



WOUXUN COMMUNICATIONS LIMITED

11/F OFFICE A HARVARD COMMERCIAL BUILDING 105-111 THOMSON RD WAN CHAI HK, 999077 HONGKONG

USER' S MANUAL
KG-XS30G

RADIO GMRS MOBILE RADIO

Accord to that antenna length in different regions, only below type antenna was authorized use in the product.

Antenna Type: Monopole

Antenna Gain: 2.15 dBi

Warning 

- » Explosive environments (gas, dust, and smoke, etc.)
- » When refueling or parking at a gas station, please turn off the walkie-talkie.



Important Safety Instructions

Our walkie-talkies are products featuring excellent design and advanced technology. The following recommendations will help you fulfill your obligations under the warranty terms and understand the safety aspects of using walkie-talkies.

1. Keep the walkie-talkie and all its components and accessories out of reach of children.
2. Do not attempt to disassemble the walkie-talkie. Improper handling by non-professionals may cause damage.
3. Do not expose the walkie-talkie to direct sunlight for extended periods or place it in overly hot environments.
4. Do not place the walkie-talkie in dusty or humid areas.
5. Do not clean the walkie-talkie with strong chemicals, detergents, or harsh cleaning agents.
6. Do not transmit without the antenna installed.

Warning

- » All the above recommendations apply equally to your walkie-talkie and its accessories. If they do not function properly, please contact our authorized dealer promptly.
- » If accessories or parts not produced or sold by our company are used, we cannot guarantee the safety or operability of the walkie-talkie.

Table of Contents

Pre-installation	01-04
Installation of the in-vehicle intercom	01
Connecting the power supply	02
Replacing the fuse	03
Antenna installation	04
Familiarize yourself with the device	05-07
Structural description	05-07
Common basic operations	08-09
Function Operations and Explanations	10-30
Step Frequency (STEP) --- Menu 01	10
Power Selection (TX-POWER) --- Menu 02	10
Power-saving mode (BAT-SAVE) --- Menu 03	10
Voice control level (VOX) --- Menu 04	10-11
Bandwidth Setting (W-N) --- Menu 05	11
Backlight Time (ABR) --- Menu 06	11
Beep (BEEP) --- Menu 07	11
Transmit Timeout Timer (TOT) --- Menu 08	11



Table of Contents

Receive Digital Subtone (RX-DCS) --- Menu 09	12
Receive Analog Subtone (RX-CTCSS) --- Menu 10	12
Transmit Digital Sub-Audio (TX-DCS) --- Menu 11	12
Transmit Analog Subtone (TX-CTCSS) --- Menu 12	13
Receive Backlight (BK-RX) --- Menu 13	13
Transmit Backlight (BK-TX) --- Menu 14	13
Standby Backlight (BX-TX) --- Menu 15	13
Squelch Level (SQUELCH) --- Menu 16	14
Transmit Timeout Warning Timer (TOA) --- Menu 17	14
Transmit Acknowledgment Tone (ROGER) --- Menu 18	14
Voice Prompt (VOICE) --- Menu 19	15
Busy Call Lockout (BCL) --- Menu 20	15
Scan Mode (SC-REV) --- Menu 21	15
Squelch Mode (SP-MUTE) --- Menu 22	16
Side Tone Mode (DTMF-ST) --- Menu 23	16
ID Transmission Mode (PTT-ID) --- Menu 24	16-17
ID Edit (ANI-EDIT) --- Menu 25	17

Voice-activated delay (VOX-DLY) --- Menu 26	17
ID delay (PTT-DLY) --- Menu 27	18
Ring time (RING) --- Menu 28	18
Frequency Offset (OFFSET) --- Menu 29	18
Frequency Offset Direction (SFT-D) --- Menu 30	18
Operating Mode (WORK-MODE) --- Menu 31	19
Channel Name (CH-NAME) --- Menu 32	19
Channel Memory (CH-MEM) --- Menu 33	19-20
Channel Delete (CH-DELETE) --- Menu 34	20
Priority Channel (PRICH-SET) --- Menu 35	21
Priority Scan Switch (PRICH-SW) --- Menu 36	21
Single Tone Setting (ALERT) --- Menu 37	21-22
Scan Subtone Detection (QT-SW) --- Menu 38	22
Scan Subtone Save Type (SCAN-QT) --- Menu 39	22
Subtone Scan (TONESCAN) --- Menu 40	22-23
Power-On Screen Selection (ST-MSG) --- Menu 41	23
Scan Add (SCAN-ADD) --- Menu 42	23



