



# Radioddity

## GD-77 & RD-5R

### DMR Software

# Quick Start Guide

**Warning:** Resetting the radio can lead to a permanent low transmit output. Instead, we recommend writing a blank codeplug to clear the radio's memory.



# Step 1: Register for a DMR ID# and enter your DMR ID# into the radio

← → ↻ Secure | <https://register.ham-digital.org> ☆

## Registration page for Digital Voice Services.

This is a central registration system for different Digitale Voice services around D-Star and DMR for Amateur Radio.  
You may register CCS/DTMF, DMR-IDs and D-Star-Registrations from one platform.

Welcome!

- List of DMR-/CCS7-ID approvals of last 30 days: [click here](#)
- List of registered DMR-/CCS7-Users: [click here](#)
- List of registered DMR-Repeater: [click hier](#)
- List of open registration requests: [click hier](#)
- List of local admins : [click hier](#)
- Downloads: [click hier!](#)
- Information about CCS7: [click hier!](#)
- Data protection and data usage: [click hier](#)

### Step 1

Register services for an individual callsign (including private hotspots and private repeaters)

Register services for a public unattended station (repeater/gateway with special license to run 24/7 unattended)

Callsign:

Program Software

File Setting Program View Language Window About

TreeView

- RD-5R
  - Basic Information
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  - Menu
  - Number Key Assign
  - General Setting**
  - Buttons
  - Text Message
  - Privacy
  - Signaling System
  - Contact
  - Rx Group List
  - Zone
  - Channel
  - Scan
  - VFO

### General Setting

Radio Name:

Radio ID:

Tx Preamble Duration [ms]:

Rx Low Battery Interval [s]:

Monitor Type:

Private Call

Tx Inhibit Quick Key Override

Disable All LED

Program Password:

Vox Sensitivity:

Scan Mode:

Up Channel Mode:

Down Channel Mode:

Ani:

Double Wait Tx Select:

Repeater Ste:

Repeater End Delay:

# Step 2a: Enter Talkgroups into Digital Contacts (example 1: UK GB7BK)



www.tvrg.org.uk/repeaters/gb7bk/gb7bk.html

### GB7BK Talkgroups

(User Activated talkgroups are shown in red)

Timeslot	Talkgroup	Description
1	TG1	Worldwide. Use as a calling channel then use one of the user activated (UA) talkgroups (TG119
	TG119 & TG129	UA worldwide – use either of these to continue a contact.
	TG13	Worldwide English speaking. Use as a calling channel then use one of the UA talkgroups, (TG1
	TG113 & TG123	UA English speaking worldwide – use either of these to continue a contact.
	TG2	Europe. Use as a calling channel then use one of the UA talkgroups, (TG235
2	TG235	UK wide. Use as a calling channel then use one of the UA talkgroups, (TG80 - TG84
	TG80 - TG84	UK wide UA working channels. Use as a calling channel then use one of the UA talkgroups, (TG9
	TG9	Local talkgroup (secondary). Use as a calling channel then use one of the UA talkgroups, (TG2351
	TG2351	UA talkgroup, which is linked to the UA talkgroups, (TG801
	TG801	UA Regional: South East of England. Use as a calling channel then use one of the UA talkgroups, (TG810
	TG810	Regional South West of England. Use as a calling channel then use one of the UA talkgroups, (TG810
	TG810	Regional South West of England. Use as a calling channel then use one of the UA talkgroups, (TG810
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The screenshot shows the Radioddity software interface. On the left, the 'TreeView' shows a folder structure with 'Digital Contact' selected. A context menu is open over 'Digital Contact', with 'Add' selected, and a sub-menu showing 'Group Call' selected. On the right, the 'Contact' window displays a table of contacts. The table has columns for Number, Name, Call ID, Type, Ring Style, and Call Receive. The contacts listed are TG1, TG119, TG129, TG13, TG235, TG80, TG84, TG9, TG2351, TG801, and TG810. The 'Group Call' type is selected in the context menu.

