

## Radio Information

Radio Info

Program Password:	<input type="password" value="*****"/>
Serial Number:	<input type="text" value="000000000001234"/>
Model Code:	<input type="text" value="PR-4047DMR"/>
Model Type:	<input type="text" value="Handheld"/>
Frequency Range(MHz):	<input type="text" value="400MHz - 470MHz"/>
Software Ver:	<input type="text" value="V0.00.01"/>
Hardware Ver:	<input type="text" value="V1.00.00"/>

Programming Password: 8 Alphanumeric, case sensitive characters. The default Password is 888888.

- To change Password:
1. Connect the radio to the computer with the programming cable. Open the User Version of the software, click the “**Read**” button to Read data from the radio.
  2. Click (Tools) – (Program Password).
  3. Input the old password, input the new password. Then click (Modify Password). “Password modification success” is shown if the new modified password is successful. Once the default password has been changed to a new password, the PC Programming Software will ask for the new password to be entered during a READ or WRITE operation.

- Forgot the Password? :
- If you have forgotten the password, you can use the **Password Retrieval Program (PRP)** to retrieve the password. **Call the factory. Note:** You will need to provide the radio serial number and confirm original purchase details related to the radio.
1. Connect the radio to the computer with the programming cable. Open the PRP and setup the correct USB Port. You **MUST FIRST READ** the radio contents **BEFORE** proceeding. Specific settings are tailored on a per radio basis. Failure to READ the radio contents first will render the radio inoperative.
  2. Click (Tools) – (Factory Code) to enter “Radio Info” interface.
  3. Click “Read” button to Read the password of the radio.

**Note: The Password Retrieval Program is NOT used for normal Radio Programming Functions. Use ONLY to Retrieve and Write the following data: Forgotten Password and the Serial Number.**

Serial Number: The default serial number is : 0000001234. The serial number can be changed with and saved in the radio using the PRP programmer software.

- Change Serial Number
1. Open the *Password Retrieval Programmer*. Setup the correct Comm Port.
  2. You **MUST FIRST READ** the radio contents **BEFORE** proceeding. Specific settings are tailored on a per radio basis. Failure to READ the radio contents first will render the radio inoperative.
  3. Click (Tools) – (Factory Code) to enter “Radio Info” interface.
  4. Enter the new Serial Number in the Serial Number location.
  5. Enter the default password 888888 or new password in the Program Password location.
  6. Click the “Write” button to write the information to the radio. “Write Success” will be displayed if the Serial Number was written successfully.

Model Code: PR-4047DMR for UHF model or PR-1317DMR for VHF model  
 Model Type: Handheld Frequency Range: UHF 400-470MHz, VHF 136-174MHz  
 Software Ver: Baseband IC (SCT3258) version  
 Hardware Ver: MCU version

**Basic Setting**

The screenshot shows a 'Basic Setting' window with the following fields and values:

- Radio Name: RADIO
- Language: English
- Default Zone: Zone1
- Battery Saving Mode: 2
- Enter Battery Saver Mode Time(s): 10
- Vox Level: 3
- Radio Disable:
- Remote Monitor:
- Enable Remote Alerts:
- Remote Emergency Recall: 3

**Radio Settings**

**Radio Name:** 16 Character name

**Language:** English only

**Default Zone:** Zone radio defaults to when powered on

**Battery Saver Mode:** OFF – Power Saver Mode is not applied during the standby condition.  
 Mode 1 – Radio is on for 300ms, asleep for 200ms during standby condition.  
 Mode 2 – Radio is on for 300ms, asleep for 300ms during standby condition  
 Mode 3 – Radio is on for 300ms, asleep for 400ms during standby condition.

**Enter Battery Saver Mode Time(s):** 0-100 sec, time of no radio activity when radio enters Battery Saver Mode.

**VOX Level:** 1-5 (5 = highest) level of voice audio required to activate VOX function. VOX feature must be enabled.

**Radio Disable:** If selected, radio can be remotely disabled with KILL command. Refer to the following section: Radio Disable Function under Hot Keys.

