

PC Software Guidance

For ALINCO
Portable DJ-D15/45E

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1 Preface

This instruction applies on ALINCO DMR Terminals, including DJ-D17/47MK2, DR-D18/48H, RS-D7/8.

Before you start programming, please make sure that you will have followings:

- 1. Working ALINCO brand radio terminals DJ-D15/45E.
- 2. ALINCO PC software "DJD15 D45 Clone Utility V4.36.exe"
- 3. Correct programming cable.
- 4. Windows 7,8 and 10 OS PC or laptop.

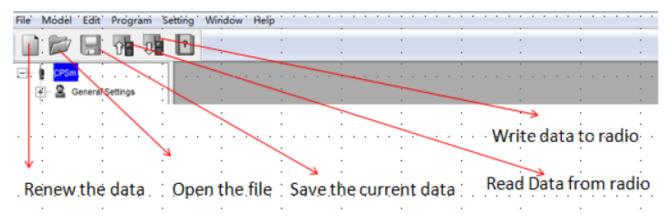
2 PC Software & USD Driver installation

- 1) Double click the programming software to start to install it
- 2) Keep clicking next to finish the installation



3 General Settings

4.1 Menu instruction

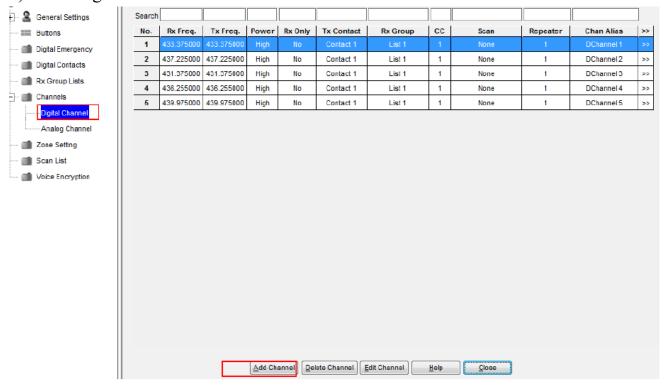


4.2 Programming a channel and a Zone

Program a channel

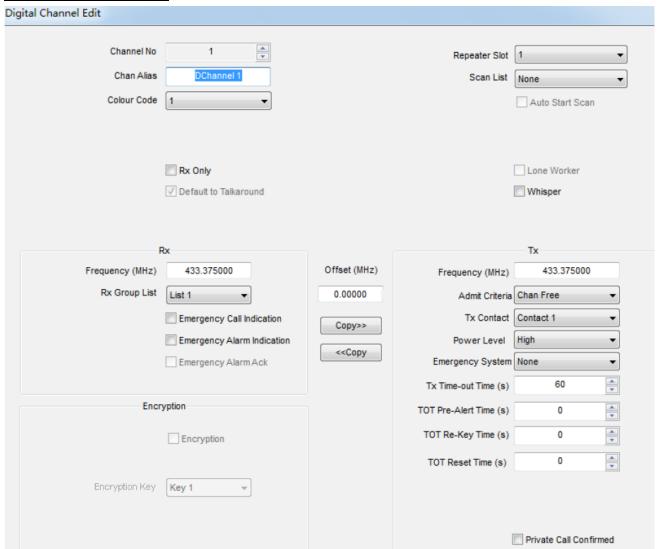
Please follow the following steps to program a channel.

1) Add a digital channel





Digital Channel Edit



Repeater Slot:

Radios or Groups that need to talk together must be assigned to the same frequency and time slot.

Colour Code

Different color codes are used to identify different systems. Radios and repeaters that need to communicate with each other must be assigned to the same cc

Scan List

All the channels on select scan list will be scanned during scan operation.

Rx Group List:

Associates any available RX Group list to the channel for reception. The user can listen to any Group in this list when there is any activity on it and talk back within the Group



Call hang time.

Admit Criteria:

Defines the transmit criteria when channel is busy.

Always Allow: The radio can transmit at any time when PPT press. It don't care channel is free or busy now.