Table of Contents

Keyboard Auto Lock (AUTOLOCK) --- Menu 43	23
Key Lock Mode (LOCK-MODE) --- Menu 44	24
Voice Noise Reduction (DENOISE) --- Menu 45	24
Speaker Settings (SPK-SET) --- Menu 46	24
Call Group Number (CALLCODE) --- Menu 47	24-25
Stopwatch (SECOND) --- Menu 48	25
Side Key 1 Short Press (PF1-SHORT) --- Menu 49	25
Side Key 1 Long Press (PF1-LONG) --- Menu 50	25-26
Side Key 2 Short Press (PF2-SHORT) --- Menu 51	26
Side Key 2 Long Press (PF2-LONG) --- Menu 52	26
Side Key 3 Short Press (PF3-SHORT) --- Menu 53	26
Side Key 3 Long Press (PF3-LONG) --- Menu 54	27
Side Key 4 Short Press (PF4-SHORT) --- Menu 55	27
Side Key 4 Long Press (PF4-LONG) --- Menu 56	27
Transfer Acknowledgment Tone (RPT-TONE) --- Menu 57	28
Query Voltage (VOLTAGE) --- Menu 58	28
Voice Encryption (SCRAMBLE) --- Menu 59	28

Voice Compression/Expansion (COMPAND) --- Menu 60	28
Radio (FM RADIO) --- Menu 61	29
Menu Language (LANGUAGE) --- Menu 62	29
Initialization (RESET) --- Menu 63	29
Detailed Description of Some Functions	30-35
DTMF Signaling	30-35
Radio scanning	35
Technical Specifications (CTCSS/DCS)	36-37
Analog (CTCSS)	36
Digital (DCS)	37
Select accessories	38
Troubleshooting	39
Disclaimer	40

Pre-use installation

Installation of the car mobile radio

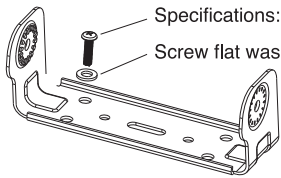
Select a safe location inside your vehicle to minimize the risk of injury to occupants during vehicle movement. It is recommended to install the intercom below the front dashboard to avoid collision with the driver during emergency braking. Choose a well-ventilated location and avoid direct sunlight.

1. Use the provided self-tapping screws to install the mounting bracket in the vehicle.

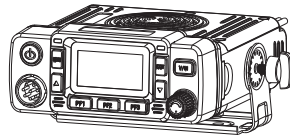
Self-tapping screws (4 pieces)

Specifications: 5x16

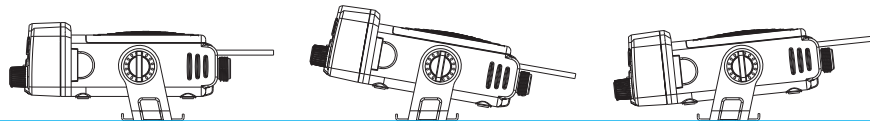
Screw flat washers



2. Secure the walkie-talkie, then insert the combination screws provided and tighten them, ensuring that all screws are tightened to prevent the bracket or walkie-talkie from loosening due to vehicle vibration.