**Remote Monitor:** The Remote Monitor command from another radio will cause the target radio to transmit without being detected by the target radio. This feature is only available in Digital Mode and the Call Type must be set to Individual Call (in the sending radio) using the receiving radio User ID. The transmitting radio and the target radio must be programmed to the same frequency and color code and Remote Monitor in the Radio Settings must be set. The Remote Monitor command is sent using a Hot Key programmed for Monitor Radio function. Once activated, the target radio will transmit “Hot Mic” for 30 seconds.

**Enable Remote Alerts:** An alerting signal can be sent to target radios with the Remote Alerts feature. It is only available in Digital Mode and the Call Type must be set for Group Call. Remote Alerts are sent using a Hot Key set for the SOS function. All radios must be programmed to the same frequency, color code, and “Emergency Call Indication” selected and have “Enable Remote Alerts” selected in the Radio Settings. This Group Call contact must be added to the RX Group List.

**Remote Emergency Recall:** This feature is related to “Enable Remote Alerts. This feature determines the number of times the Remote Alerts are re-transmitted.

## Hot Keys(1-4)


Key's Function Configuration

Key1:

Key2:

Key3:

Key4:



KEY 3  
KEY 2: PTT  
KEY 4  
NO FUNCTION  
KEY 1

Quickly Call Setting

Serial Number	Call Mode:	Call List:	Call Type:	Short Message:
1	<input type="text" value="None"/>	<input type="text" value="Contact 1"/>	<input type="text" value="Voice Call"/>	<input type="text" value="Hello!!"/>
2	<input type="text" value="None"/>	<input type="text" value="Contact 1"/>	<input type="text" value="Voice Call"/>	<input type="text" value="Hello!!"/>
3	<input type="text" value="None"/>	<input type="text" value="Contact 1"/>	<input type="text" value="Voice Call"/>	<input type="text" value="Hello!!"/>
4	<input type="text" value="None"/>	<input type="text" value="Contact 1"/>	<input type="text" value="Voice Call"/>	<input type="text" value="Hello!!"/>
5	<input type="text" value="None"/>	<input type="text" value="Contact 1"/>	<input type="text" value="Voice Call"/>	<input type="text" value="Hello!!"/>

## Hot Keys(1-4)

- Hot Key2 - Is permanently set to PTT Call and cannot be changed.  
 No Function Hot Key - Cannot be configured at this time.

### Key's Function Configuration

- None: No function is assigned to button  
 SOS: Press the button to send alerting signal in the Remote Alert function.  
 PTT Call: Press the button to activate the radio transmitter, release to return to receive mode.  
 VOX (On/Off): Press the button to switch the VOX function On and Off.  
 TX Power: Press the button to switch between Low and High transmit power.  
 Monitor: Press the button to hear any radio transmissions on the selected channel. Analog Mode only.

**Radio Disable:** The Radio Disable command from another radio will cause the target radio to stop transmitting and receiving. This feature is only available in Digital Mode and the Call Type must be set to Individual Call using the target radio User ID. The transmitting radio and the target radio must be programmed to the same frequency and color code and "Radio Disable" in the Radio Settings must be set. The Radio Disable command is sent using a Hot Key programmed for the Radio Disable function. Once activated, the target radio will no longer transmit and receive.

**Activate Radio:** The Activate Radio command from another radio will allow the disabled target radio to start transmitting and receiving. This feature is only available in Digital Mode and the Call Type must be set to Individual Call using the target radio User ID. The transmitting radio and the target radio must be programmed to the same frequency and color code and "Activate Radio" in the Radio Settings must be set. The Activate Radio command is sent using a Hot Key programmed for the Activate Radio function. Once activated, the target radio will be able to transmit and receive.