Channel Free:

When radio can transmit only when channel is free. Color code free: When channel is busy, the radio can transmit only when the color code is different with itself.

Tx Contact

This option defines the call that may be initiated on the channel by pressing the Pushto-Talk (PTT) button

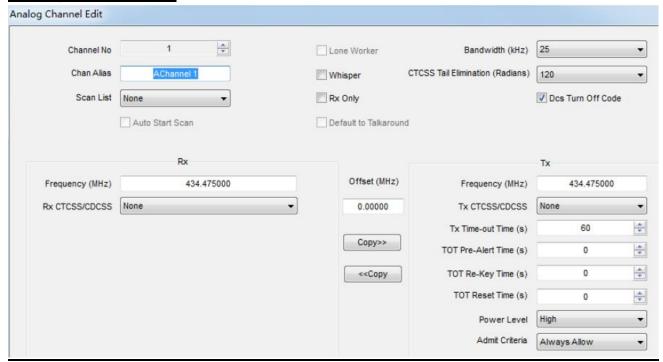
Emergency system:

Associates any available digital emergency system to this channel for use during an emergency.

Encryption key: Selects encryption key on the channel, the related key, please refer to encryption setting. Here only can be clicked after you enable encryption in Voice encryption interface. DJ-D15E/D45E is using ARC4 40 bits encryption standard.



Analog Channel Edit



QT/DQT:

This is the designated frequency received when a QT/DQT encode and decode on this channel. The qt/dqt frequency is modulated into the carrier frequency during transmission.

Admit Criteria:

Defines the transmit criteria when channel is busy. Always Allow: The radio can transmit at any time when PPT press. It don't care channel is free or busy now.

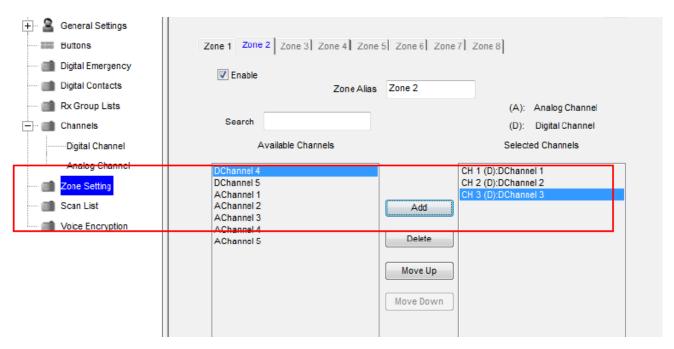
Channel Free: When radio can transmit only when channel is free. CTC/DCS: When channel is busy, the radio can transmit only when the color code is matched with itself.



Add channel to Zone

Note, Only edited the channels which have add to a zone, it can be select by channel knob in that zone.

After you edit channel, please enter to zone edit interface, enter to a zone. Selects the channels from left box to right box, then you can select these channels in the zone.



In the Button setting, you can configure a button to zone select. By press this button, you can switch zones. The zone channel will be heard when you press the button.



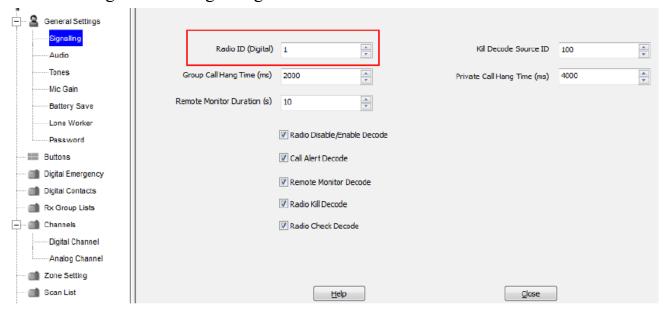


4.3 Programming a Digital Call

For a digital voice call, you should program a radio ID, contact list, RX group, and digital channel information.

1) Step1: You should program a radio ID for your radio.

Radio ID: For digital call, each radio must be defined a unique ID for it. The radio ID can be set in general setting. Range: 1 to 16776415.