Number	Name	Call ID	Type	Ring Style	Call Receive
1	TG1	00000001	Group Call	None	Off
2	TG119	00000119	Group Call	None	Off
3	TG129	00000129	Group Call	None	Off
4	TG13	00000013	Group Call	None	Off
5	TG235	00000235	Group Call	None	Off
8	TG80	00000080	Group Call	None	Off
9	TG84	00000084	Group Call	None	Off
10	TG9	00000009	Group Call	None	Off
11	TG2351	00002351	Group Call	None	Off
12	TG801	00000801	Group Call	None	Off
13	TG810	00000810	Group Call	None	Off
14	TG810	00000810	Group Call	None	Off



# Step 2b: Enter Talkgroups into Digital Contacts (example 2: USA WD6AML)

## RepeaterBook

SEARCH MAP LOCATION SUBMIT UPDATE

### Chuckwalla Mountains - WD6AML

Desert Center, CA

Repeater ID: 06-16208

Downlink: 447.9000  
Uplink: 442.9000<sup>a</sup>  
Offset: -5.0 MHz<sup>b</sup>  
Uplink Tone:

DMR Enabled

Color Code: 1  
Wide Network:  
Talkgroup Network:  
Talkgroups: [Open Talkgroup View](#)

Assignment	TG	Access
Worldwide	1	PTT
North America	3	PTT
English	13	PTT
UA English 1	113	PTT
UA English 2	123	PTT
TAC 310	310	PTT
DCI Bridge	3100	PTT
California	3106	Full-Time

### Program Software

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  - DTMF
  - Digital Contact
    - TG1
    - TG119
    - TG129
    - TG13
    - TG113
    - TG123
    - TG2
    - TG235
    - TG80
    - TG84
    - TG9
    - TG2351
    - TG801
    - TG810
    - North Americ
    - TAC 310
    - DCI Bridge
    - California

### Contact

Group Call Add Delete Clear

	Number	Name	Call ID	Type	Ring Style	Call Receive
5	5	TG113	00000113	Group Call	None	Off
6	6	TG123	00000123	Group Call	None	Off
7	7	TG2	00000002	Group Call	None	Off
8	8	TG235	00000235	Group Call	None	Off
1				Group Call	None	Off
1				Private Call	Ctrl+Alt+Enter	
1				All Call	Group Call	None
12	12	TG2351	00002351	Group Call	None	Off
13	13	TG801	00000801	Group Call	None	Off
14	14	TG810	00000810	Group Call	None	Off
15	15	North America	00000003	Group Call	None	Off
16	16	TAC 310	00000310	Group Call	None	Off
17	17	DCI Bridge	00003100	Group Call	None	Off
18	18	California	00003106	Group Call	None	Off

# Step 3: Enter Rx Group List



Program Software

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  - General Setting
  - Buttons
  - Text Message
  - Privacy
  - Signaling System
  - Contact
    - Rx Group List**
    - UK GB7BK
    - US WD6AML
  - Zone
  - Channel
  - Scan
  - VFO

Name: UK GB7BK

Member:

- 001: TG1
- 002: TG119
- 003: TG129
- 004: TG13
- 005: TG113
- 006: TG123
- 007: TG2
- 008: TG235
- 009: TG80
- 010: TG84
- 011: TG9
- 012: TG2351
- 013: TG801
- 014: TG810

Buttons: Add, Delete

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  - Signaling System
  - Contact
    - Rx Group List
    - UK GB7BK
    - US WD6AML**
  - Zone
  - Channel
  - Scan
  - VFO

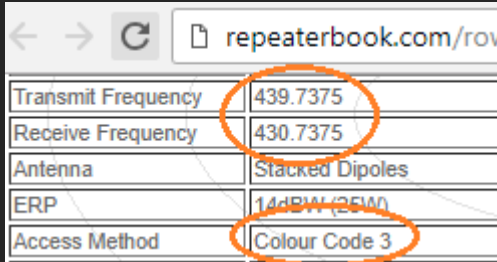
Name: US WD6AML

Member:

- 001: TG1
- 002: North America
- 003: TG13
- 004: TG113
- 005: TG123
- 006: TAC 310
- 007: DCI Bridge
- 008: California

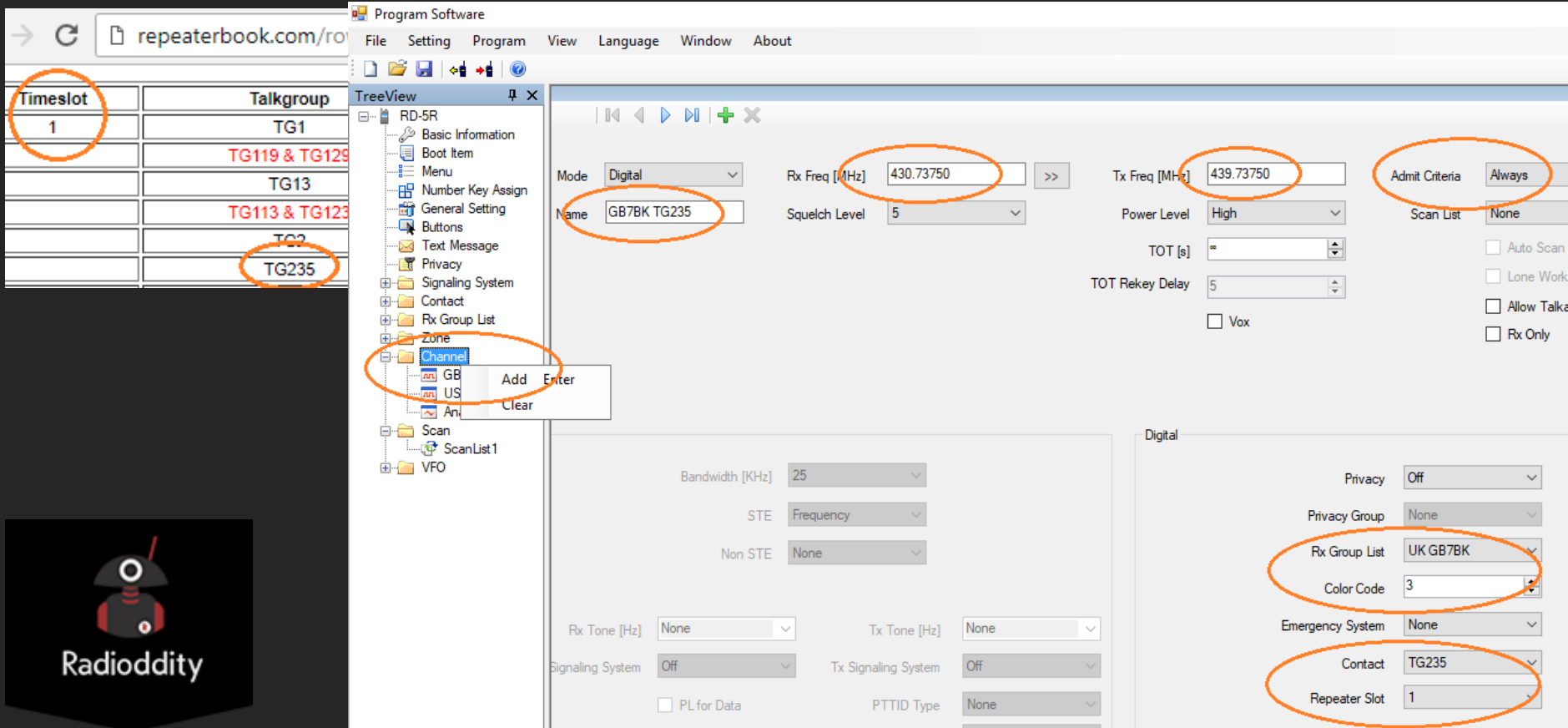
Buttons: Add, Delete

# Step 4a: Adding a DMR Repeater channel (example 1: UK GB7BK TG235, slot 1, color code 3)



Transmit Frequency	439.7375
Receive Frequency	430.7375
Antenna	Stacked Dipoles
ERP	14dBW (25W)
Access Method	Colour Code 3