**Zone Switch:** If both Zones are programmed with active channels, press the Zone Switch button to identify the current Zone. Press quickly again to change Zones. Zone 1 = 1 Beep, Zone 2 = 2 Beeps.

**Monitor Radio:** Press the button to cause target radio to transmit "Hot Mic" condition. See Remote Monitor.  
**Talk-Around (On/Off):** When enabled, and the TX and RX frequency are different for Repeater Operation, the TX frequency will be automatically changed to match the RX frequency when transmitting.

**Radio Check:** The Radio Check command from another radio can check the target radio for power on or off status. This feature is only available in Digital Mode and the Call Type must be set to Individual Call using the target radio User ID. The transmitting radio and the target radio must be programmed to the same frequency and color code. The Radio Check command is sent using a Hot Key programmed for the Radio Check function. After pressing the Radio Check button, if the target radio is powered on, the LED on the transmitting radio will flash GREEN. If the target radio is powered off, the LED will flash RED and emit a double beep.

**Scan (On/Off):** Press the button to switch the Scan function On or Off.

**Quickly Call 1:** Press the button and then press the PTT button to transmit the programmed DMR Call.  
**Quickly Call 2:** Press the button and then press the PTT button to transmit the programmed DMR Call  
**Quickly Call 3:** Press the button and then press the PTT button to transmit the programmed DMR Call  
**Quickly Call 4:** Press the button and then press the PTT button to transmit the programmed DMR Call  
**Quickly Call 5:** Press the button and then press the PTT button to transmit the programmed DMR Call

### **Quickly Call Setting**

**Serial Number:** 1-5, Denotes Quickly Call #.

**Call Mode:** None, no call function. DMR Call, pressing the assigned button and then pressing the PTT button will send a DMR Call determined by the Call List and Call Type set-up.

**Call List:** None or Contact # selection to receive the Voice Call or Message Call.

**Call Type:** Voice Call, pressing the assigned button and then pressing the PTT button will call the Contact as set-up in the Call List.

**Message Call:** Pressing the assigned button and then pressing the PTT button will send the Short Message to the Contact as set-up in the Call List.

**Short Message:** Alpha-numeric message up to 40 characters.

Note: Quickly Call is only available in DMR Mode.

## Tone - Tones

Tones	LED/Backlight
Mute All Tones: <input type="text" value="Mute On"/>	TX LED: <input checked="" type="checkbox"/>
Digital Individual Call: <input checked="" type="checkbox"/>	RX LED: <input checked="" type="checkbox"/>
Digital Group Call Tone: <input checked="" type="checkbox"/>	Change Channel LED: <input checked="" type="checkbox"/>
Analog Call Tone: <input type="checkbox"/>	Start Up LED: <input checked="" type="checkbox"/>
Clear to Talk Tone: <input checked="" type="checkbox"/>	Call Hang Up LED: <input checked="" type="checkbox"/>
Keypad Tone: <input checked="" type="checkbox"/>	
Power On Tone: <input checked="" type="checkbox"/>	
Channel ID Tone: <input checked="" type="checkbox"/>	
Error Tone: <input checked="" type="checkbox"/>	
Message Call Sent Tone: <input checked="" type="checkbox"/>	
Message Call Failed Tone: <input type="checkbox"/>	
Message Call Received Tone: <input checked="" type="checkbox"/>	
Low Battery Alerts: <input checked="" type="checkbox"/>	
Low Battery Detect Duration[s]: <input type="text" value="8"/>	
Remote Alerts[s]: <input type="text" value="5"/>	