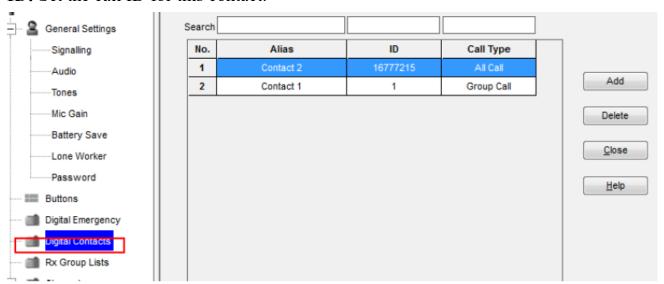


2) Step2: You should program the contacts you will use for you radio. Please program contacts in digital contact.

Contact Name: This displays the name of this contact.

Call Type: Select the call type.

ID: Set the call ID for this contact.





3) Step3: You should program the RX group list. Rx group list option is used to program the group calls which can be received on the channel.

Available Groups:

Display all the group contacts which you have pre-programmed in digital contacts.

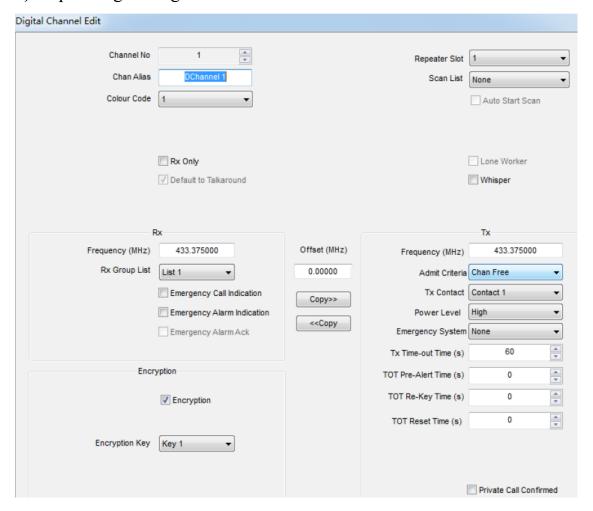
Group List Name: You can program a Alias for this rx group list.

Selected Group: Lists all Digital Groups which the radio is a member of (or subscribed to) on channels which the list is attached to. When the channel selected has this list attached, if the radio receives a group call that is addressed to any one of its subscribed groups, the radio will participate in that group call (i.e. it will unmute for incoming transmissions and talkback when the PTT is pressed).





4) Step4: Program digital channels. Please refer to channel edit.





4.4 Programming a Emergency Call

For digital emergency call, you should program emergency call type and features in emergency dialog, and you should enable emergency system in channel edit.

1) Define emergency options. You should select revert channel to selected or a designed channel to enable the current digital system. Please refer to following to see the explanation for each option.

System Alias: Set an alias for current emergency system.

Alarm Type: An alarm is a non-voice signal that triggers an alert indication on another radio. This feature specifies the behavior of the initiating radio's alarm when the emergency button is pressed.

Regular: The radio transmits an alarm signal and provides audio and visual indication that it is in Emergency mode.

Silent: The radio transmits an alarm signal but gives no audio or visual indication that it is in Emergency mode. In addition, it will not unmute to any received audio.

Silent w/ Voice: The radio transmits an alarm signal but gives no audio or visual indication that it is in Emergency mode. The radio then unmutes to qualified channel activity.

Alarm Mode: Defines the radio's behavior when the radio's emergency button is pressed.

Emergency Alarm: The radio sends an emergency alarm and exits the emergency mode. This alarm is a non-voice signal that triggers an alert indication on another radio.

Emergency Alarm w/ Call: An emergency alarm is sent, after which an emergency call can be transmitted by pressing the Push-To-Talk (PTT) button.

