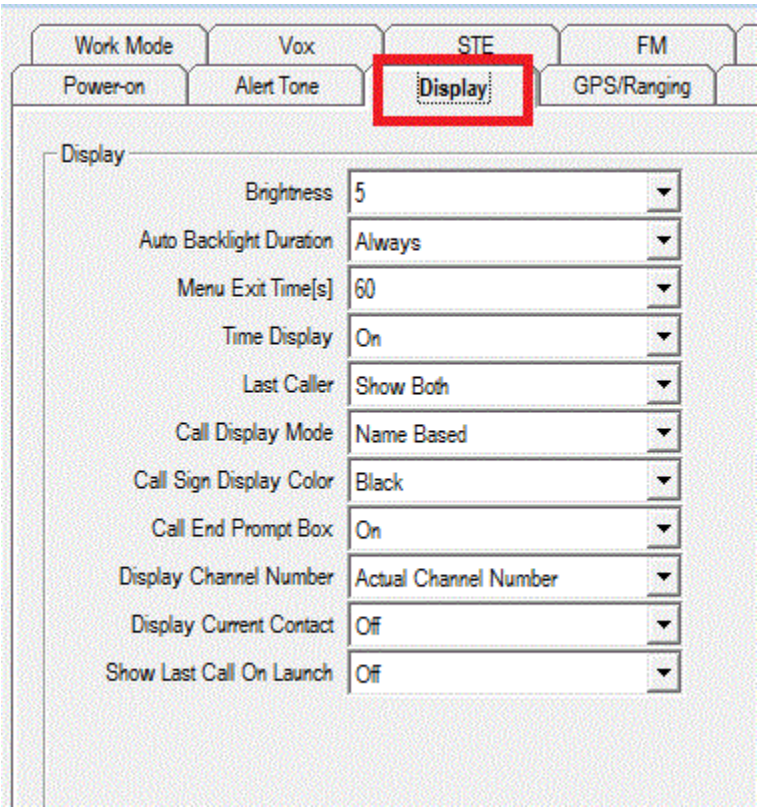
③

Call Tone Select if you want a tone confirming Digital and/or Analog repeater connection at the start of a call. It allows you to program the tone frequency as well as the duration of tones. Click “Play” to hear the tone sound.

④

Call reset tone It allows you to program the tone frequency as well as the duration of tones. Click “Play” to hear the tone sound.

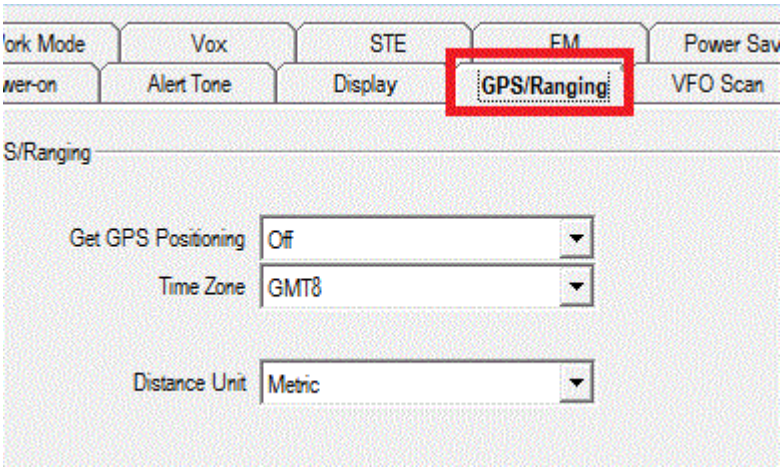
6.3 Display



Brightness Level 1-5: Set the display brightness level.
Auto Backlight Duration Always: Set the backlight always on 5S – 5 Min: Set the time for backlight on
Menu Exit Time 5S-60S: Set the duration time to exit from menu setting
Time Display Select Off or On to show date, time information in the display
Last Caller **Off:** Nothing be shown **Display ID:** Displays the ID of the last caller **Display CallSign:** Displays the Call Sign of the last caller **Show Both:** Displays both ID and Call Sign of the last caller
Call Display Mode **Name Based:** Select Name as primary display **Call Sign Base:** Select Call Sign as primary display
Call Sign Display Color Select Red or White color to display the call sign for a call
Call End Prompt Box **Off:** No notification box displays when the call end. **On:** Displays a notification box indicating the call is end. For example when a private call end radio shows a notification box with content **"Private Call End"**

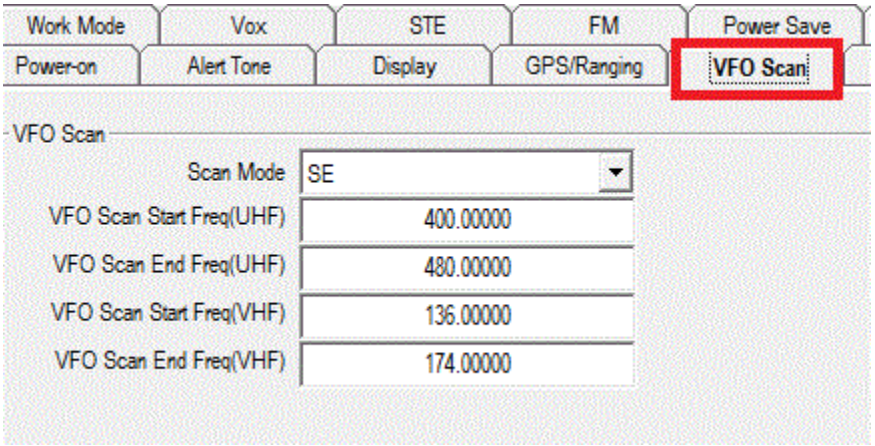
Display Channel Number Actual Channel Number: Sequence Number In Zone:
Display Current Contact Select Off or On for rotating display of all data on LCD
Show Last Call On Launch Select Off or On to show last call on channel change

6.4 GPS/Ranging



Get GPS Positioning: Select to get GPS position Time Zone: Select your time zone Distance Unit

6.5 VFO Scan

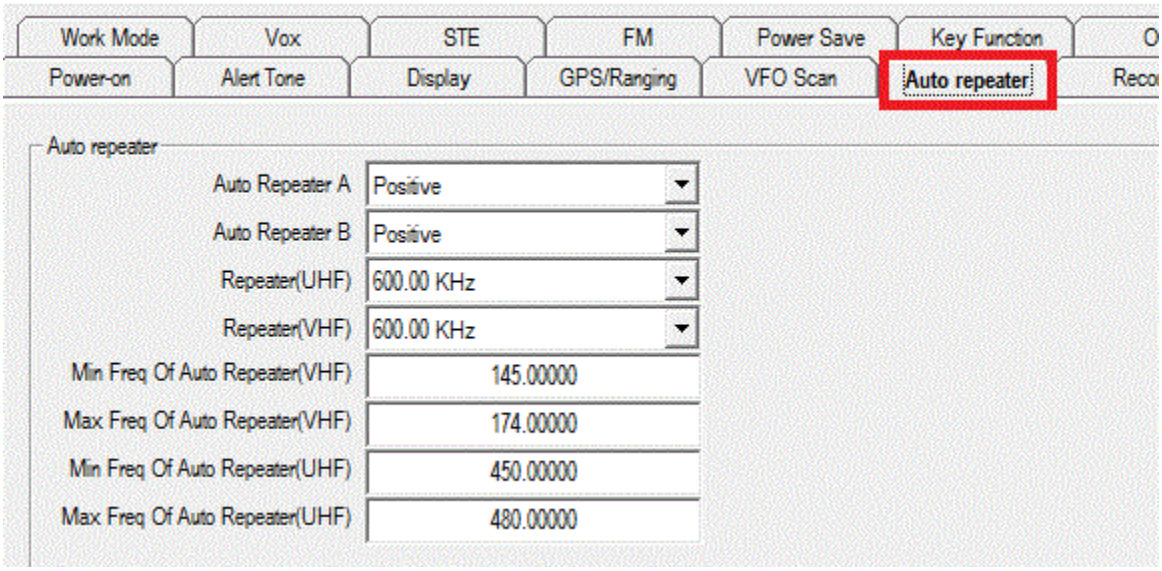


There are 3 types of scan for VFO scan mode: **TO:** When an incoming signal is catched, radio stops scan and stays at the channel 5s before resuming the scan. **CO:** When an incoming signal is catched, radio stops scan and stays at the channel until the signal disappears, and resumes scan approx 2s later.

SE: When an incoming signal is catched, radio terminates the scan.