### Tone - Tones

- Mute All Tones:** Mute On, will disable all tone notification types. Mute Off, enables all tone notifications as selected.
- Digital Individual Call:** When enabled and transmitting or receiving an Individual Call, a high tone “beep” is heard in the speaker of the radio.
- Digital Group Call Tone:** When enabled and transmitting or receiving a Group Call, a high tone “beep” is heard in the speaker of the radio.
- Analog Call Tone:** When enabled and transmitting or receiving a signal in Analog Mode, a high tone “beep” is heard in the speaker of the radio.
- Clear to Talk Tone:** When enabled, at the end of a received transmission, a low tone “beep” will be heard in the speaker indicating that the user may transmit a response.
- Keypad Tone:** When enabled and pressing any Hot Key, a high tone “beep” is heard in the speaker of the radio.
- Power On Tone:** When enabled and powering on the radio, a three tone “beep” is heard in the speaker.
- Channel ID Tone:** When enabled, Channel # and radio mode are announced and heard in the speaker.
- Error Tone:** This tone is activated when the radio has exceeded the preset TX Timeout Timer(TOT).
- Message Call Sent Tone:** When enabled, pressing the assigned Hot Key to transmit a Message Call, a fast double “beep” is heard in the speaker.
- Message Call Received Tone:** When enabled and receiving a Message Call, a fast double “beep” is heard in the speaker.
- Low Battery Alerts:** When enabled and battery has reached the low battery level, the two tone error tone is heard in the speaker.
- Low Battery Detect Duration(s):** The interval time the radio checks for the low battery condition.
- Remote Alerts:** Duration of time for the alerting tones.

## **LED/Backlight**

TX LED:

When enabled and the PTT button is pressed, the LED will light RED.

RX LED:

When enabled and receiving a valid signal, the LED will light GREEN. When receiving an invalid signal the LED will light ORANGE.

Change Channel LED:

When enabled and rotating the Channel Knob, the LED will light ORANGE.

Starting-Up LED:

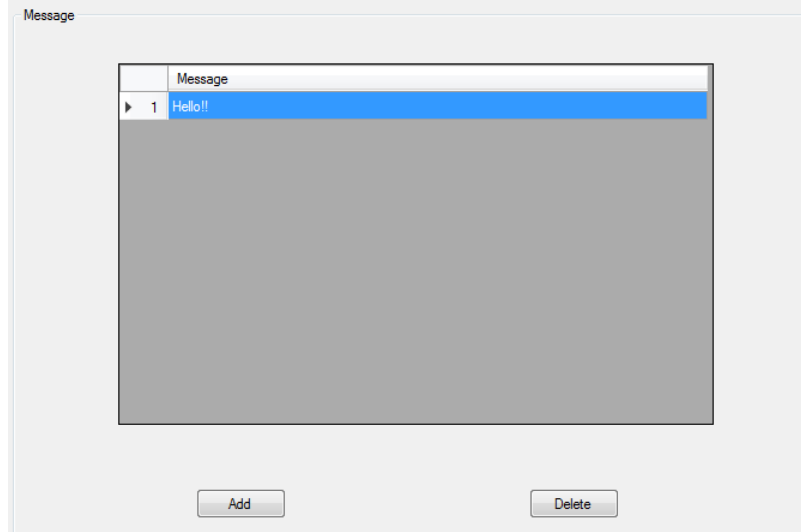
When enabled and powering on the radio, the LED will light ORANGE.

Call Hang Up LED:

When enabled and operating in DMR Mode, after releasing the PTT, the LED will light ORANGE in the transmitting radio and the receiving radio to indicate that the transmission is finished.

## **Message**

**Notes: The PR Series radio can transmit pre-defined Messages to other DMR radios featuring a display.**



## **Message**

Messages can be up to 40 characters long and are used for a Message Call in the Quickly Call feature.

## Zone

Zone Name

Notes: Radio is capable of up to 2 Zones (Zone=16 channels). To ADD a Zone, move cursor to blank Zone tab area on the left then Right-Click, ADD box will appear, click ADD.

Channel List

Available Channel		Channel Members	
Name			Name
Analog Channel1		▶ 1	Digital Channel1
Mixed Channel1			

## Zone

Up to two Zones can be used. Each Zone can consist of up to 16 Channels each.