Emergency Alarm w/ Voice to Follow This option enables the Hot Mic feature, allowing for the programming of the Hot Mic related features, i.e. Hot Mic Duration. An emergency alarm is sent and the microphone is activated for an emergency call. Voice is transmitted without the need to press the Push-To-Talk (PTT) button

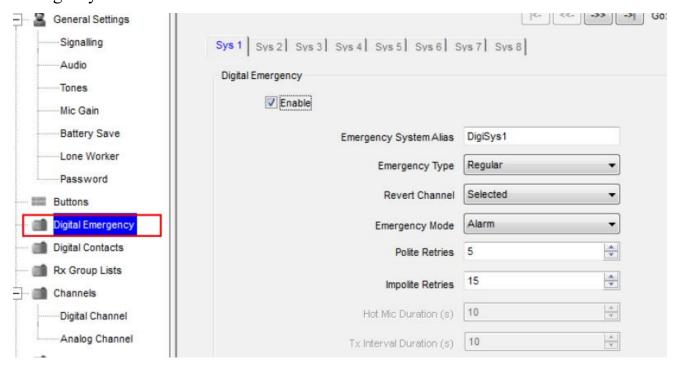
Revert Channel: This is the channel used for digital emergency alarm or voice.

Impolite Retries: An impolite transmission is a transmission that occurs even when there is activity on the current channel. The radio tries a number of impolite transmissions to get an acknowledgement and then goes on to try a number of polite transmissions. This feature sets the number of attempts to transmit an emergency alarm impolitely.

Polite Retries: A polite transmission is a transmission that occurs only when the current channel is free of activity. The radio tries a number of impolite transmissions to get an acknowledgement before trying a number of polite transmissions. This feature sets the number of attempts to transmit an emergency alarm politely.

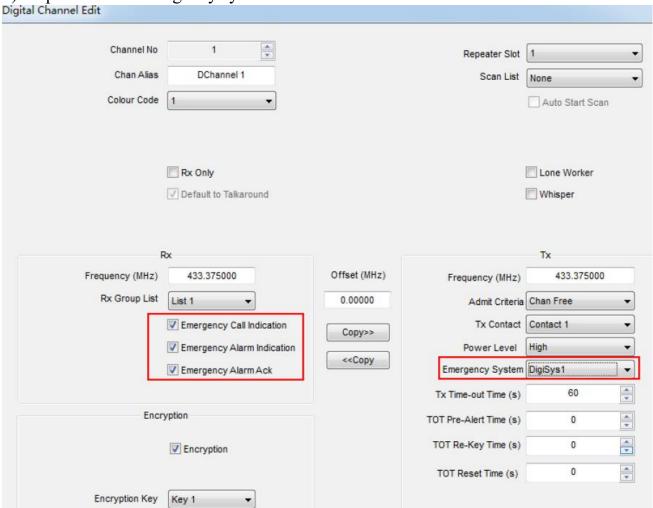


Hot Mic: Set the mic valid duration during emergency call when the Alarm mode set to Emergency Alarm w/ Voice to Follow.





2) Step 2: Enable emergency system in channel edit.

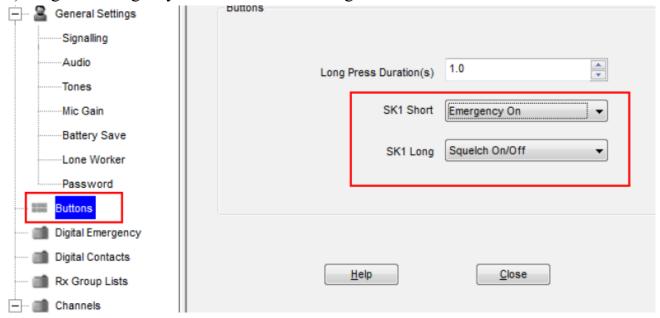


Emergency System: Associates any available digital emergency system to this channel for use during an emergency. Selecting the None option disables the user from transmitting an emergency call from this channel.

Emergency Alarm Ack: Determines if the radio is allowed to acknowledge an emergency alarm



3) Program emergency button in button setting.