Set the desired scan frequency in a range of start and stop in each UHF and VHF band.

6.6 Auto Repeater



Auto Repeater A
Turn on the Auto Repeater function, the TX frequency in VFO mode will be increased or decreased frequency on the channel A base on the set up offset frequency.
Off: Turn off the function
Positive: TX frequency= RX frequency + Offset frequency.
Negative: TX frequency= RX frequency - Offset frequency.

Auto Repeater B
Turn on the Auto Repeater function, the TX frequency in VFO mode will be increased or decreased frequency on the channel B base on the set up offset frequency.
Off: Turn off the function
Positive: TX frequency= RX frequency + Offset frequency.
Negative: TX frequency= RX frequency - Offset frequency.

Repeater (VHF)
Select the offset frequency for the channel A when auto repeater A is on. To create the frequency offset go to Public ➔ Auto Repeater Offset Frequency

Repeater (UHF)
Select the offset frequency for the channel B when auto repeater B is on. To create the frequency offset go to Public ➔ Auto Repeater Offset Frequency

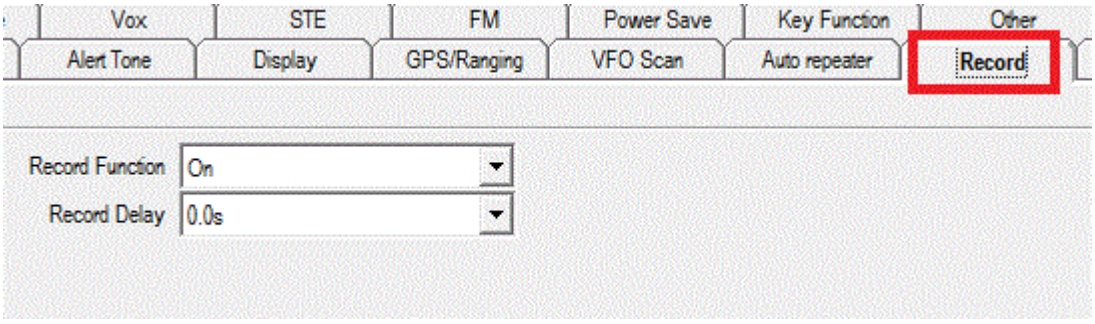
Min/ Max Freq Of Auto Repeater (VHF)
When auto repeater is turned On.
Set the auto repeater working frequency range, which maximum of range is 136 MHz to 174 MHz. Radio will automatically add the offset frequency value to the VFO frequency if it is

covered in the setting range. The offset frequency is based on the setting of Auto Repeater A as above.

Ex: If the range is set as: 136MHz - 140MHz, and offset value set as Possitive 0.6MHz, and VFO TX frequency is 137 MHz then when auto repeater is on, if you press and hold PTT, radio will transmit with TX frequency is 137.6MHz. In case of the VFO TX frequency is set as 145 MHz it is out of range you set then the offset frequency will not be applied when transmit.

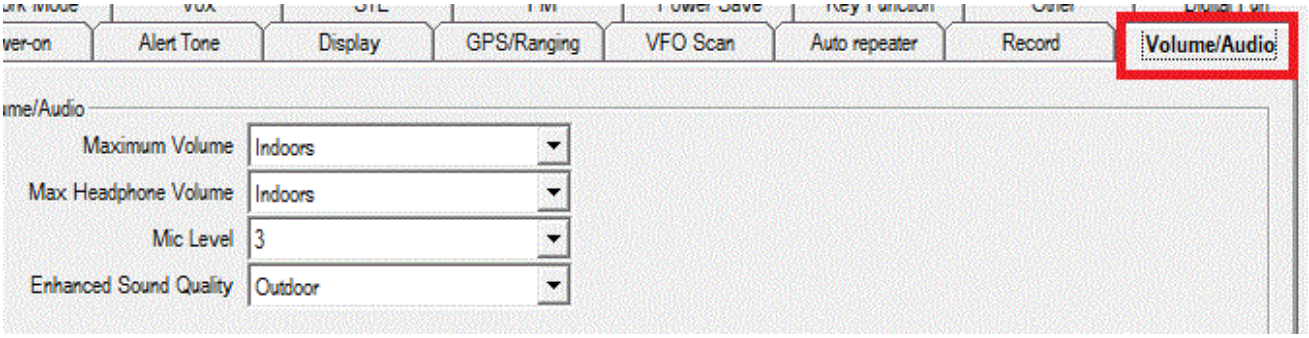
Min/ Max Freq Of Auto Repeater (UHF)
When auto repeater is turned On.
Set the auto repeater working frequency range, which maximum of range is 400 MHz to 480 MHz. Radio will automatically add the offset frequency value to the VFO frequency if it is covered in the setting range. The offset frequency is based on the setting of Auto Repeater B as above.

6.7 Record



Set radio to records a Call Conversation
This feature will record the call conversation during transmitting and receiving a signal automatically.
Record Delay: Set the delay time before radio starts to record a call conversation.

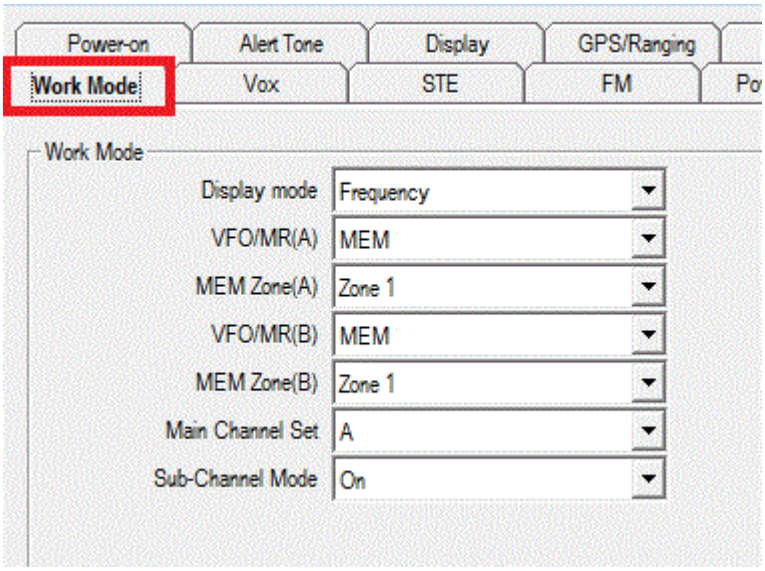
6.8 Volume/Audio



Maximum Volume
Set the volume level for speaker.
Indoors: Very low volume, suitable for the indoor use.

Level 1 – Level 8: There are 8 levels are selectable, and highest is level 8
Max Headphone Volume Set the volume level for external earphone. **Indoors:** Very low volume, suitable for the indoor use. **Level 1 – Level 8:** There are 8 levels are selectable, and highest is level 8
Mic Level Set the the volume level for microphone. Level 1 – Level 5: There are 5 levels are selectable, and highest is level 5
Enhanced Sound Quality These options are useful for reducing noise from microphone when radio transmits. **Normal: Normal microphone operation** **MIC Enhancement:** Enhances voice quality by noise reducing. **Indoor:** Very low volume, suitable for the indoor use. **Outdoor:** High volume, suitable for the outdoor use.

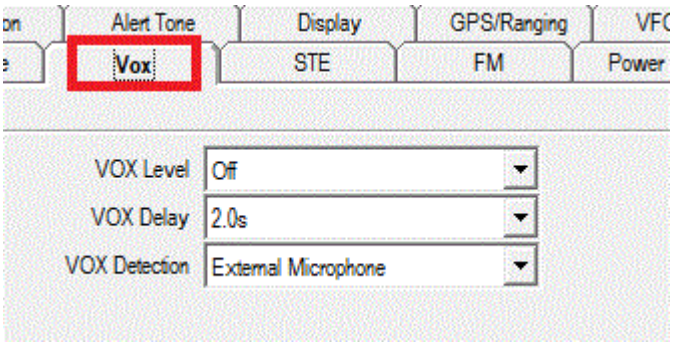
6.9 Work Mode



Display mode When radio works in the memory channel mode. Normally there are 2 ways to shows a channel on the screen, shows as channel name and show as frequency. **Channel:** Select to display the channel name on screen. **Frequency:** Select to display the frequency of channel on screen.
VFO/MR (A) Switch between VFO and memory channel mode display. Be noted that VFO only can be switched when radio display mode is set as frequency.
MEM Zone (A) Select zone from zone list to display channel A on the screen when radio is set as memory channel mode. To create the zone list go to Public→Zone.