The Available Channels are created in the Digital Channel and Analog Channel Sections.

Each Zone is created by selecting channels from the Available Channel List and use the Add }} button to add the selected channel to the Channel Members List. To remove a channel from the Channel Members List to the Available Channel List, select the undesired channel and press the {{ Remove button.

**Note:** To add a Mixed Zone, right click in the Zone space on the right side of the page.

## Digital Channel

## Digital Channel

Up to 32 Channels (Digital, Analog, Mixed) can be programmed.

To create a Digital Channel, right click your mouse in the Digital Channel space on the left side of the page.

To program a Digital Channel, click on the Digital Channel Icon of the desired Digital Channel#.

Digital Channel#:	Channel name up to 16 characters
Vocoder:	AMBE+2, Vocoder used in PR-Series Radio
Slot: Default Slot is 1.	When using TDMA Direct Mode or Repeater Operation, Slot 1 or Slot 2 is available for use.
TDMA Direct Mode:	OFF = TDMA Direct Mode is disabled.

### SDI

(Source Dynamic Identifier): The Level or Role assigned to a radio in a wide area TDMA radio system.

SDI Level 1:	The radio does not take a role of correcting channel slot timing.
SDI Level 2:	The radio is appointed as a channel slot timing correction leader but can accept another higher level leader.
SDI Level 3:	The radio is appointed as a channel slot timing correction leader in priority and sets the channel slot timing.
Scan List:	Select a list from available Scan Lists.

### Table Frequency

List (MHz): Ritron Table Frequencies, 109 UHF, 27 VHF. When selected, the frequency will be automatically placed in both the TX and RX Frequency location.

VOX: When enabled, allows the user to transmit to other users without pressing the PTT button. Feature to be used with radio only, not with optional audio accessories.

RX Only: When enabled, disables the transmitter and only receives signals on the programmed RX frequency.

### Enable

Auto Scan: When enabled, the radio will automatically begin scanning the channels found in the selected Scan List.



## **Encryption**

Encryption: When Enabled, allows the radio to operate in Encryption Mode on the selected channel.

### Basic Secret

Key: Programmed Encryption Key is used to scramble and unscramble voice and data transmissions on the Encrypted Channel.

## **TX**

TX Frequency (MHz): The transmit frequency for the current channel.

TX Contacts: Transmit Contacts selected from Contact List in Digital Server, specifies Call Type (Individual, Group, or All Call) and associated ID.

TX Power Level: Set the output power on the channel to Low (2W) or High (4W UHF, 5W VHF).

### Busy Channel Lockout:

TX Allow: When the PTT is pressed, the radio will transmit even if the channel is already in use.

Channel Idle: The radio will transmit only when the channel is idle i.e. no radio traffic.

CC (Color Code) Idle: The radio can transmit if the channel is Idle. If the channel is Busy (in use), the radio will transmit if the detected color code is different. If the color code is the same, the radio will not transmit.

### TX Timeout

Timer(sec): No Limitation, 30, 60, 90, 120. The maximum time that the radio can transmit continuously.

### TX Timeout

Recovery(sec): 0-100 Time after TX Timeout Timer elapses before the radio can begin transmitting.

### Individual Call

Confirm: An Individual Call confirmation request is sent before an Individual Call is initiated. This feature is only available in Digital Mode and an Individual Call Type is required. The receiver will decode and confirm the individual call request and then automatically send it back to the transmitter to establish a voice call.

### Repeater Operation

Enable: When Enabled and provided TX and RX frequencies are programmed correctly, the radio will operate with a DMR Repeater.

## **RX**

RX Frequency (MHz): The receive frequency for the current channel.

RX Group List: List of valid Group #'s selected from available RX Group Lists.

Emergency Call Indication: Emits a tone when receiving an Emergency Call.