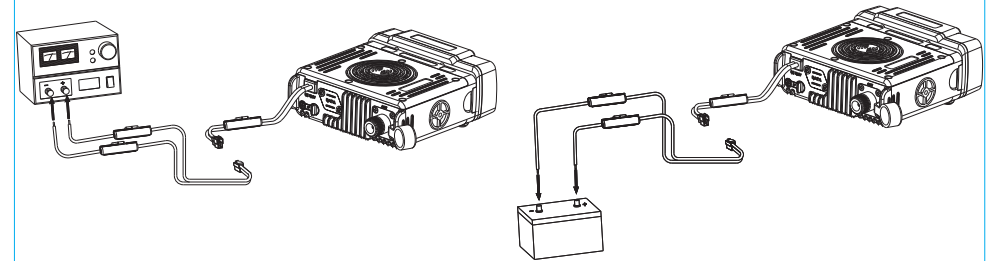


3. Using the scale slots on the side edges of each bracket, the main unit can be adjusted to different angles.



Connecting the power supply

The power supply range for the vehicle-mounted two-way radio is $13.8V \pm 15\%$. When your power supply (or vehicle power supply) exceeds 16V, transmission is prohibited to protect the vehicle-mounted two-way radio; When the voltage is below 10V, the device enters low-voltage mode, with the voltage display turning red. When the voltage drops below 9.5V, the radio will alert you to low voltage and shut down to prevent the vehicle battery from being drained by the radio, which could affect the normal operation of the vehicle.



Special note

» The operating voltage of this mobile radio is DC 13.8V +15%.

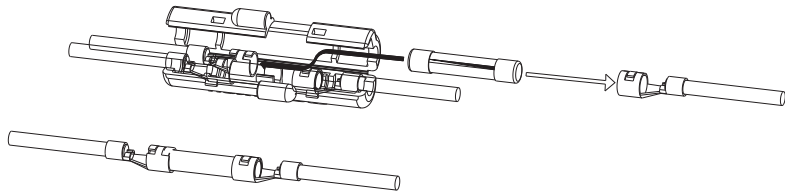
Pre-use installation

Replacing the fuse

If the fuse in your walkie-talkie blows, first identify the cause and then resolve the issue. After resolving the issue, replace the fuse. If the newly installed fuse blows again, disconnect the power supply and immediately contact your local authorized dealer or service center for assistance.

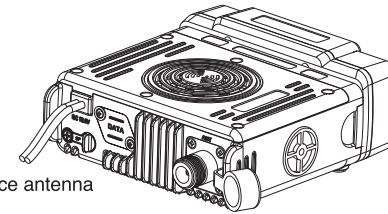
The fuse has a rated current of 15A and is designed for use with a DC power supply with a rated current of 20A or higher.

The installation of the fuse is shown in the figure on the right. After installing the fuse, ensure that it is securely connected to the copper sleeve!



Antenna Installation

Before operation, you must first install and adjust the antenna properly. The success of antenna installation depends on the type of antenna and whether it is installed correctly. If you select the appropriate antenna system and install it correctly, the walkie-talkie will achieve the best performance.



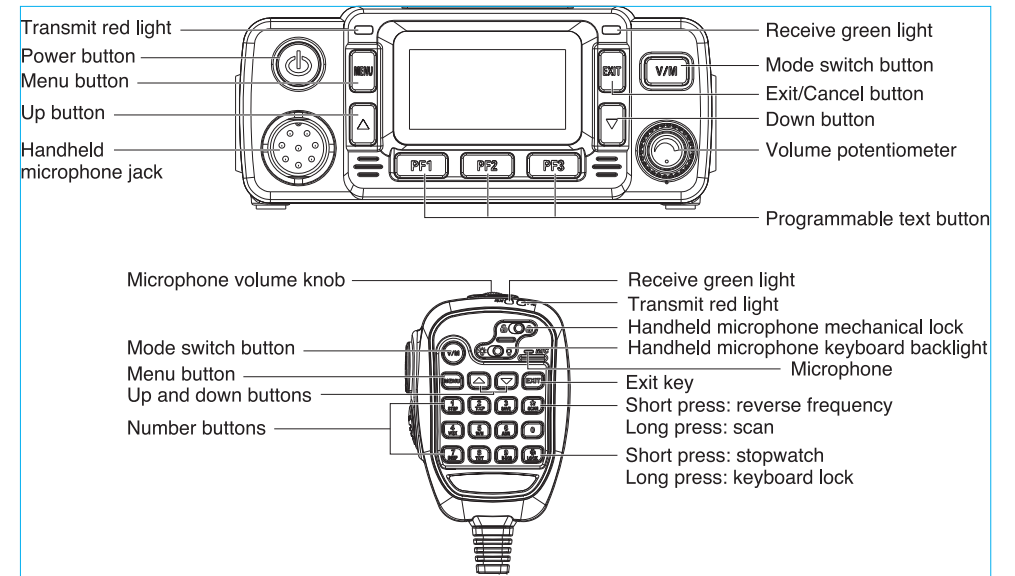
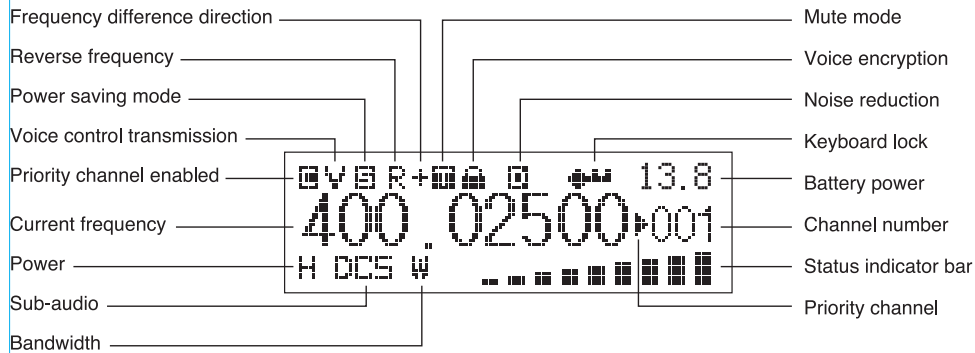
50-ohm impedance antenna