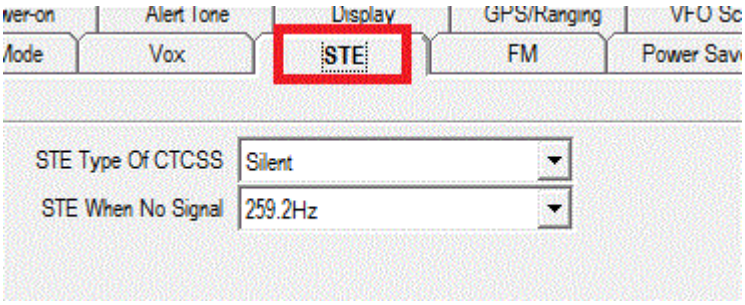
VFO/MR (B) Switch between VFO and memory channel mode display. Be noted that VFO only can be switched when radio display mode is set as frequency.
MEM Zone (B) Select zone from zone list to display channel B on the screen when radio is set as memory channel mode. To create the zone list go to Public→Zone.
Main Channel Set Set the channel A or channel B as the main channel to display on the screen. (Main channel is the channel is shown with bigger size)
Sub Channel Mode Set to display or hide the Sub-Channel on the screen

6.10 Vox



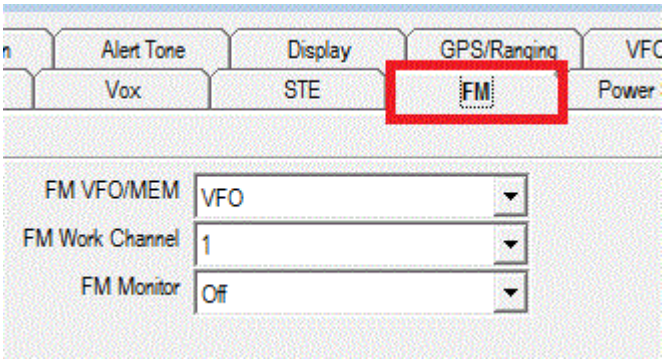
VOX Level Off: Turn off the VOX function **Level 1 – 3:** Select the sensitivity levels to activate the microphone with level 1 is lowest and level 3 is highest sensitivity.
VOX Delay **0.5S – 3S:** Set the delay time before the VOX be starts to work.
VOX Detection **Built-in Microphone:** Select VOX works only with internal microphone of radio. **Extenal Microphone:** Select VOX works only with external optional microphone. **Both:** Select VOX works with both internal microphone and external microphone.

6.11 STE



STE Type Of CTCSS (Squelch Tail Eliminate for simplex radio to radio only) Select Off, Silent or a selected tone phase shift.
STE When No Signal Select Off or 55.2 Hz or 259.2 Hz

6.12 FM

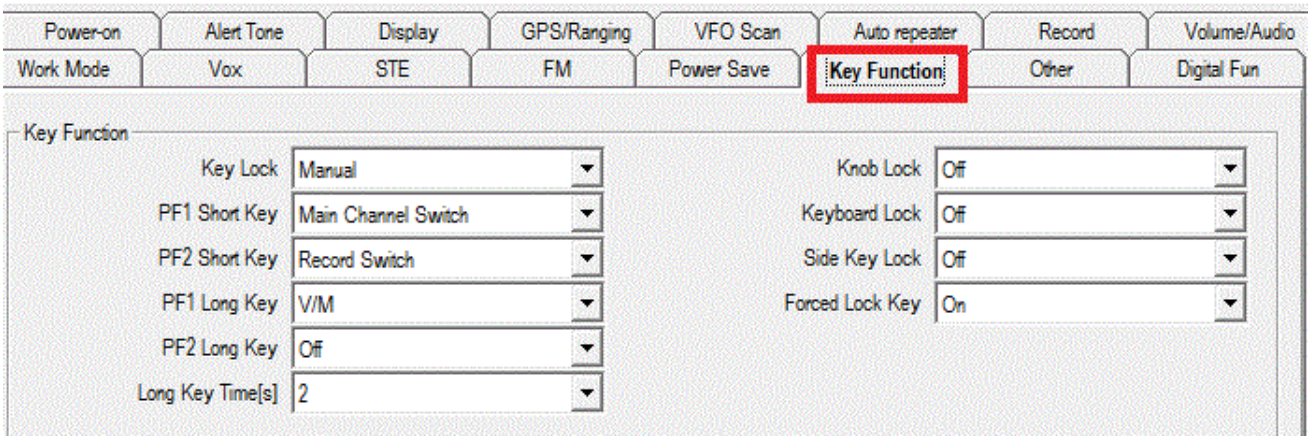


FM VFO/MEM Switch VFO and memory channel mode for FM. To create the memory channel list go to Public➔ FM.
FM Work Channel Select the channel from memory channel list will be displayed on the screen when FM is on.
FM Monitor Select On :During FM radio is On, radio still allows to receive or transmit signal on the channel.

6.13 Power Save

Auto Shutdown Set the timer to auto shutdown radio, during the duration of time if any key is pressed the timer will be reset and the shutdown duration time will be prolonged.
Power Save Turn on to activate the power save function, to prolong the battery life. 1:1: Radio works 30ms, dormant 30ms. 2:1: Radio works 60ms, dormant 30ms

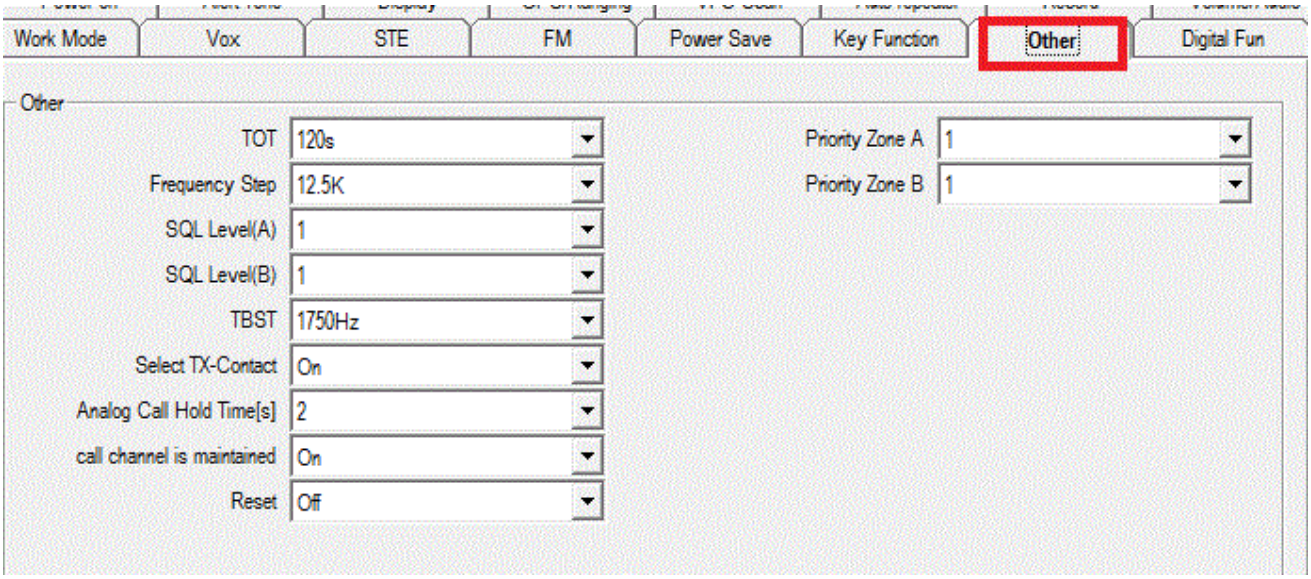
6.14 Key Function



Key Lock **Manual:** press and hold the * key to activate the key lock, when key lock is on the (MENU) key is locked. **Auto:** Radio will auto lock the keypad when standby for a while. Press (MENU) key, then press the * key to unlock the keypad. Press (MENU) key, then press the * key to unlock the keypad.
PF1 Short Key Assign the function for PF1 key, press the key to activate the function.
PF2 Short Key Assign the function for PF2 key, press the key to activate the function.
FP1 Long Key Assign the function for PF1 key, press and hold the key to activate the function. The time duration depends on the Long Key Time as you set.
PF2 Long Key Assign the function for PF2 key, press and hold the key to activate the function. The time duration depends on the Long Key Time as you set.
Long Key Time Set the time duration when press and hold the key to activate the long press key.

