

6.1 Digital Simplex Repeater Function

The Digital Simplex Repeater feature enables the DMR-6X2 to act as a Store and Forward Simplex Repeater. In this mode, the radio records a transmission, stores it, and then retransmits the recorded audio on the same frequency after the incoming signal ends. The DMR 6X2 can also perform Cross Band repeats between VHF and UHF frequencies.

Possible repeat combinations include:

- Simplex VHF/VHF
- UHF/UHF
- VHF/UHF
- UHF/VHF

Setup Procedure

1. Configure Auto Repeater Settings

Navigate to 'Optional Settings > Auto Repeater':

- Set 'Simplex Repeater' to ON.
- Set 'Simplex Relay Slot' to CH Slot.
- Set 'Spkr During RX of Repeater' to ON or OFF. Selecting OFF will mute the radio's speaker.

	Alert Tone	Auto repeater	GPS/Ranging
Auto repeater			
Auto Repeater A		Off	
Auto Repeater B		Off	
Auto Repeater(UHF)		5.00000 MHz	
Auto Repeater(VHF)		600.00 KHz	
Simplex Repeater		On	←
Speaker During RX Of Simplex Repeater		On	←
Simplex Relay Slot		CH Slot	←

2. Activate Recording

Navigate to 'Optional Settings > Record':

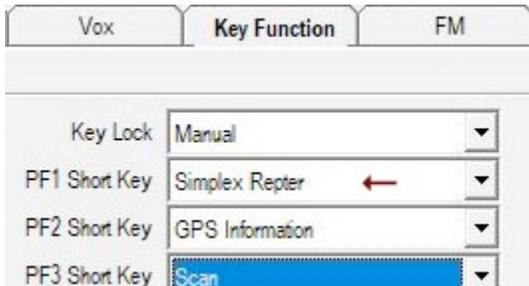
- Set 'Assign Record Function' to ON.

	Record
Record	
Record Function	On
Record Delay	0.0s

3. Assign Key Function

Navigate to 'Optional Settings > Key Function':

- Assign a programmable key to the "Simplex Repeater". This key will toggle the Repeat mode ON/OFF.



4. Program a Digital Simplex Channel

- Set Frequency TG to 99, CC to 1, and TS to 1.
- **Ensure 'Simplex TDMA' is turned OFF.**
- **Ensure 'TDMA Adaptive' is turned OFF.**

Operation

When the Digital Simplex function is activated, a light blue icon will appear in the upper bar of the LCD display.