Familiarize yourself with the device

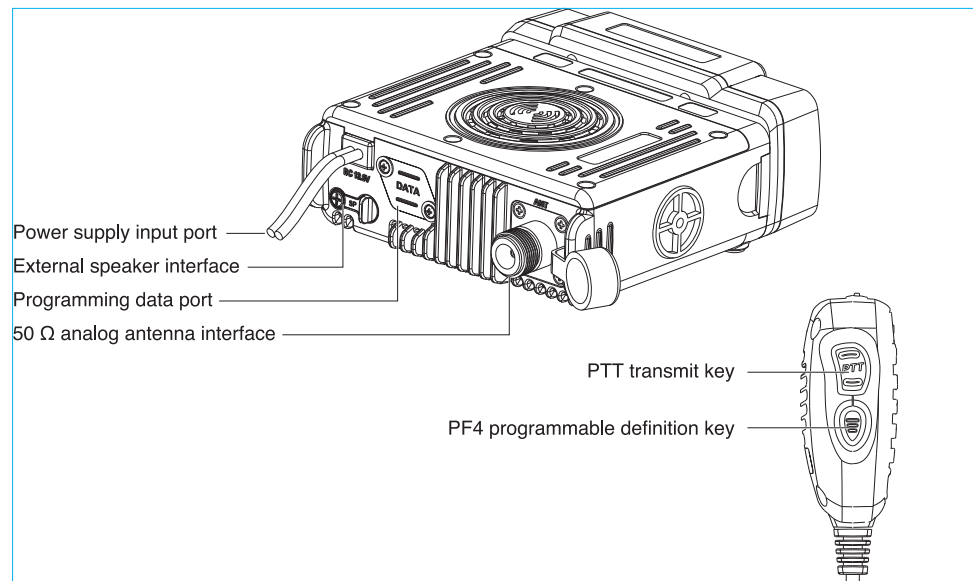
Structural description

Screen

Various indicators representing the selected content are displayed on the screen. Sometimes, you may not remember what these indicators mean or how to set them. In such cases, the table below will be extremely useful.



Familiarize yourself with the device



Common Basic Operations

Adjusting Volume

Turn the [Volume Control Knob] clockwise to increase the volume, and counterclockwise to decrease the volume.

Quick Search Function

During the process of setting various functions or parameters, pressing the [▲] or [▼] key once will search for functions or parameters in the upward or downward direction; holding down the [▲] or [▼] key will perform a quick search.

Channel Number Selection

This device has a total of 400 channels, which can be switched using the up/down keys.

Inverse Frequency Function

In standby mode, briefly press the [*] key on the handheld microphone to activate the inverse frequency function.

Quick Scan

In standby mode, hold down the [*] key on the handheld microphone to activate the quick scan function.

Keyboard Lock Function

In standby mode, press and hold the [#] key on the handheld microphone or the [EXIT] key on the panel to quickly lock/unlock the keyboard.



Common Basic Operations

Quick Mode Switching

In standby mode, press the [V/M] key on the panel or the [V/M] key on the handheld microphone to quickly switch between operating modes.