Knob Lock When select On, after pressing and holding the ⊛ key to activate function authe channel knob will be locked. Select Off to turn off the function.
Keyboard Lock When select On, after pressing and holding the ⊛ key to activate function the keypad will be locked except the ▲ / ▼ key. Select Off to turn off the function.
Side Key Lock When select On, after pressing and holding the ⊛ key to activate function the side keys [PF1] and [PF2] will be locked. Select Off to turn off the function.
Forced Lock Key When select On, after pressing and holding the ⊛ key to activate function the ⊜ (MENU) key is locked. Select Off to turn off the function.

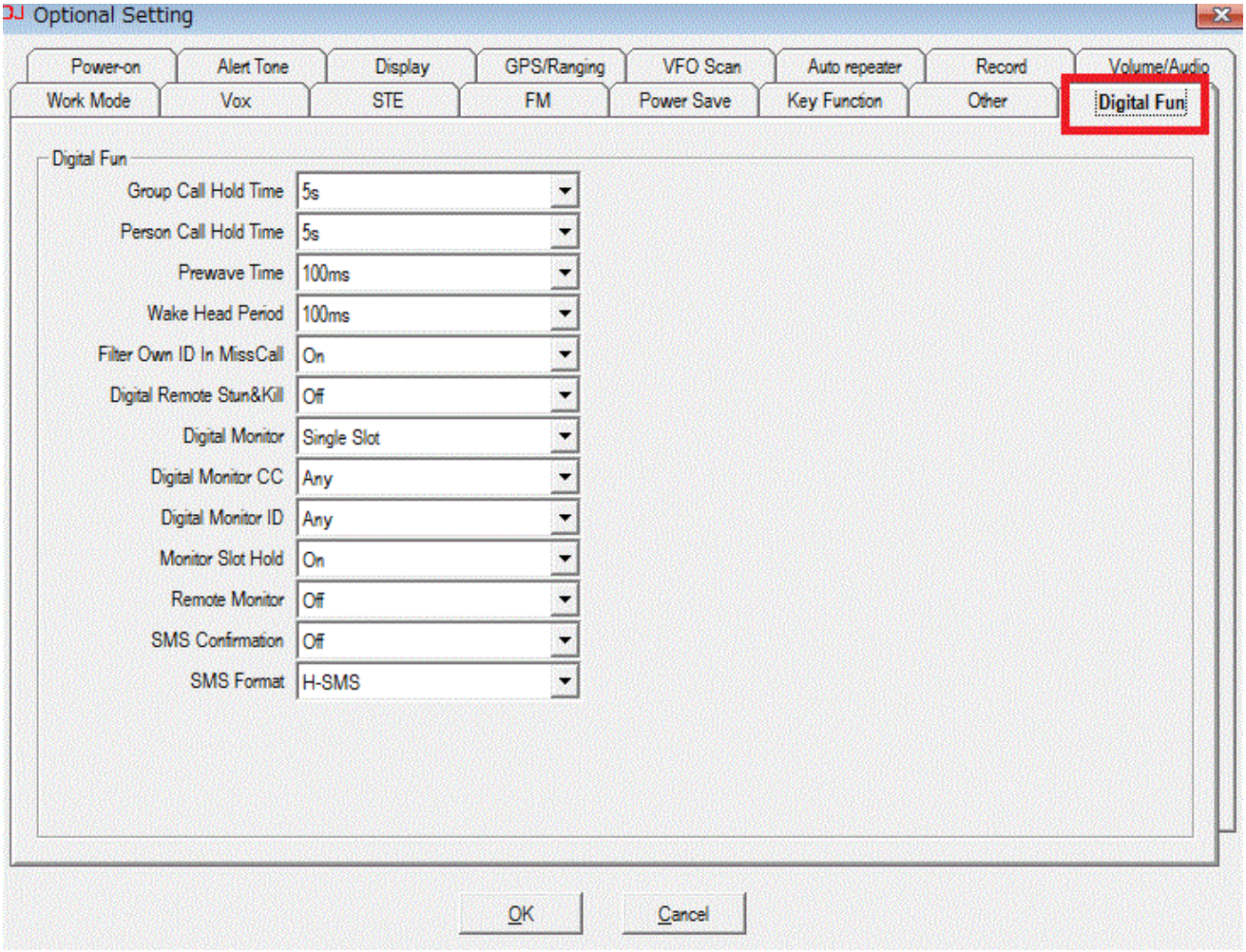
6.15 Other



TOT The Time-Out Timer (TOT) is the duration that the radio can continuously transmit before a transmission is automatically terminated.
Frequency Step Selectable: 2.5K,5K,6.25K,10K,12.5K,20K,25K,30K,50K, a total of 9 frequency steps.
SQL Level (A) Set the squelch level for the channel A.
SQL level (B) Set the squelch level for the channel B.
TBST

Tone burst frequency is used to activate some dormant repeaters, 1000Hz, 1450Hz,1750Hz, 2100Hz a total of 4 options are offered. Press PTT and PF1 key together to transmit the tone burst.
Select TX-Contact When On, the radio DMR ID can be changed by input from keypad
Analog Call Hold Time Select how long a call is held for Analog reception.
Call Channel is Maintained Set to Off or On allows a transmit on the sub-channel B if done within 5 seconds after the call carrier was dropped
Reset Select On to allow the reset process on radio by pressing and holding [PF1] + PTT then turn the power knob to power on. Select Off to prohibit reset process on radio
Priority A Select Off or select which desired zone is set as priority zone
Priority B Select Off or select which desired zone is set as priority zone

6.16. Digital Fun



Group Call Hold Time 1S – 30S: Select hang time for a Group Call
Person Call Hold Time 1S – 30S: Select hang time for a Private Call
Preware Time 0 mS – 1000 mS: Select the time to wake-up the radio from a power save
Wake Head Period 40 mS – 1200 mS: Select the time for the preamble – 200 mS recommended
Filter Own ID In Miss Call Select Off or On then the radio will not remind of a miss call when receiving a call with same ID.
Digital Remote Stun & kill On: Allow remote kill/ stun a radio. Be noted that both transmitter and receiver need to set On to use this function.
Digital Monitor Select Off or Single Slot or Double Slot
Digital Monitor CC **Any:** Allow to monitor any color code of an incoming signal. **Same:** Allow to monitor only the color code that match to current setting of radio channel.
Digital Monitor ID **Any:** Allows to monitor any talk group ID of an incoming signal.

Same: Allows to monitor only the group talk ID, which same as current setting of radio channel.

Monitor Slot Hold

Off: Turn off the slot hold

On: Turn on the slot hold

A recommend to turn on slot hold function when monitoring both time slots. When an incoming signal disappears and your radio is monitoring a time slot, instead of switching to monitor the other time slot, radio will hold on some seconds and wait untill incoming signal dissapears.

Remote Monitor

On: Activate the function.

Off: Turn Off the function.

Remote Monitor feature allows a remote user to activate a target radio's microphone and transmitter for a period of time. A call is silently set up on the target radio, and its PTT is controlled remotely without any indications given to the end user. The duration that the target radio transmits after receiving a Remote Monitor command is set in the target radio through the PC software. When receiving the Remote Monitor command, the target radio initiates a Private Call back to the originator of the Remote Monitor command.

SMS Confirmation

On: Allow an SMS to be confirmed when sent out.

