DJ-MD5 PC Software Guidance

Ver, 1.00 2018/08/16

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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 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.

Channel Name		Channel 1			
Receive Frequency	440.15000	Digital	P		
Transmit Frequency	440.15000	- 0	Contact	Private	
	-		Radio ID	My Radio	
Channel Type	D-Digital	<u> </u>	Color Code	1	-
Transmit Power	Low	<u> </u>	Slot	Slot1	-
Band Width	12.5K	-	Receive Group List	Group List 1	
TX Permit	Always	•	Digital Encryption	Off	
Scan List	None	•	Encryption Type		
TX Prohibit	Talk Around		Simplex TDMA	Call Confirmation	
Work Alone	Talk Around	•	Simplex TDMA TDMA Adaptive	Call Confirmation	
Work Alone Analog CTCSS/DCS Decod CTCSS/DCS Encod	Through Mode	×			
Work Alone Malog CTCSS/DCS Decod CTCSS/DCS Encod Squeich Mod	Through Mode Through Through				
Work Alone Analog CTCSS/DCS Decod CTCSS/DCS Encod	Through Mode Off Off Carrier Off Off				
Work Alone Analog CTCSS/DCS Decod CTCSS/DCS Encod Squelch Mod Optional Signa	Through Mode Off Off Carrier Off Off Off Off		TDMA Adaptive	Ranging	
Work Alone Analog CTCSS/DCS Decod CTCSS/DCS Encod Squelch Mod Optional Signa DTMF II	Through Mode		TDMA Adaptive	Ranging	

() 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.

DJ-MD5 ⊡-Public	No.	Name	Zone Channels	A Channel	B Channel
Channel	1	Zone 1	4	AllCall	PrivateE
Zone	2	Zone 2	2	PrivateE	Group
-Scan List	3				
FM	4				
Auto Repeater Off	E				

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.

vailable Channel				Zone Chann	el Member	
AllCall		80. S. S. S. S.		1	PrivateE	1.000
				2	Group	
				4	Analog	
			>>			Order By
						<u>I</u> D
			<	1		Name
						Up
						<u>D</u> own
rder By <u>I</u> D	Name					

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.

MD5 Public	No.	Name	Channels	Scan Mode	Priority Channel 1	Priority Channel 2	Look Back Time A[s]	Look Back Time B[s]	Dropout Delay Time[s]	Dwell Time[s]
-Channel	1	Scan List 1	4	Off	Off	Off	2.0	3.0	3.1	3.1
Zone Scan List	2	DJ Scan Edit	1							
FM	4									
-Auto Repeater Off	5			Scan List Name	S	can List 1				
-Basic information	6									
- Optional Setting	7	Available Chann	el		Scan	Channel Member				
-Alarm Setting	8				1	PrivateE				
-Local Information	9				2	Group		Priority	Channel Select	
-Hot Key	10				3	AllCall		Off	Channel Select	
igital	11				>> 4	Analog				
-Radio ID List	12							Priority	Channel 1	
Talk Groups	12							Off	.	
Prefabricated SMS	13									
Receive Group Ca	14				<<				Channel 2	
-Encryption Code								Off	*	
Digital Contact List	16							Revert	Channel	
120000	17							Select	and control of the state of the	
2000140000	18							Toeleci		
4000160000	19								ack Time A[s]	
- 6000180000	20							2.0	-	
-8000110000(21							Last D	ack Time B[s]	
100001 1200(22							1		
1200011400(23							3.0	-	
14000116000	24							Dropou	It Delay Time[s]	
Friends List	25							3.1	-	
nalog	26							States		
Analog Address B	27							Dwell 1	and the second	
5Tone Setting	28	Order By	ID	Name	Order By	ID Name		un 3.1	<u> </u>	
2Tone Setting	29			Trans.	- ¹			<u> </u>		
DTMF Setting	30									
	31		<u>(</u>	<u>o</u> k	Cancel	Previous	<u>N</u> ext			
	32							-		

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

	No.	Frequency[MHz]	Scan	
-	1	108.00	Add	
	2	/		
	3	DJ FM Channel Ed	it1	
	4			
	5	Frequency [MHz]	108.00	
	6	Scan	\dd	-
	7			
	8	Previous	Ne	M
	9			
	10	<u></u> K	Can	~
	11			<u> </u>
	12			

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

J-MD5 ∋-Public	No.	Offset Frequency
Channel	1	600.00 KHz
Zone	2	1.00000 MHz
Scan List	3	
FM	4	
Auto Repeater Offset Frequencys	5	
-Basic information	6	
Optional Setting	7	
-Alarm Setting	8	
- Local Information	<u>^</u>	

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 \rightarrow Optional Setting \rightarrow Auto Repeater.