Single audio pulse

Press PF1 while in transmit mode to send a single audio pulse frequency.

Radio scanning

In radio mode, press the [*] key on the handheld microphone briefly to scan radio frequencies, or enter the radio station frequency directly using the numeric keys on the handheld microphone.

Function Operations and Descriptions

Step Frequency (STEP) --- Menu 01

Function Description: Sets the VFO frequency adjustment step value.

Options: 2.5K/5K/6.25K/8.33K/10K/12.5K/25K/50K/100K

Default Value: 12.5K

Transmit Power Selection (TX-POWER) --- Menu 02

Function Description: Sets the transmit power level of the walkie-talkie.

Options: H/L

Default Value: H

Power-Saving Mode (BAT-SAVE) --- Menu 03

Function Description: Sets whether to enable or disable the power-saving function.

Options: OFF/ON

Default value: ON

Voice Activation Level (VOX) --- Menu 04

Function Description: VOX allows you to transmit without pressing the [PTT] button each time. Once the VOX circuit detects speech into the microphone, the walkie-talkie will automatically enter transmit mode. When using VOX, please select the appropriate VOX gain. To ensure continuous VOX detection, you can also set the voice activation delay in Menu 26.

Function Operations and Descriptions

Options: OFF/1-9 levels

Default value: OFF

Bandwidth settings (W-N) --- Menu 05.

Function Description: Sets the walkie-talkie to operate in wide (25K) or narrow (12.5K) bandwidth mode.

Options: WIDE/NARROW

Default Value: WIDE

Backlight Time (ABR) --- Menu 06

Function Description: Sets the duration the screen backlight remains on.

Options: OFF/ALWAYS ON/1-30S

Default Value: 10 seconds

Beep (BEEP) --- Menu 07.

Function Description: Set the walkie-talkie's operational prompts, error alerts, or fault warning tones.

Options: OFF/ON

Default Value: ON

Transmit Timeout Timer (TOT) --- Menu 08

Function Description: Set the maximum transmission duration for each transmission.

Options: Off/15–900 seconds, in 15-second increments

Default value: 60 seconds

Receive Digital Sub-Audio (RX-DCS) --- Menu 09

Function description: Set the walkie-talkie to receive digital sub-audio.

Options: Off/105 standard digital sub-audio groups/non-standard digital sub-audio (001–777)

Note: Non-standard sub-audio can be written via frequency programming software or entered via the numeric keypad. The positive and negative codes for digital sub-audio can be switched using the [#] key on the handset after entering the sub-audio settings menu.

Receive Analog Sub-Audio (RX-CTCSS) --- Menu 10

Function Description: Set the walkie-talkie to receive analog sub-audio.

Options: OFF/50 standard analog sub-audio groups/non-standard analog sub-audio (65.0-260.0)

Note: Non-standard sub-audio can be written via frequency programming software or entered via the numeric keypad.

Transmit Digital Sub-Audio (TX-DCS) --- Menu 11

Function Description: Set the walkie-talkie to receive digital sub-audio.

Options: OFF/105 standard digital sub-audio groups/non-standard digital sub-audio (001-777)

Note: Non-standard sub-audio can be written via frequency programming software or entered via the numeric keypad. The positive and negative codes for digital sub-audio can be switched using the [#] key on the handheld microphone after entering the sub-audio settings menu.

Options: Off/15–900 seconds, in 15-second increments

Default value: 60 seconds



Function Operations and Descriptions

Transmit Analog Subtone (TX-CTCSS) --- Menu 12

Function Description: Set the walkie-talkie to transmit analog subtone.

Options: OFF/50-group standard analog subtone/non-standard analog subtone (65.0-260.0)

Note: Non-standard subtone can be written via frequency programming software or entered via the numeric keypad.

Receive Backlight (BK-RX) --- Menu 13

Function Description: Set the backlight color that illuminates when the walkie-talkie is receiving.

Options: BLUE/PURPLE/GREEN/YELLOW/CYAN/WHITE/RED

Default: BLUE

Transmit Backlight (BK-TX) --- Menu 14

Function Description: Set the backlight color that illuminates when the walkie-talkie is transmitting.