Recommend On when sending SMS

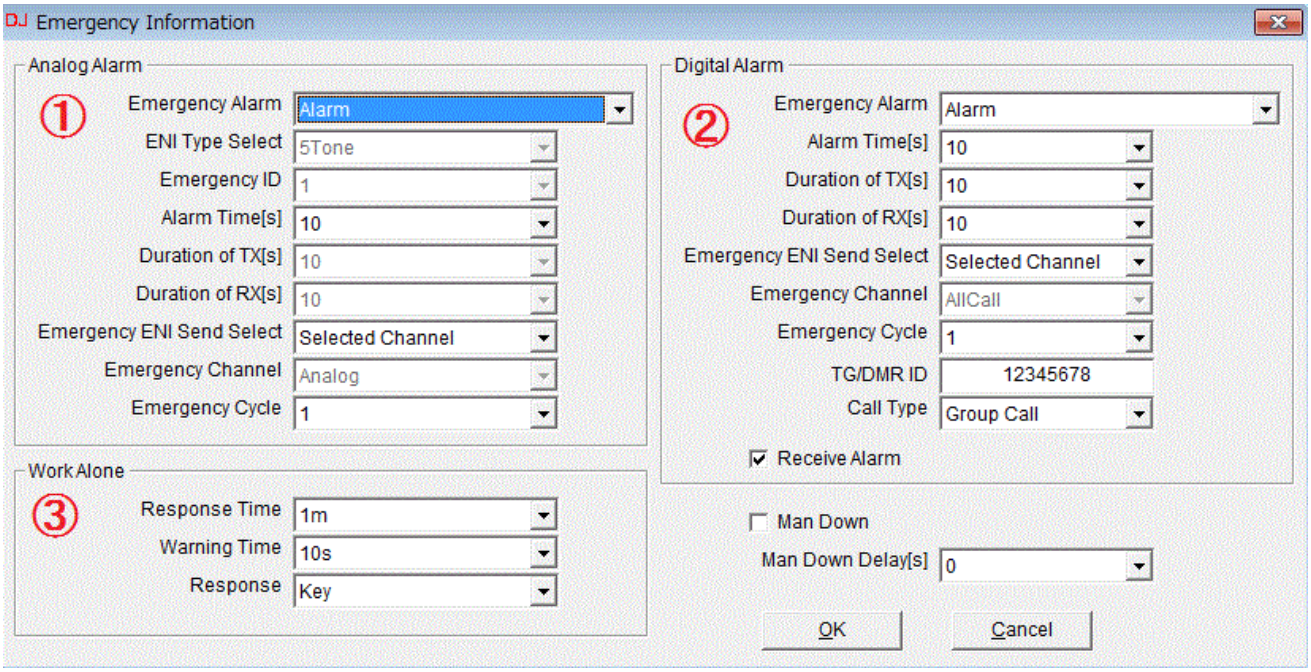
SMS Format

There are 2 format types of a message. If the transmit radio is set as M-SMS/ H-SMS that require receiver radio must set as correspond M-SMS/H-SMS to receive message. (M-SMS is set as default setting)

M-SMS: Compatible to Motorola radio type.

H-SMS: Compatible to Hytera radio type.

7. Alarm Setting



① Analog Emergency Alarm

Emergency Alarm **Alarm:** Sounds alarm only **Transpond + Background:** Radio sends a short warning sound and transmits to talk. **Transpond + Alarm:** Radio sends the alarm sound. **Both:** Radio sends the short warning sound and alarm sound.
ENI Type Select Select from None, DTMF or 5Tone
Emergency ID When ENI Type choose DTMF or 5Tone, you should edit the DTMF or 5Tone firstly, then choose the required number in this column
Alarm Time Select after what time the alarm should be initiated
Duration Of TX Select the duration of the Alarm transmission
Duration Of RX Select the duration of listening mode after an alarm reset
Emergency ENI Send Select Select which channel the Alarm should be sent out on
Emergency Channel Select which channel to use
Emergency Cycle Select Continuous or a time

② Digital Emergency Alarm

Emergency Alarm Alarm: Sounds alarm only Transpond + Background: Transmits to talk Transpond + No Local Alarm: Send a short warning sound Transpond + Local Alarm: Sends a a short warning sound and then send alarm sound
Alarm Time 1S – 255S: Select after what time to initiate the Alarm
Duration of TX Select the duration of the Alarm transmission
Duration Of RX Select the duration of listening mode after an alarm reset
Emergency ENI Send Select Assigned Channel: Select the channel in memory channel list to transmit alarm Selected Channel: Select the current channel to transmit alarm
Emergency Channel Select the channel to transmit alarm when Emergency ENI Send Select is selected as Assigned Channel
Emergency Cycle Select Continuous or a time
TG/DMR ID
Call Type Select the call type Private Call, Group Call, All Call

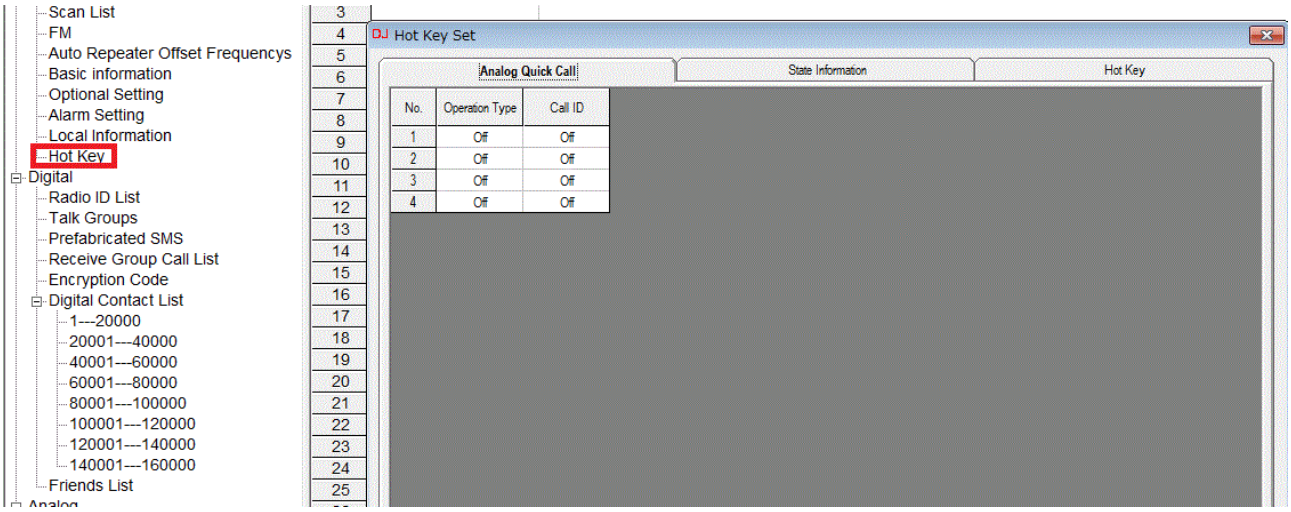
③ Work Alone

Response Time Select the time for the radio to respond to an Alarm trigger
Warning Time Select the duration for a warning transmission
Response Select Key or Voice for a response to reset
Man Down Select Man down to turn on the function, when turn mandown On the radio will start alarm if the radio is falling to the ground or put the radio at the horizontal. Raise the radio to stop the alarm. **Man Down Delay:** Set the delay time that man down will be delay before starts to work.

8. Local Information

Connect radio to PC by a cable, then click to Local Information it will shows radio`s information.

9. Hot Key



Analog Quick Call

The Call ID refer to the DTMF, 2Tone or 5 Tone set up under separate menu

State Information

Allows text messages to be entered and made available for digital calls and can be selected when using Hot Key's functions

Hot Key

To assign a function for the key on keypad.

Call	Analog	Should edit the analog quick call first, then choose analog in the hot key set. Press the key to transmit 2Tone/5Tone/DTMF to start the analog quick call.
	Digital	It allows to select a contact from the digital contact list, press the key to switch the channel to the contact temporary. It will switch back to the original contact after the group/personal call hold time.
	SMS	Quick access to Messages in the menu
	New Msg	Quick access to New Msg in the Menu - Messages
	Quick Text	Quick access to Quick Text in the Menu - Messages
	Inbox	Quick access to Inbox in the Menu - Messages
	Outbox	Quick access to Out box in the Menu - Messages
	Contact list	Quick access to Contact list in the Menu - Contacts

Menu	Manual dial	Quick access to Manual Dial in the Menu - Contacts
	Call Log	Quick access to Call Log in the Menu
	Sent Calls	Quick access to Dialed Calls in the Menu - Call Log
	Answered Calls	Quick access to Answered Calls in the Menu - Call Log
	Missed Calls	Quick access to Missed Calls in the Menu - Call Log
	Zone	Quick access to Zone in the Menu
	Radio set	Quick access to Radio Set in the Menu - Settings

II : Digital

1. Radio ID List

No.	Radio ID	Name
1	12345678	My Radio
2	8765432	Radio 2
3		
4		
5		
6		
7		
8		

Radio allows to create multiple DMR Radio ID. It allows to edit and select an ID for the channel, each channel is allowed to select one ID.

2. Talk Groups

TG/DMR ID	Call Alert	Name	Call Type
1	None	Group	Group Call
16777215	None	ALL	All Call
30	None	Private	Private Call

Create the Group call, Private call and All call.
Private call: TD/DMR ID is the ID of a target radio need to be saved.
Group call: All member in the group need to set the same Group ID on the same channel.
All call: When set All Call the default ID is 167777215, all radios are set as All Call can communicate to each other.