6. Optional setting

6.1 Power on

Work Mode	Vox	STE	FM	Power Save
Power-on	Alert Tone	Display	GPS/Ranging	VFO Scan
Power-on				
	wer-on Interface	Custom Picture	-	
Power-on	Display			
	1_1_1	1_1_1_1_1_1_1_1		
Pow	er-on Password	Off	_	
Power-on	Password Char			
Power-on	Password Char			

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

Work Mode Vox	STE		FM		y Function	Other Digital Fu
Power-on Alert Tone	Display	GPS/R	anging	VFO Scan Auto	repeater Re	ecord Volume/Audio
Alert Tone						
SMS Alert	Ring		•			
Call Alert	Ring		-			
Digi Call ResetTone	On		-	Idle Channel Tone		
Talk Permit	Off		-	Play	Frequency[Hz]	Period[ms]
Key Tone	Off		-	2 First Tone	1500	100
Idle Channel Tone			-	Second Tone	600	100
	On		-	Third Tone	0	0
Volume Change Prompt			-	Fourth Tone	0	0
				Fifth Tone	0	0
Key Sound Adjustable	Adjustable		<u> </u>		•	
Call Tone				Call Reset Tone		
Play Fr	equency[Hz]	Period[ms]		Play	Frequency[Hz]	Period[ms]
3 First Tone	700	150		First Tone	1900	100
Second Tone	0	0		Second Tone	0	100
Third Tone	0	0		Third Tone	0	0
Fourth Tone	0	0		Fourth Tone	0	0
Fifth Tone	0	0		Fifth Tone	0	0
	None and State					

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

Work Mode	Vox	STE	FM
Power-on	Alert Tone	Display	GPS/Ranging
Display			
	Brightness	5	•
Auto B	acklight Duration	Always	•
М	enu Exit Time[s]	60	•
	Time Display	On	•
	Last Caller	Show Both	•
Ca	all Display Mode	Name Based	•
Call Sig	n Display Color	Black	•
Call E	End Prompt Box	On	•
Display (Channel Number	Actual Channel Nu	mber 💌
Display	Current Contact	Off	•
Show Last	Call On Launch	Off	•

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

Vox	STE	∫ FM	Power Sav
Alert Tone	Display	GPS/Ranging	VFO Scan
PS Positioning	Off	-	
Time Zone	GMT8	•	
Distance Unit	Metric	-	
	Alert Tone PS Positioning Time Zone	Alert Tone Display PS Positioning Off Time Zone GMT8	Alert Tone Display GPS/Ranging

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

6.5 VFO Scan

Work Mode	Vox) STE	∫ FM	Power Save
Power-on	Alert Tone	Display	GPS/Ranging	VFO Scan
VFO Scan				
	Scan Mode	SE	•	
VFO Scan S	Start Freq(UHF)	400.00	000	
VFO Scan I	End Freq(UHF)	480.00	000	
VFO Scan S	Start Freq(VHF)	136.00	000	
VFO Scan	End Freq(VHF)	174.00	000	

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

Work Mode	Vox	STE	FM	Power Save	Key Function	0
Power-on	Alert Tone	Display	GPS/Ranging	VFO Scan	Auto repeater	Reco
Auto repeater						
	Auto Repeater A	Positive	-			
	Auto Repeater B	Positive	Ŧ			
	Repeater(UHF)	600.00 KHz	•			
	Repeater(VHF)	600.00 KHz	.			
Min Freq Of /	Auto Repeater(VHF)	145	5.00000			
Max Freq Of /	Auto Repeater(VHF)	174	.00000			
Min Freq Of A	Auto Repeater(UHF)	450	.00000			
Max Freq Of A	Auto Repeater(UHF)	480	.00000			
		CONTRACTOR OF CONTRACTOR				

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 \rightarrow 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 \rightarrow 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

Vox	STE Directory	FM ODD/Dessing	Power Save	Key Function	Other
Alert Tone	Display	GPS/Ranging	VFO Scan	Auto repeater	Record
Record Function	On	¥			