Options: BLUE/PURPLE/GREEN/YELLOW/CYAN/WHITE/RED

Default: RED

Standby Backlight (BX-TX) --- Menu 15

Function Description: Sets the backlight color that illuminates when the walkie-talkie is in standby mode.

Options: BLUE/PURPLE/GREEN/YELLOW/CYAN/WHITE/RED

Default: WHITE

Squelch Level (SQUELCH) --- Menu 16

Function Description: Set the appropriate squelch level to reduce unnecessary signal interference. The higher the level, the stronger the signal must be to be received.

Options: 0-9 levels

Default Value: 5

Transmit Timeout Warning Timer (TOA) --- Menu 17

Function Description: Set the warning before the walkie-talkie transmission times out, at which point the transmission indicator light flashes.

Options: OFF/1-10 seconds, 1-second increments

Default Value: OFF

Transmission Beep (ROGER) --- Menu 18

Function Description: Set the beep when pressing the PTT to transmit and releasing the PTT to end transmission.

Options: OFF/BOT (beep when pressing PTT) /EOT (beep when releasing PTT) /BOTH (beep when both pressing and releasing PTT)

Default value: OFF



Function Operations and Descriptions

Voice Prompt (VOICE) --- Menu 19

Function Description: Set the voice prompts for the walkie-talkie's operations.

Options: OFF/CHINESE/ENGLISH

Default: ENGLISH

Busy Channel Lockout (BCL) --- Menu 20

Function Description: Sets the walkie-talkie to detect whether the current channel or frequency is occupied.

Enabling this feature prevents interference with other stations that are currently communicating.

Options: OFF/ON

Default: OFF

Scan Mode (SC-REV) --- Menu 21

Function Description: Sets the walkie-talkie's scan mode.

Options: TO/SE/CO

TO: Continues scanning if no action is taken within 5 seconds after detecting a carrier signal.

SE: Stops scanning upon detecting a carrier signal.

CO: Stops scanning upon detecting a carrier signal and resumes scanning 5 seconds after the carrier signal disappears.

Default Value: TO

Mute Mode (SP-MUTE) --- Menu 22

Function Description: Sets the walkie-talkie's mute mode. Used to determine the conditions under which the device's speaker is activated while receiving a carrier signal.

Available Options: QT/QT*DT/QT+DT

QT: The speaker can be activated as long as the carrier signal matches the sub-audio signal.

QT+DTMF: The speaker can only be activated if both the QT condition and the carrier signal matching the dual-tone multi-frequency (DTMF) signaling are met.

QT*DTMF: The speaker can be activated as long as either the QT condition or the carrier signal matching the DTMF signaling is met.

Default value: QT

Side Tone Mode (DTMF-ST) --- Menu 23

Function Description: Sets whether the speaker activates the DTMF sound when the walkie-talkie transmits an identity code or DTMF encoding.

Options: OFF/DT-ST/AN-ST/DT+ANI

Default Value: DT+ANI

ID Transmission Mode (PTT-ID) --- Menu 24

Function Description: Sets the transmission mode for the walkie-talkie's identity code.

Options: OFF/BOT/EOT/BOTH

BOT: Sends the identity code when the PTT button is pressed.



Function Operations and Descriptions

EOT: Sends the identity code when the PTT button is released.

BOTH: Sends the identity code both when the PTT button is pressed and released.

Default Value: OFF

ID Editor (AN-EDIT) --- Menu 25

Function Description: Set and edit the walkie-talkie ID code.

Available Options: 0-9

Default Value: 101

ID Code Editing Methods: 1. Edit using the accompanying programming software. 2. Edit using the walkie-talkie's operation keyboard.

Editing via the walkie-talkie's control panel: With the walkie-talkie in standby mode, press the [MENU] key to enter the menu, then use the up/down keys to select Menu 25

"ANH -EDIT", press the [MENU] key to enter ID code editing, use the up/down keys to select numbers 0-9, press side key 1 to edit the previous digit, press side key 2 to edit the next digit, and press the [MENU] key to confirm ID code editing.

Voice Activation Delay (VOX-DLY) --- Menu 26

Function Description: Sets the delay time for closing the PTT after voice activation transmission in voice activation mode.

Options: OFF/1-5, each level is 1 second.

Default Value: 1

ID Delay (PTT-DLY) --- Menu 27

Function Description: Sets the duration of the delay in sending the ID code after pressing the PTT button.