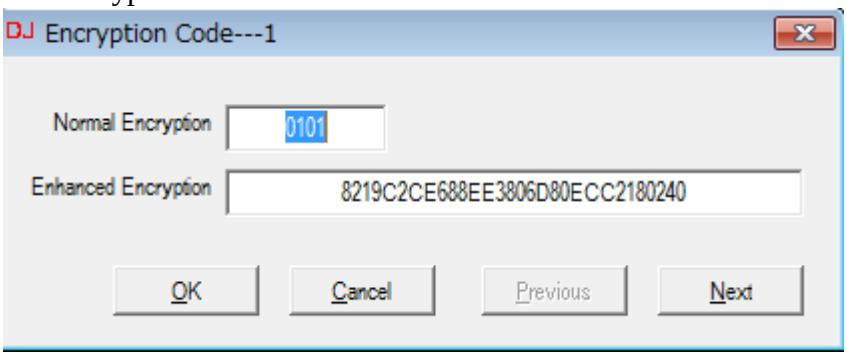
3. Prefabricated SMS

Text
Hello!
Welcome!
Thank you!
Good bye!
Happy every day!

Create SMS messages then store it into radio, this is convenience when you want to send the pre-stored messages.

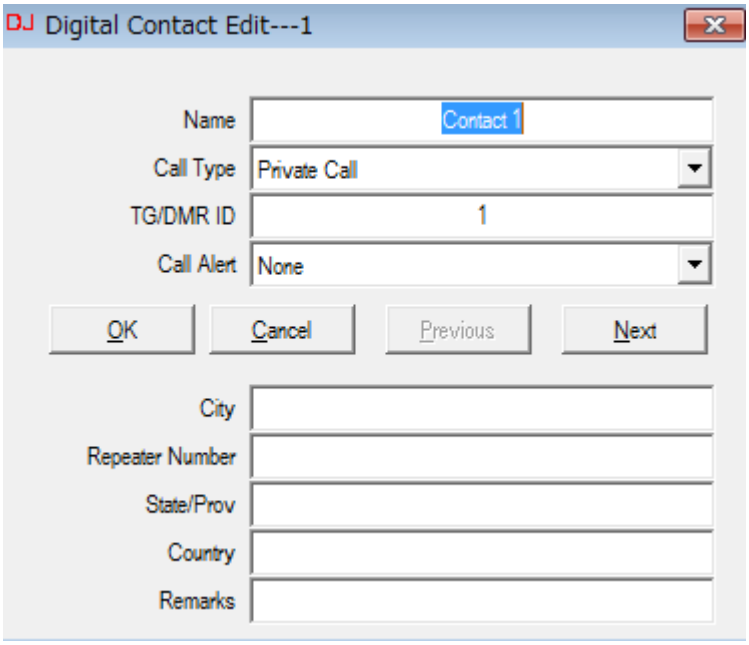
4. Receive Group Call List
   Make a receiving group list call.

5. Encryption Code



With the digital encryption, the communication will be secured and safe. Only the radios have set same encryption code can communicate to each other. A total of 32 digital encryptions is offered, and it can be programmed in the PC software or defined in the Menu setting.

6. Digital Contact List



This console for creating the digital contact list.
Name: Input the name of contact.
Call Type: Select the call type.
TG/DMR ID: Input the ID
Call Alert: Select the type of notifiction when receive a call alert

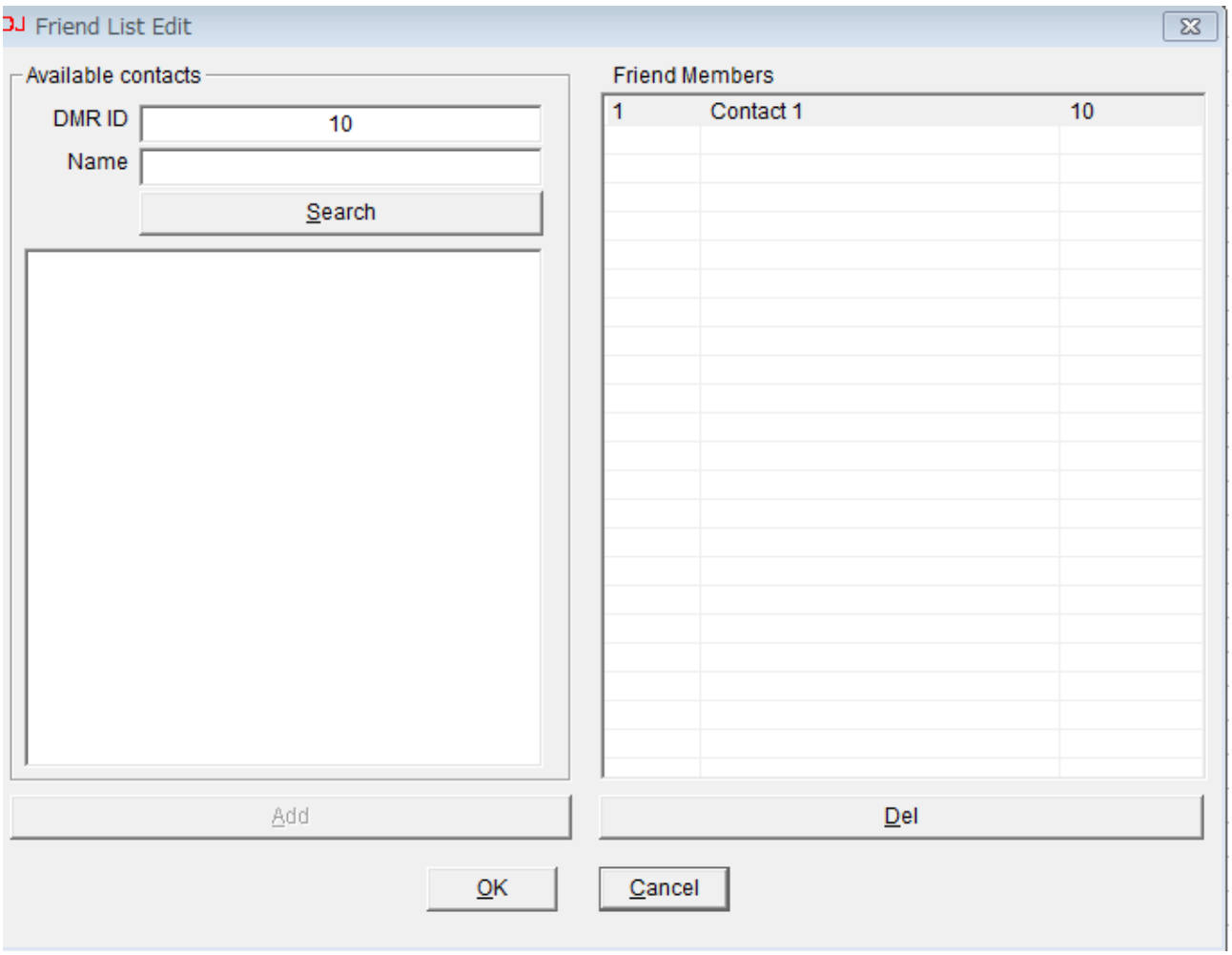
The Digital Contact list also can be generated by importing/Export the CSV format.
Go to Tool➔ Import➔ Digital Contact List and import the CSV file with format content like this.

	A	B	C	D	E	F	G	H	I	J
1	No.	Radio ID	Callsign	Name	City	State	Country	Remarks	Call Type	Call Alert
2	1	10	ABC	Contact 1	City Name	State Name	Country Name	Remarks	Private Call	None
3	2	11	ABC	Contact 1	City Name	State Name	Country Name	Remarks	Private Call	None
4										
5										

After the file is imported, the Digital Contact Will be shown in PC software interface.

No.	TG/DMR ID	Call Alert	Name	City	Call Type	Repeater Number	State/Prov
1	10	None	Contact 1	City Name	Private Call	ABC	State Name
2	11	None	Contact 1	City Name	Private Call	ABC	State Name
3							
4							
5							

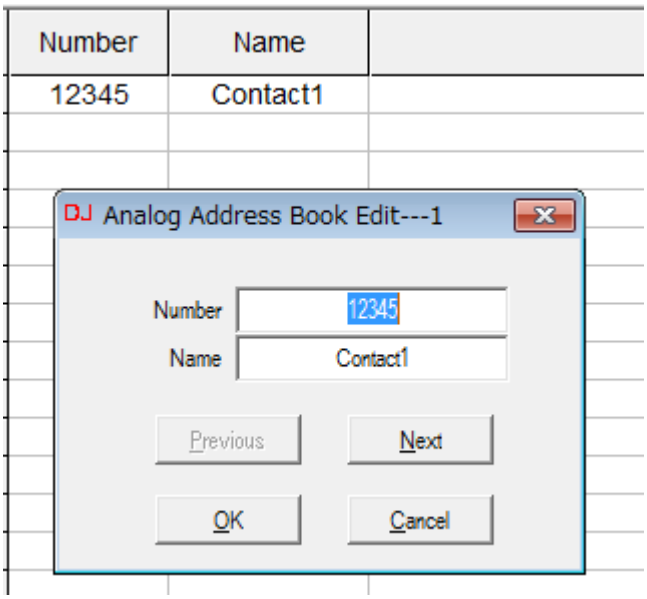
7. Friends List



At Friend List where you can create a list of your special contacts from Digital Contact List. To search, enter a DMR ID and build a Friends Member List so that you will hear a tone when those people come on the air.