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

VUA	UIL	1 101	I OWEL GAVE	I Cey I uncoun	Utilei	
Alert Tone	Display	GPS/Ranging	VFO Scan	Auto repeater	Record	Volume/Audio
aximum Volume	doors	•				
idphone Volume In	doors	-				
Mic Level 3		-				
	utdoox					
	Alert Tone aximum Volume In adphone Volume In Mic Level 3	Alert Tone Display aximum Volume Indoors adphone Volume Indoors	Alert Tone Display GPS/Ranging aximum Volume Indoors adphone Volume Indoors Mic Level 3	Alert Tone Display GPS/Ranging VFO Scan aximum Volume Indoors adphone Volume Indoors Mic Level 3	Alert Tone Display GPS/Ranging VFO Scan Auto repeater aximum Volume Indoors adphone Volume Indoors Mic Level 3	Alert Tone Display GPS/Ranging VFO Scan Auto repeater Record aximum Volume Indoors adphone Volume Indoors Mic Level 3

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 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

Power-on	Alert Tone	Display	GPS/Ranging	Υ
Work Mode	Vox	STE	FM	Po
Work Mode				
	Display mode	Frequency	-	
	VFO/MR(A)	MEM	•	
	MEM Zone(A)	Zone 1	•	
	VFO/MR(B)	MEM	•	
	MEM Zone(B)	Zone 1	•	
Ma	in Channel Set	A	•	
Sub-	Channel Mode	On	-	

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 \rightarrow 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 \rightarrow Zone.

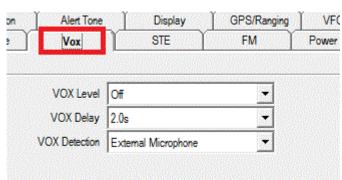
Main Channel Set

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

ver-on	Alert Ione		Display	GPS/Ranging	VFO So		
/lode	Vox	Т <u></u>	STE	FM	Power Sav		
STE Ty	pe Of CTCSS	Silen	t	•			
STE W	/hen No Signal	259.2Hz 💌					

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 SignalSelect Off or 55.2 Hz or 259.2 Hz

6.12 FM

Alert Tone	Display	GPS/Ranging	Ì VF0	
Vox	STE	FM	Power	
FM VFO/MEM	VFO	•		
FM Work Channel	1	•		
FM Monitor	Off	•		

FM VFO/MEM

Switch VFO and memory channel mode for FM. To create the memory channel list go to Public \rightarrow 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

Alert Tone	Display	GPS/Ranging	VFO Scan	Aut
Vox	STE	FM	Power Save	Key F
				100000000000000000000000000000000000000
Auto Shutdown	Off	•		

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

Alert Tone	Display	GPS/Ranging	VFO Scan	Auto repeater	Record	Volume/Audio
Vox	STE Y	FM	Power Save	Key Function	Other	Digital Fun
Key Lock	Manual	•		Knob Lock Off		•
PF1 Short Key	Main Channel Switch	-		Keyboard Lock Off		-
PF2 Short Key	Record Switch	-		Side Key Lock Off		-
PF1 Long Key	V/M	•	Fo	rced Lock Key On		•
PF2 Long Key	Off	•				
Long Key Time[s]	2	-				
	Vox Key Lock PF1 Short Key PF2 Short Key PF1 Long Key PF2 Long Key	Vox STE Key Lock Manual PF1 Short Key Main Channel Switch PF2 Short Key Record Switch PF1 Long Key V/M	Vox STE FM Key Lock Manual • PF1 Short Key Main Channel Switch • PF2 Short Key Record Switch • PF1 Long Key V/M • PF2 Long Key Off •	Vox STE FM Power Save Key Lock Manual • PF1 Short Key Main Channel Switch • PF2 Short Key Record Switch • PF1 Long Key V/M • PF2 Long Key Off •	Vox STE FM Power Save Key Function Key Lock Manual Knob Lock Off PF1 Short Key Main Channel Switch Keyboard Lock Off PF2 Short Key Record Switch Side Key Lock Off PF1 Long Key V/M Forced Lock Key On PF2 Long Key Off	Vox STE FM Power Save Key Function Other Key Lock Manual Knob Lock Main Channel Switch Main Channel Switch Keyboard Lock Keyboard Lock Min Channel Switch Side Key Lock Min Channel Switch Forced Lock Key Non PF1 Long Key Off PF2 Long Key Off Off T T

Key Lock

Manual: press and hold the key to activate the key lock, when key lock is on the \boxdot (MENU) key is locked.

Auto: Radio will auto lock the keypad when standby for a while. Press \boxdot (MENU) key, then press the key to unlock the keypad.

Press \boxdot (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 \boxdot / \boxdot 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 \boxdot (MENU) key is locked.

Select Off to turn off the function.