## Analog Channel

Analog Channel

Analog Channel: Analog Channel1

Analog Bandwidth: 12.5KHz

Tail Degree: 180°

Scan List: None

Table Frequency List(MHz): None

VOX:  RX Only:

Auto Scan:

**Notes: To ADD a channel, move cursor to blank channel tab area on the left and then Right-Click, ADD box will appear, click ADD.**

**TX**

TX Frequency(MHz): 136

TX Voice Type: Voice Only

Custom Sub Audio Enable:

TX CTCSS: 63

TX DCS: 017

TX Power Level: High

Busy Channel Lockout: TX Allow

TX Timeout Timer(s): No Limitation

TX Timeout Recovery(s): 0

**RX**

RX Frequency(MHz): 136

RX Voice Type: Voice Only

Custom Sub Audio Enable:

RX CTCSS: 63

RX DCS: 017

RX Squelch Level: 1

## Analog Channel

Up to 32 Channels(Digital, Analog, Mixed) can be programmed. To create an Analog Channel, right click your mouse in the Analog Channel space on the left side of the page. To program an Analog Channel, click on the Analog Channel Icon of the desired Analog Channel#.

- Analog Channel:** Channel name up to 16 characters
- Analog Bandwidth:** Sets the channel bandwidth to Narrowband 12.5kHz
- Tail Degree:** Degree of Phase Reversal of the CTCSS Tone for Squelch Tail Elimination.
- Scan List:** Select a list from available Scan Lists.
- Table Frequency List (MHz):** Ritron Table Frequencies, 109 UHF, 27 VHF. When selected, the frequency will be automatically placed in the TX and RX Frequency location
- VOX:** When Enabled, allows the user to transmit to other users without pressing the PTT button.
- RX Only:** When Enabled, disables the transmitter and only receives signals on the programmed RX frequency.
- Auto Scan:** When Enabled, the radio will automatically begin scanning the channels found in the selected Scan List.

### TX

**TX Frequency (MHz):** The transmit frequency for the current channel. To communicate with other radios in your system they must have the same CTCSS or DCS codes.

**TX Voice Type:** Voice only or Voice w/CTCSS or Voice w/DCS or Voice w/ inverted DCS.

### Custom

**Sub-Audio Enable:** When enabled, any CTCSS Tone between 50-300Hz may be entered. For DCS or Invert DCS, any Code from 000-777 may be entered.

**TX CTCSS:** Standard list of encoded CTCSS sub-audible tones for private communication.

**TX DCS:** Standard list of encoded DCS codes for private communication.

**TX Power Level:** Transmitted Power level, Low (2W VHF/UHF), High (VHF 5W, UHF 4W).

Busy Channel Lockout:  
TX Allow: When the PTT is pressed, the radio will transmit even if the channel is Busy (in use).  
Channel Idle: The radio will only transmit when the channel is Idle i.e. no radio traffic.  
CTCSS/DCS Match: The radio can transmit if the received CTCSS or DCS code matches.  
CTCSS/DCS No Match: The radio will not transmit If the CTCSS/DCS codes do not match.  
TX Timeout Timer(sec): No Limitation or 30, 60, 90, 120. The maximum time that the radio can transmit continuously.  
TX Timeout Recovery(sec): 0-100. Time after TX Timeout Timer elapses before the radio can begin transmitting.

## **RX**

RX Frequency (MHz): The receive frequency for the current channel. To communicate with other radios in your system they must have the same CTCSS or DCS codes.

RX Voice Type: Voice Only or Voice w/ CTCSS or Voice w/ DCS or Voice w/ inverted DCS.

### Custom

Sub-Audio Enable: When enabled, any CTCSS Tone between 50-300Hz may be entered.  
For DCS or Invert DCS, any Code from 000-777 may be entered.

RX CTCSS: Standard list of decoded CTCSS sub-audible tones for private communication.

RX DCS: Standard list of decoded DCS codes for private communication.