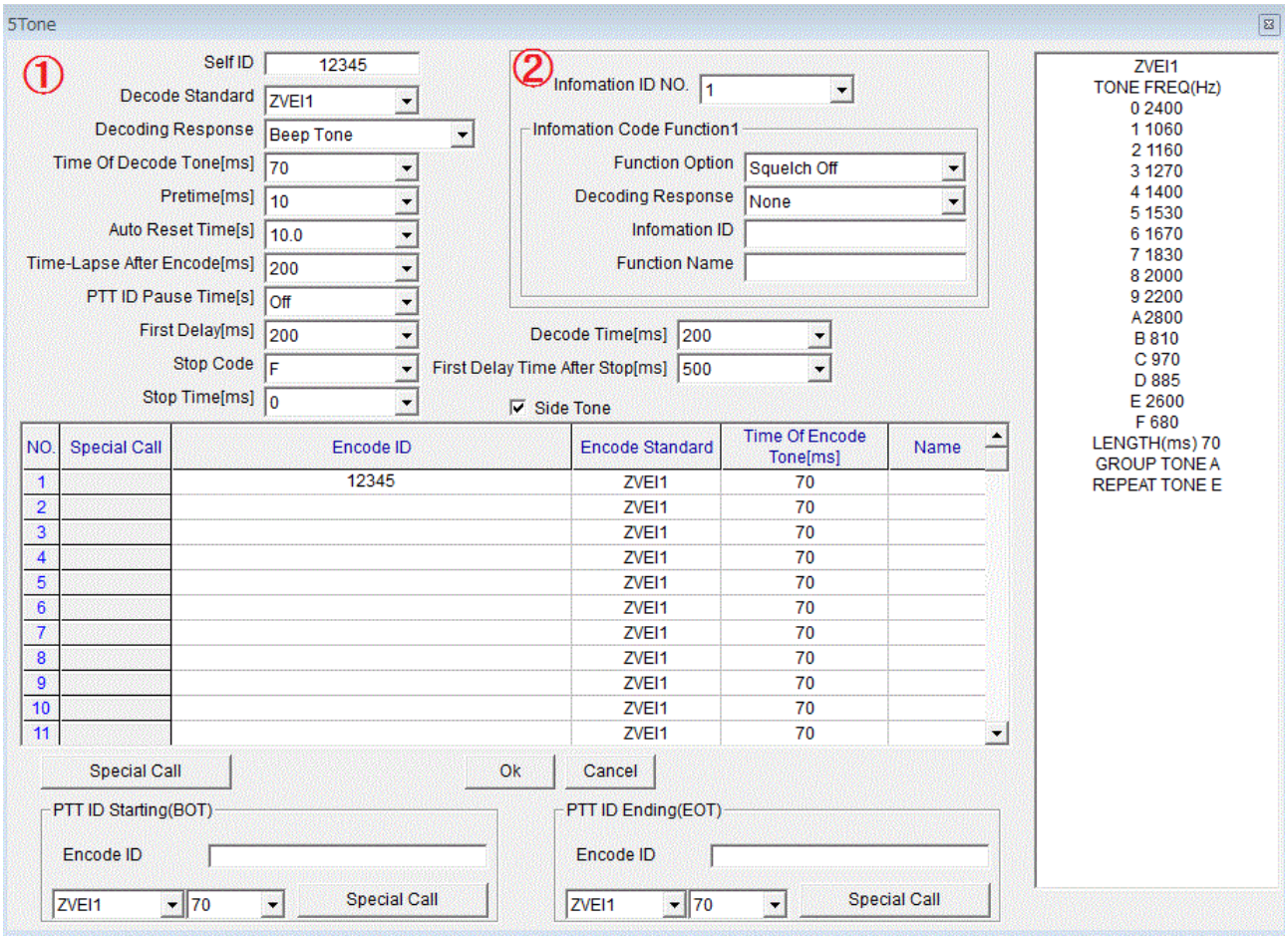
III: Analog

1. Analog Address Book



The radio allows a set of addresses for the Analog mode. Open the Analog Address Book and click on the first line to open the Analog Address Book Edit window. the Call ID reference the DTMF or 5Tone number programmed under its menu.

2. 5Tone Setting



①

Set 5Tone is an “optional signal” for the the current analog channel by using PC software. Set “call” is a function of a programmed key. To set go to Public➔ Channel➔Analog.

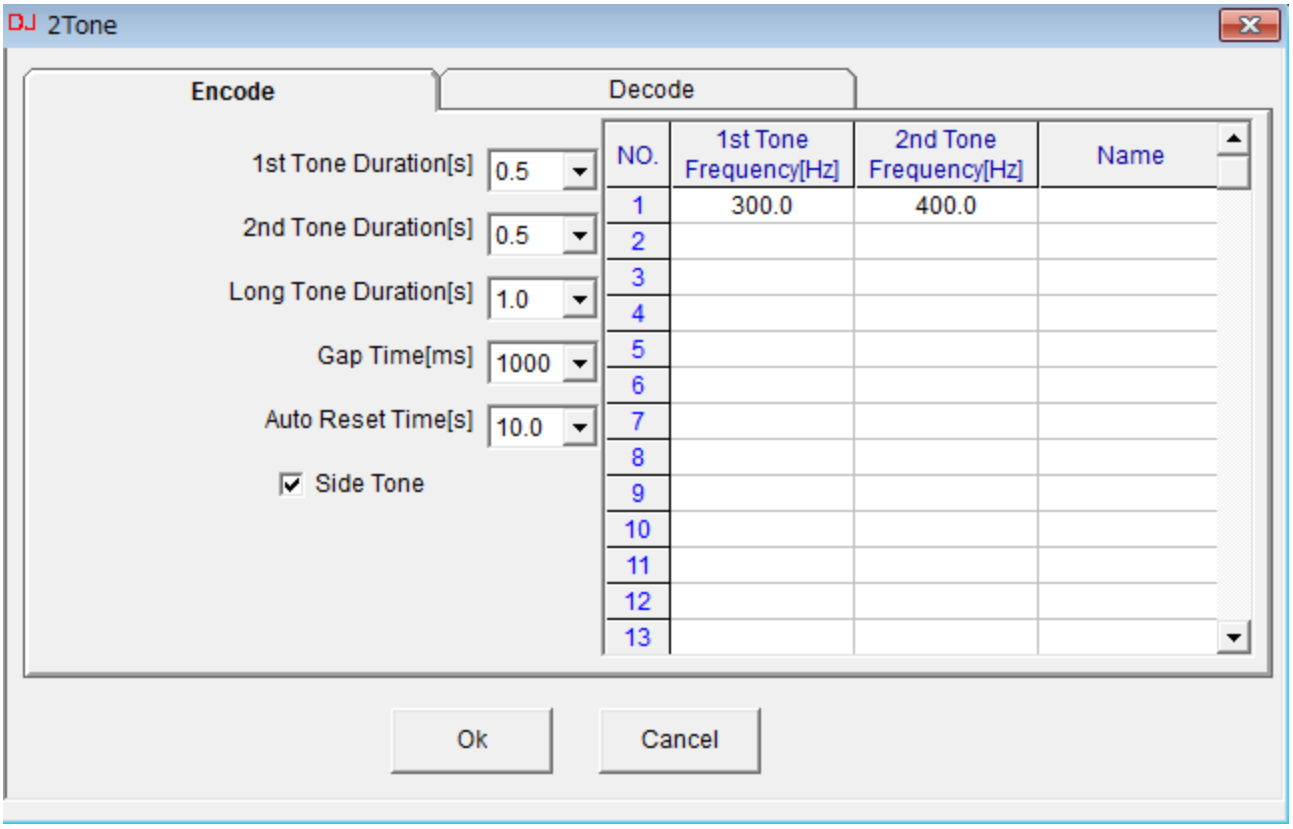
Press the programed key to transmit the selected 5Tone to a target radio. When squelch is opened at the receiver side press [PTT] to talk.