6.15 Other

/ork Mode Vox	STE	FM Po	wer Save Key Function	Other	Digital Fur
Dther					
TOT	120s	•	Priority Zone A	1	•
Frequency Step	12.5K	•	Priority Zone B	1	•
SQL Level(A)	1	•			
SQL Level(B)	1	-			
TBST	1750Hz	-			
Select TX-Contact	On	•			
Analog Call Hold Time[s]	2	•			
call channel is maintained	On	•			
Reset	ı Off	-			

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

Power-on	Alert Tone	Display	GPS/Ranging	VFO Scan	Auto repeater	Record	Volume/Auc
Work Mode	Vox	STE	∫ FM ∫	Power Save	Key Function	Other	Digital Fun
Digital Fun							
Group	Call Hold Time	5s	-				
Persor	Call Hold Time	5s	-				
	Prewave Time	100ms	•				
Wa	ike Head Period	100ms	•				
Filter Own	n ID In MissCall	On	-				
Digital R	emote Stun&Kill	Off	-				
	Digital Monitor	Single Slot					
Dig	gital Monitor CC	Any	Ŧ				
[) igital Monitor ID	Any	•				
N	Nonitor Slot Hold	On					
	Remote Monitor	Off	•				
SI	AS Confirmation	Off					
	SMS Format	H-SMS					
			la construction de la constructi				
			or I	0.1			
			<u>O</u> K	Cancel			
<u> </u>							
	Hold Tin	ne time for a G1	coup Call				
	Hold Tin		oup Can				
		time for a Pr	ivate Call				
eware Ti							
	-	ct the time to	wake-up the	radio from a	n power save		
ake Head			*		-		
mS - 120	0 mS: Sel	ect the time f	for the preamb	le - 200 mS	s recommended	1	
1110 120			for the preame	10 200 mic	, 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 disappears.

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

Analog Alarm			Digital Alarm		
Emergency Alarm	Alarm	-	Emergency Alarm	Alarm	-
ENI Type Select	5Tone	-	Alarm Time[s]	10	-
Emergency ID	1	-	Duration of TX[s]	10	-
Alarm Time[s]	10	•	Duration of RX[s]	10	-
Duration of TX[s]	10	-	Emergency ENI Send Select	Selected Channel	-
Duration of RX[s]	10	•	Emergency Channel	AllCall	-
Emergency ENI Send Select	Selected Channel	•	Emergency Cycle	1	-
Emergency Channel	Analog	-	TG/DMR ID	12345678	
Emergency Cycle	1	Ŧ	Call Type	Group Call	•
Vork Alone			Receive Alarm		
3 Response Time	1m	-	Man Down		
Warning Time	10s	¥	Man Down Delay[s]	0	-
Response	Кеу	-		1.	
			<u>0</u> K	Cancel	

(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

Scan List	3						
FM	4	DJ Hot K	ey Set				
-Auto Repeater Offset Frequencys	5						
-Basic information	6		Analog C	uick Call	State Information	Hot	Key
Optional Setting	7	No.	Operation Type	Call ID			
-Alarm Setting	8	140.	Operation Type	Carib			
- Local Information	9	1	Off	Off			
Hot Key	10	2	Off	Off			
⊡- Digital	11	3	Off	Off			
Radio ID List	12	4	Off	Off			
Talk Groups	13		•				
Prefabricated SMS	14						
-Receive Group Call List	15						
Encryption Code	16						
Digital Contact List	100000000000000000000000000000000000000						
120000	17						
2000140000	18						
-4000160000	19						
6000180000	20						
	21						
100001 120000	22						
	23						
140001160000	24						
Friends List	25						
h Analog 👘	ACCOUNT OF THE OWNER						

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.

		Should edit the analog quick call first, then choose analog in the hot key set. Press the key to transmit 2Tone/5Tone/DTMF
	Analog	to start the analog quick call.
		It allows to select a contact from the digital contact list, press
Call		the key to switch the channel to the contact temporary. It will
	Digital	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

	Manual dial	Quick access to Manual Dial in the Menu - Contacts
Menu	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 prestored messages.

- 4. Receive Group Call List Make a receiving group list call.
- 5. Encryption Code

DJ Encryption Code-	1		—
Normal Encryption	0101		
Enhanced Encryption	8219C2CE68	8EE3806D80ECC218	0240
<u>0</u> K	Cancel	<u>P</u> revious	Next

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

DJ Digital Contact Ed	lit1		×
Name		Contact 1	
Call Type	Private Call		•
TG/DMR ID		1	
Call Alert	None		•
<u>0</u> K	<u>C</u> ancel	<u>P</u> revious	Next
City			
Repeater Number			
State/Prov			
Country			
Remarks			

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.