RX Squelch Level: Squelch threshold of the received transmission. As the level is increased, the squelch threshold is increased, requiring a stronger signal to unmute the squelched audio.

## Mixed Channel

Mixed Channel

Mixed Mode Channel Name:

Selected Digital Channel:

Selected Analog Channel:

Mixed Mode Channel Hang Time(s):

Mixed Mode Channel Transmit Mode:

Notes1: To add a mixed-channel, move cursor to blank mixed-channel tab area on the left and Right-Click, ADD box will appear, click on ADD.

Notes2: A Mixed Channel receives both Analog and Digital mode signals on the same frequency. If the user responds before the Mixed Mode Channel Hang Time expires, the radio will transmit at the same mode it received. If the Mixed Mode Channel Hang Time has expired, then the radio will transmit in the mode defined by the Mixed Mode Channel Transmit Mode.

Notes3: Analog channels (both TX/RX) MUST HAVE a Sub-Audible or DCS tone selected.

## Mixed Channel

Up to 32 Channels (Digital, Analog, Mixed) can be programmed. To create a Mixed Channel, right click your mouse in the Mixed Channel space on the left side of the page.

To program a Mixed Channel, click on the Mixed Channel Icon of the desired Mixed Channel#.

Mixed Mode Channel Name: Channel name can be up to 16 alphanumeric characters.

Selected Digital Channel:

Sets the desired received Digital Channel. Select from all available programmed Digital Channels.

Selected Analog Channel:

Sets the desired received Analog Channel. Select from all available programmed Analog Channels.

Mixed Mode Channel Hang Time(s):

Sets the duration (seconds) the radio is in Mixed Mode After a received call. During this time, the radio will transmit in the same Mode as was received. After this time, the radio will transmit in the Mode selected for Mixed Mode Channel Transmit.

Mixed Mode Channel Transmit Mode:

Sets the transmit mode of the Mixed Channel when initiating/transmitting a call.

Note 1: For Mixed Mode Operation the Analog Channel must be programmed with CTCSS or DCS code.

Note 2: To add a Mixed Channel, right click in the Mixed Channel space on the right side of the page.

## Digital Server

Basic Setting	
Own ID:	00000001
Group Call Maintain Time(s):	3
Individual Call Maintain Time(s):	3
OACSU Waiting Time(s):	1
Resend Times of OACSU Failed:	3
Message Call Waiting Time(s):	1
Resend Time After Message Call Failed:	3
Voice Delay(ms):	0
Feature ID:	0
Preload Voice Head Frame:	1
Response Lead Frame:	3
Confirm Lead Frame:	3

### **Basic Setting**

**Unit ID:** Individual ID that uniquely identifies the radio. This ID is used by other radios when addressing this radio when making an Individual Call or sending a Short Message.

#### **Group Call**

**Maintain Time(s):** When a Group Call is received, the time the radio can transmit back in Group Call Mode after the received Group Call is complete.

#### **Individual Call**

**Maintain Time(s):** When an Individual Call is received, the time the radio can transmit back in Individual Call Mode after the received Individual Call is complete.

#### **OACSU**

**Waiting Time(s):** Duration of time for a radio to receive a confirmation of an Individual Call. Individual Call Confirm must be programmed for this feature.

#### **Resend Times**

**of OACSU Failed:** Sets the number of retries of Off Air Call Set-Up (OACSU). Number of attempts when confirmation of the Individual Call is not received. Individual Call Confirm must be programmed for this feature.

#### **Message Call**

**Waiting Time(s):** Duration of time to receive confirmation of a Short Message Call. Individual Call Confirm must be programmed for this feature.

#### **Resend Time**

**After Message Call Failed:** Sets the number of retries of the Short Message Call. that the transmitting radio attempts when a confirmation of the Short Message Call is not received from a radio programmed with Individual Call Confirm.