*To add more Channels, use the same info, but update Channel name, Contact (TG#) and Repeater Slot.*




The screenshot shows the Radioddity software interface with several settings highlighted by orange circles:

- Timeslot:** 1
- Talkgroup:** TG235
- Mode:** Digital
- Name:** GB7BK TG235
- Rx Freq [MHz]:** 430.73750
- Tx Freq [MHz]:** 439.73750
- Admit Criteria:** Always
- Power Level:** High
- Scan List:** None
- Channel:** GB7BK (selected in the TreeView)
- Rx Group List:** UK GB7BK
- Color Code:** 3
- Contact:** TG235
- Repeater Slot:** 1

Other visible settings include: Squelch Level: 5, Power Level: High, TOT [s]: =, TOT Rekey Delay: 5, Bandwidth [KHz]: 25, STE: Frequency, Non STE: None, Rx Tone [Hz]: None, Tx Tone [Hz]: None, Signaling System: Off, Tx Signaling System: Off, Privacy: Off, Privacy Group: None, Emergency System: None, PTTID Type: None, and checkboxes for PL for Data and Rx Only.

# Step 4b: Adding a DMR Repeater channel (example 2: USA WD6AML 310, slot 1, color code 1)



MENU

## Chuckwalla Mountains - WD6AML

Desert Center, CA

Repeater ID: 06-16208

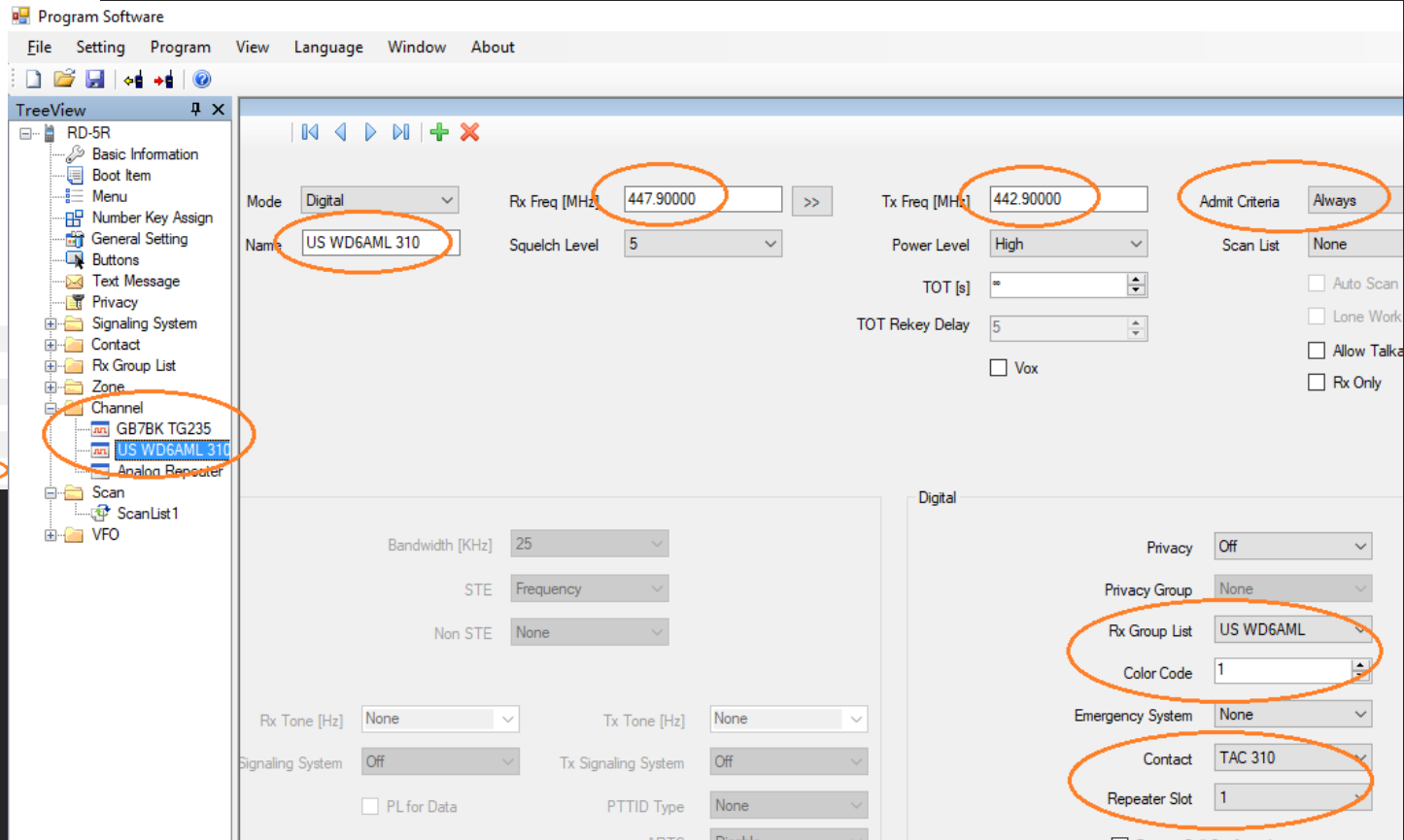
Downlink: 447.9000  
Uplink: 442.9000<sup>a</sup>  
Offset: -5.0 MHz<sup>b</sup>  
Uplink Tone:

**DMR Enabled**  
Color Code: 1

Wide Network:  
Talkgroup Network:  
Talkgroups: [Open Talkgroup View](#)

Assignment	TS	TG
Worldwide	1	1
North America	1	3
English	1	13
UA English 1	1	113
UA English 2	1	123
TAC 310	1	310

*To add more Channels, use the same info, but update Channel name, Contact (TG#) and Repeater Slot.*



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  - Text Message
  - Privacy
  - Signaling System
  - Contact
  - Rx Group List
  - Zone
  - Channel
    - GB7BK TG235
    - US WD6AML 310**
    - Analog Repeater
  - Scan
  - ScanList 1
  - VFO





# Step 4c: Adding an analog channel (example: UK GB3RU)

Program Software

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  - Boot Item
  - Menu
  - Number Key Assign
  - General Setting
  - Buttons
  - Text Message
  - Privacy
  - Signaling System
  - Contact
  - Rx Group List
  - Zone
  - Channel
    - GB7BK TG235
    - US WD6AML 310
    - Analog Repeater**
  - Scan
    - ScanList1
  - VFO

3 / 3

Mode: Analog Rx Freq [MHz]: 433.27500 Tx Freq [MHz]: 434.87500 Admit Criteria: Always

Name: Analog Repeater Squelch Level: 5 Power Level: High Scan List: None

TOT [s]: = TOT Rekey Delay: 5

Vox

Auto Scan

Lone Work

Allow Talkaround

Rx Only

Bandwidth [KHz]: 25

STE: Frequency

Non STE: None

Rx Tone [Hz]: None Tx Tone [Hz]: 118.8

Rx Signaling System: Off Tx Signaling System: Off

PL for Data

PTTID Type: None

ARTS: Disable

Digital

Privacy: Off

Privacy Group: None

Rx Group List: None

Color Code: 0

Emergency System: None

Contact: None

Repeater Slot: 1

Private Call Confirmed



# Step 5a: Setup one repeater Zone with all talkgroups (example 1: UK GB7BK, refer to Step 4a to add channels)

www.tvrg.org.uk/repeaters/gb7bk/gb7bk.html

### GB7BK Talkgroups

(User Activated talkgroups are shown in red)