Self ID: Input the desired ID
Decode Standard: Select the desired decode standard
Decoding Response: Select None or Beep Tone or Beep Tone & Respond when the receiver`s tone is decoded.
Time Of Decode Tone: 30mS – 100 mS
PreTime: 10mS – 2550mS
Auto Reset Time: 0S – 25S Set the time to reset 5Tone after squelch is opened.
Time-Lapse After Encode: 10mS – 2550mS
PTT ID Pause Time: Off or 5S -75S
First Delay: 10mS – 2550mS
Stop Code: Off or B, C, D, F
Stop Time: 0mS – 2550mS

②

Information ID No: 1 - 16
Function Option: Squelch Off, Call All, Emergency Alarm, Remotely Kill, Remotely Stun, Remotely Stun, Remotely Wake Up, Group Call.
Decoding Response: Beep Tone, Beep Tone & Respond
Information ID: Input the Information ID

3. 2Tone Setting

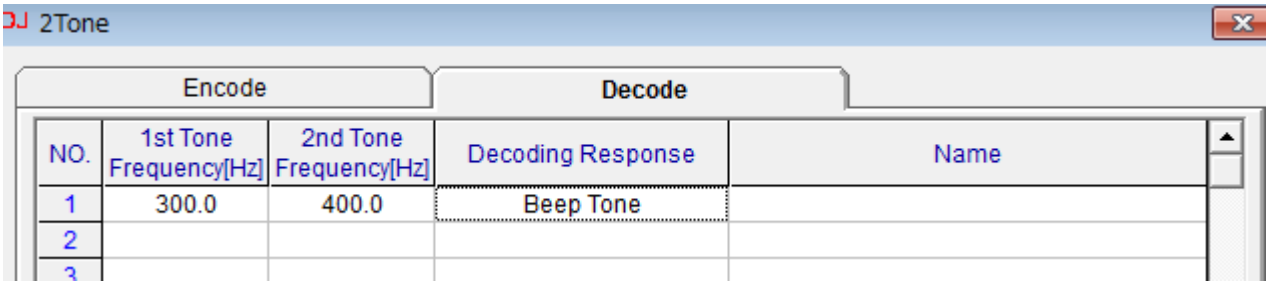


Set 2Tone is an "optional signal" for the the current analog channel by using PC software. Set "call" is a function of a programmed key. To set go to Public➔ Channel➔Analog.

Press the programed key to transmit the selected 2Tone to a target radio. When squelch is opened at the receiver side press [PTT] to talk.

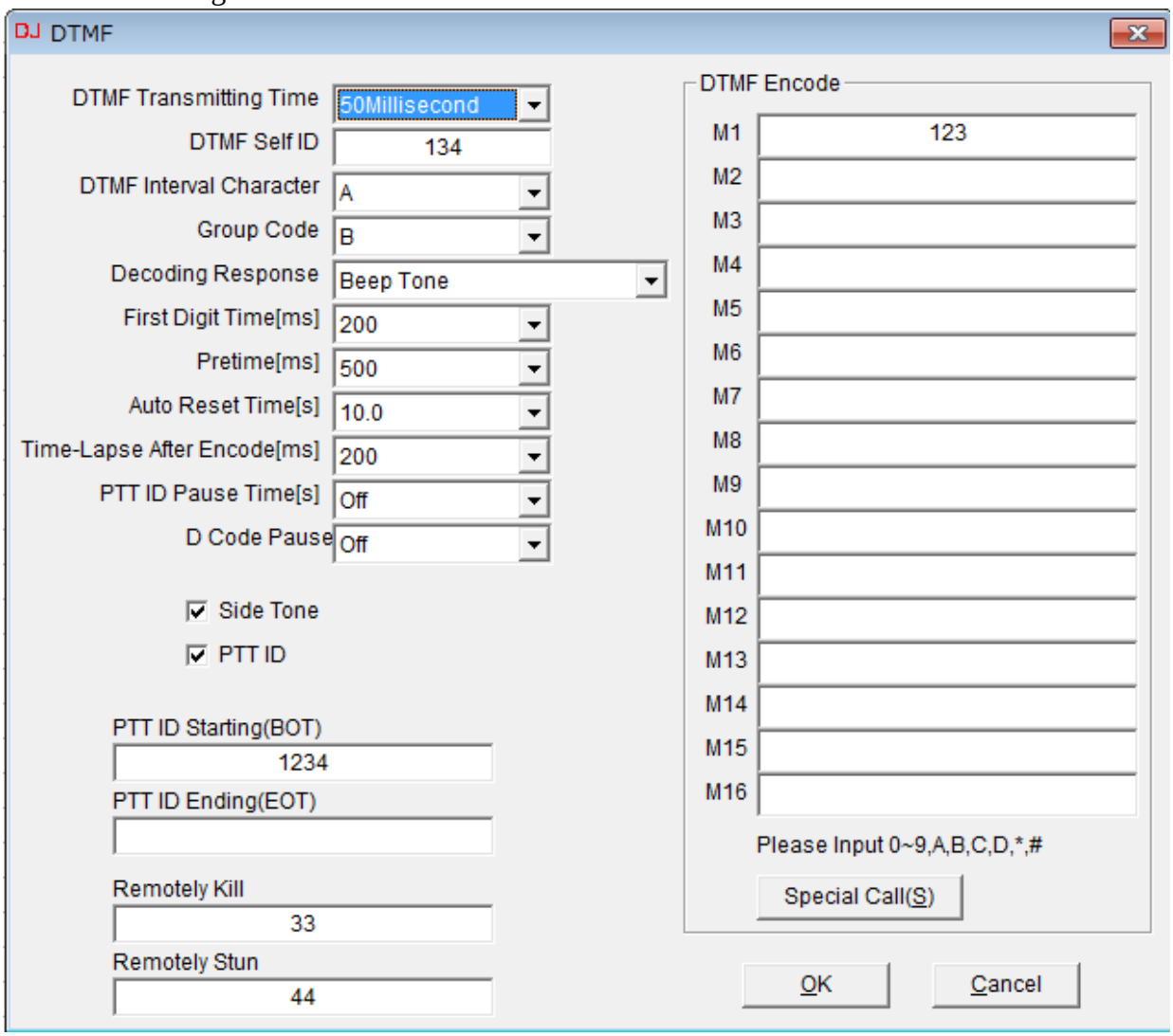
1st Tone Duration: 0.5S – 10S
2nd Tone Duration: 0.5S – 10S
Long Tone Duration: 0.5S – 10S
Gap Time: 0S – 2000S
Auto Reset Time: 0S – 25S

Go to Decode to set the decode tone.



Set the 1st decode Tone Frequency and 2nd decode Tone Frequency.
Decoding Response
None: No notification when tone is decoded.
Beep tone: Radio sounds beep when tone is decoded.
Beeo Tone and Respond: Radio sound beep and sends a notifiction to the receiver when tone is decoded.

4. DTMF Setting



To set DTMF as an optional signal for the current analog channel, go to Public➔ Channel➔Analog.
Press and hold the PTT key to transmit the DTMF ID to a target radio. When squelch is opened at the receiver side you can talk into the microphone to start a conversation.

DTMF Transmitting Time: 50mS – 500mS
DTMF Self ID: Set the ID
DTMF Internval Character: Select A, B, C, D, *, #
Group Code: Select Off or A, B, C, D, *, #

Decoding Response: None, Beep Tone, Beep Tone & Respond
First Digit Time: 0S – 2500S
Pre-time: 10S – 2500S
Auto Reset Time: 0S – 25S
Time-Lapse After Encode: 10mS – 2500mS
PTT ID Pause Time: Select Off or 5S – 10S
D Code Pause: Select Off Or 10S -16S
Side Tone:
PTT ID:
PTT ID Starting (BOT):
PTT ID Ending (EOT):
Remotely Kill: Set the number to kill a target radio. Press and hold PTT to transmit then press keypad to input the kill number. To revive the radio use PC software to read data from radio, it will automatically revived.

Remotely Stun: Set the number to revive a target radio. Press and hold PTT to transmit then press keypad to input the stun number. When a radio is activated stun on you can not do anything on the radio, the radio only can receive signal and sounds voice at speaker. To turn off the stun function on radio use PC software to read data from radio, stun will be turned off.