	Α	В	С	D	E	F	G	Н	I. 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

OJ Friend List Ed	dit					8
Available conta	acts		Friend M	lembers		
DMRID	10		1	Contact 1		10
Name						
	<u>S</u> earch					
			<u> </u>			
			-			
	Add			D	el	
		<u>О</u> К	<u>C</u> ance	1		

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

Number	Name	
12345	Contact1	
DJ Analo	g Address Book	Edit1
N	umber	12345
	Name C	Contact1
	1	
	<u>P</u> revious	Next
	1	
	<u>O</u> K	Cancel

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

Tone									
A		Self ID	1234	45	C) _			ZVEI1
U	Decode S	Standard	ZVEI1	•		Infomation ID NO. 1	•		TONE FREQ(H
	Decoding Re	esponse	Beep Tone	Louis Contraction	•	Infomation Code Function	1		1 1060
Т	ime Of Decode T	one[ms]	70	•		Function Option	Squelch Off	-	2 1160 3 1270
	Pret	ime[ms]	10	•		Decoding Response	33°		4 1400
Auto Reset Time[s]			10.0	•		Infomation IE			5 1530 6 1670
Time-Lapse After Encode[ms]				10000		Function Name			7 1830
11111			200	•		FUNCTION			8 2000
	PTT ID Pause		Off	-					9 2200 A 2800
	First D	elay[ms]	200		I	Decode Time[ms] 200	-		B 810
	Ste	op Code	F	-	First Delay Ti	me After Stop[ms] 500	-		C 970
	Stop T	ime[ms]	0	•	V	Side Tone			D 885 E 2600
NO.	Special Call		, En	ncode ID		Encode Standard	Time Of Encode Tone[ms]	Name 🔺	F 680 LENGTH(ms) 7 GROUP TONE
1			1	12345		ZVEI1	70	22	REPEAT TONE
2						ZVEI1	70		
3						ZVEI1	70		
4						ZVEI1	70		
5						ZVEI1	70		
6						ZVEI1	70		
7						ZVEI1	70		
8						ZVEI1	70		
9						ZVEI1	70		
10						ZVEI1	70		
11						ZVEI1	70	-	
F	Special Call PTT ID Starting(BC				Ok	Cancel PTT ID Ending(EOT)			

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 \rightarrow Channel \rightarrow 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

DJ 2Tone						×	
Encode		Deco	de				
1st Tone Duration[s] 0.	.5 🔻	NO.	1st Tone Frequency[Hz]	2nd Tone Frequency[Hz]	Name		
2nd Tone Duration[s] 0.	.5 💌	1 2	300.0	400.0		_	
Long Tone Duration[s]	.0 🔻	3					
Gap Time[ms] 1(• 000	5					
Auto Reset Time[s]	0.0 🔻	7					
🔽 Side Tone		8 9					
		10 11					
		12 13				•	
Ok Cancel							

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 - 10S2nd Tone Duration: 0.5S - 10SLong Tone Duration: 0.5S - 10SGap Time: 0S - 2000SAuto Reset Time: 0S - 25S

Go to Decode to set the decode tone.

Э.	2Tone	2				×
Ĺ		Encode		Decode		
	NO.	1st Tone Frequency[Hz]	2nd Tone Frequency[Hz]	Decoding Response	Name	-
	1	300.0	400.0	Beep Tone		
	2					
	3					

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 notification to the receiver when tone is decoded.

4. DTMF Setting

DJ DTMF				×
DTMF Transmitting Time	50Millisecond 🗸	[DTMF	Encode
DTMF Self ID	134		M1	123
DTMF Interval Character	A		M2	
Group Code	в		MЗ	
Decoding Response	Beep Tone	•	M4	
First Digit Time[ms]	200 👻	_	M5	
Pretime[ms]	500 -		M6	
Auto Reset Time[s]	10.0 🔹		M7	
Time-Lapse After Encode[ms]	200 🔻		M8	
PTT ID Pause Time[s]	Off 🔹		M9	
D Code Pause			M10	
			M11	
Side Tone			M12	
PTT ID			M13	
PTT ID Starting(BOT)			M14	
1234			M15	
PTT ID Ending(EOT)			M16	
				Please Input 0~9,A,B,C,D,*,#
Remotely Kill				Special Call(<u>S</u>)
33				
Remotely Stun 44				<u>O</u> K <u>C</u> ancel

To set DTMF as an optional signal for the current analog channel, go to Public \rightarrow Channel \rightarrow 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

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.