Timeslot	Talkgroup	Description
1	TG1	Worldwide. Use as a calling channel then use one of the user activated (UA) talkgroups (TG119
	TG119 & TG129	UA worldwide – use either
	TG13	Worldwide English speaking
	TG113 & TG123	UA English speaking wo
	TG2	Europe. Use as a calling
	TG235	UK wide. Use as a callin
	TG80 - TG84	UK wide UA working ch
	TG9	Local talkgroup (second
	TG2351	UA talkgroup, which is li
	2	TG801
TG810		Regional South West En

Program Software

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  - Buttons
  - Text Message
  - Privacy
  - Signaling System
  - Contact
  - Rx Group List
  - Zone**
    - Add Enter
    - Clear
  - Channel
  - Scan
  - VFO

Name GB7BK

Member

- 001:GB7BK TG1
- 002:GB7BK TG119
- 003:GB7BK TG129
- 004:GB7BK TG13
- 005:GB7BK TG113
- 006:GB7BK TG123
- 007:GB7BK TG235
- 008:GB7BK TG80
- 009:GB7BK TG84
- 010:GB7BK TG801



# Step 5b: Setup one repeater Zone with all talkgroups (example 2: USA WD6AML, UK GB3RU, refer to Steps 4b,c to add channels)

Repeater ID: 06-16208

Downlink: 447.9000  
Uplink: 442.9000<sup>a</sup>  
Offset: -5.0 MHz<sup>b</sup>  
Uplink Tone:

DMR Enabled

Color Code: 1  
Wide Network:  
Talkgroup Network:  
Talkgroups:

[Open Talkgroup View](#)

Assignment	TS	TG	Access
Worldwide	1	1	PTT
North America	1	3	PTT
English	1	13	PTT
UA English 1	1	113	PTT
UA English 2	1	123	PTT
TAC 310	1	310	PTT
DCI Bridge	1	3100	PTT
California	1	3106	Full-Time

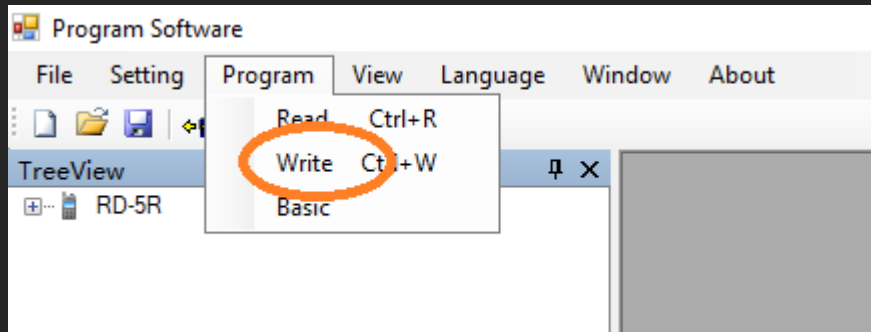


Name: Analog

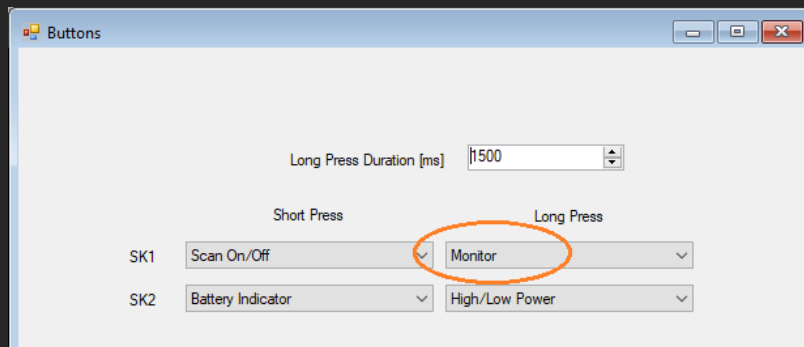
Member:

- 001:Analog Repeater

# Step 6: Upload codeplug



## Additional tips



- Monitor mode, also known as promiscuous mode, allows you to listen to all talkgroups on the same color code and repeater slot
- Warning: Resetting the radio can lead to a permanent low transmit output. Instead, we recommend writing a blank codeplug to clear the radio's memory