**Voice Delay (msec):** Sets a delay after the PTT is pressed before transmitting a Voice Call.

**Feature ID:** Default value is set to "0". This is the location in the DMR Protocol reserved for the Manufacturer's ID as set by the ETSI DMR Specification.

### Preload Voice

#### Head Frame:

Digital Mode Only, a string of bits added to the front of the voice header before transmitting the 1<sup>st</sup> frame of the Voice Call, and reduces the chance of the voice header being missed by the receiving radio.  
This setting is useful in scanning - as the number of channels being scanned are increased, this duration should also increase.

### Response

#### Lead Frame:

Digital Mode Only, a string of bits added to the front of the response (ACK) before transmitting, and reduces the chance of the response being missed by the receiving radio.  
This setting is useful in scanning - as the number of channels being scanned are increased, this duration should also increase.

### Confirm

#### Lead Frame:

Digital Mode Only, a string of bits added to the front of the confirmation before transmitting the 1<sup>st</sup> frame of the confirmation, and reduces the chance of the confirmation being missed by the receiving radio.  
This setting is useful in scanning - as the number of channels being scanned are increased, this duration should also increase.

## Contact List

Notes1: PR Series radio is capable of a total of 48 Contacts radio-wide, 5 RX Groups. Each RX Group can have any combination of 15 Contacts.

Notes2: To ADD a Contact, Click ADD, to Delete, Click Delete

Contact List

Call Name	Call Type	Call ID
Contact1	Group Call	00000001

Add Delete

## Contact List

Contacts provide “address-book” capabilities and establishes a list of Call ID’s for Digital Call users. Each Contact corresponds to a Call Name or Call ID. You can initiate a Call with one of three call types (Group Call, Individual Call, All Call). Each are defined below:

Group Call ID: ID of the Group the user wishes to subscribe to.

Individual Call ID: Radio ID of the target radio.

All Call ID: Fixed ID of 16777215

Call Name: Alias for the selected Contact. Up to 16 alphanumeric characters.

#### Call Types:

- Individual Call: call from a user to another specific user.
- Group Call: call from a user to a specific group of users.
- All Call: call from a user to all users on a channel programmed to a specific frequency.

Call ID: Sets the ID for a particular Call Type.

## RX Group List

RX Group Name:

Notes1: To ADD a RX Group, move cursor to blank RX Group List tab area on the left and Right-Click, ADD box will appear, click on ADD.

Notes2: PR Series radio is capable of a total of 48 Contacts radio-wide, 5 RX Groups. Each RX Group can have any combination of 15 Contacts.

RX Group List

Available Contact:	
Name	

Group Member:	
Name	
Contact 1	<input type="checkbox"/>

## RX Group List

RX Group Name: Sets the name for the Group List. Up to 16 Alphanumeric characters.

Note: To add an RX Group List, right click in the RX Group List space on the right side of the page.

Up to 5 RX Group Lists may be created.

Available Contact: List shows all available Contacts programmed as a Group Call.

Group Member: List shows all Contacts in the RX Group List. Contacts can be removed from the list by selecting the Contact and clicking "Remove".

Contacts can be added to the RX Group List by selecting the Contact in the Available Contact List and clicking "Add".

## Scan List

Scan List Name:

Scan TX Mode:

Scan Resume Delay(s):

**Notes: To ADD a Scan channel, move cursor to blank Scan list tab area on the left and Right-Click, ADD box will appear, click on ADD.**

Scan List

Channel Type:		Member:	
Name		Name	
Analog Channel1		Digital Channel1	
Mixed Channel1			

## Scan List

- Scan TX Mode: Sets the TX Channel when in Scan Mode.
- Current Channel: When PTT is pressed, the radio will transmit on the channel indicated by the channel selector.
- Last Active Channel: When PTT is pressed, the radio will transmit on the last channel received.
- Scan Resume Delay(s): Time duration for Scanning to resume after a transmission has been received and the radio is in standby mode.