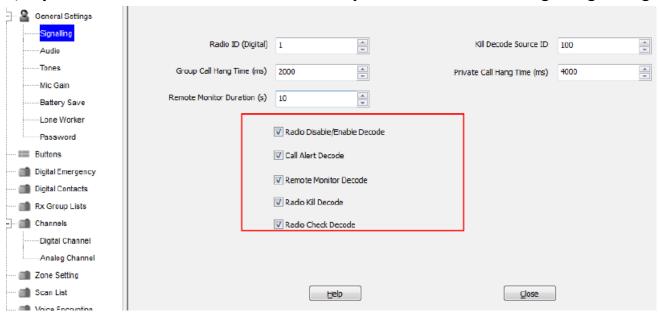




4.5 Programming a Digital Remote Call

DJ-D15/D45E allows user to receive multiple kinds of remote control calls, including radio check, call alert, remote monitor, radio enable and radio disable.

1) If you want to receive a remote control call, you should enable it in Signaling setting.

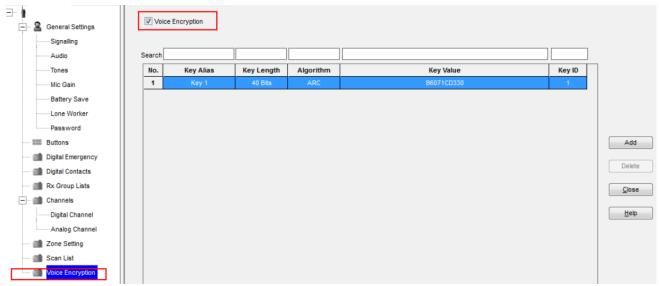




4.6 Programming the Digital Encryption

DJ-D15/D45E supports 40-bit ARC4 encryption in digital mode. For encryption function, you should program encryption list first, then enable it in channel information.

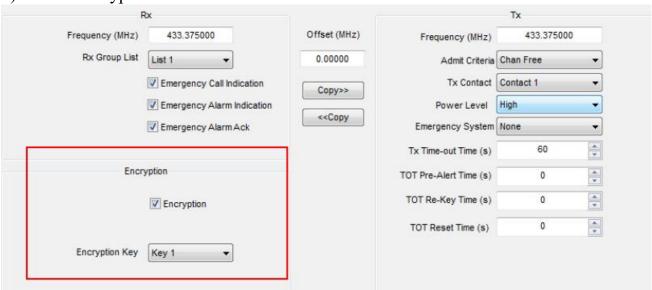
1) Program an encryption list. Please enable encryption in voice encryption interface.



No.: Privacy list No.

Key Value: Encryption key code.

2) Enable encryption in channel



Encryption: Enable encryption on current channel. You can select encryption list which has been programmed in encryption list.

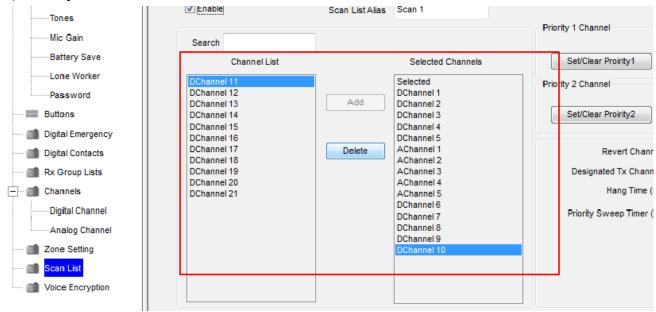
Encryption Key: Select the preset encryption list which you have programmed in encryption list.



4.7 Scan

DJ-D15E/45E supports up to 8 scan list. Each scan list supports up to 16 channels.

1) First, you should define scan features in scan list.



2) You should select the scan list you will use on a channel.

Digital Channel Edit					
Channel No Chan Alias Colour Code	DChannel 1		Repeater Slot		
	Rx Only Default to Talkaround			Lone Worker Whisper	
Rx Frequency (MHz) 433.375000		Offset (MHz)	Tx Frequency (MHz) 433.375000		
Rx Group List	List 1 ▼	0.00000	Admit Criteria		
	Emergency Call Indication	Conves	Tx Contact	Contact 1 ▼	

Scan list: Attaches a Scan List to the Channel

Auto Scan: Activates scan for this channel.

When enabled, the radio will enter to scan automatically when switch to current channel.