Options: 100ms to 3000ms, each level is 100 milliseconds.

Default Value: 300ms

Ring Time (RING) --- Menu 28

Function Description: Sets the duration of the ringtone before the speaker is activated when the walkie-talkie is called.

Options: OFF/1-10S, each level is 1 second.

Default Value: 5

Frequency Offset (OFFSET) --- Menu 29

Function Description: Sets the frequency offset of the walkie-talkie.

Options: 00.00000-- 999.99750

Default value: 000.00000

Frequency Offset Direction (SFT-D) --- Menu 30

Function Description: Sets whether the walkie-talkie's transmit frequency is higher (+) or lower (-) than the receive frequency.

Options: OFF/+/-

Default value: QFF

Function Operations and Descriptions

Operating Mode (WORK-MODE) --- Menu 31

Function Description: Set the operating mode of the walkie-talkie.

Options: FREQ/CH/CHFREQ/NAME

Default Value: FREQ

Channel Name (CH-NAME) --- Menu 32

Function Description: Set the walkie-talkie channel name.

Available Options: 26 letters, 0-9 digits, special characters.

Default Value: No channel name

Channel Name Editing Methods: 1. Edit using the accompanying programming software. 2. Edit using the walkie-talkie's operation keyboard.

Editing via the walkie-talkie's operation keyboard: While the walkie-talkie is in standby mode, press the [MENU] key to enter the menu, then use the up/down keys to select Menu 32

"CH-NAME", press the [MENU] key to enter the channel name editing mode, use the up/down keys to cycle through the 26 letters, 0-9 digits, and special characters, press the [PF1] key to select and edit the current position, press the [PF2] key to select and edit the next position, and press the [MENU] key to confirm the channel name editing.

Channel Storage (CH-MEM) --- Menu 33

Function Description: Sets the frequency parameters and other channel parameters required for storing

the walkie-talkie.

Available Options: CH-001 to CH-400

Default Value: CH-001

Channel Storage Editing Methods: 1. Edit using the 配套 programming software. 2. Edit using the walkie-talkie's operation keyboard.

Editing via the walkie-talkie's control panel: While the walkie-talkie is in standby mode, press the [MENU] button to enter the menu, then use the up/down buttons to select menu 33

"CH-MEM", press the [MENU] key to enter the channel storage edit mode, use the up/down keys to select the desired channel number, and press the [MENU] key to confirm the channel storage edit.

Note: When the currently selected channel is an empty channel, "N" will be displayed afterward.

Channel Delete (CH-DELETE) --- Menu 34

Function Description: Set to delete unnecessary channels from the walkie-talkie.

Options: CH-001 to CH-400

Default Value: CH-001

Walkie-Talkie Keypad Editing: While the walkie-talkie is in standby mode, press the [MENU] key to enter the menu, then use the up/down keys to select Menu 34

"CH-DELETE", press the [MENU] key to enter the channel name edit mode, use the up/down keys to select the channel number to be deleted, and press the [MENU] key to confirm the channel deletion edit.

Note: When the currently selected channel is an empty channel, "N" will be displayed afterward.

Function Operations and Descriptions

Priority Channel (PRICH-SET) --- Menu 35

Function Description: Set a channel as the priority channel.

Available Options: CH-001 to CH-400

Default Value: CH-001

Walkie-Talkie Keyboard Editing: While the walkie-talkie is in standby mode, press the [MENU] key to enter the menu, then use the up/down keys to select menu 35

“PRICH-SET”, press the [MENU] key to enter the priority channel editing mode, use the up/down keys to select the desired priority channel, and press the [MENU] key to confirm the priority channel editing.

Note: When the current channel selected using the up/down keys is an empty channel, “N” will be displayed afterward.

Priority Scan Switch (PRICH-SW) --- Menu 36

Function Description: Sets the priority channel function when the walkie-talkie is turned on or off during scanning.

Options: OFF (Disable Priority Scan) / Rx Close (Disable Priority Scan During Reception) / ON (Enable Priority Scan)

Default Value: OFF:

Single Tone Setting (ALERT) --- Menu 37

Function Description: Sets the single-tone audio pulse frequency required for the walkie-talkie to transmit.

Options: 1000/1450/1750/2100/

Default Value: 1750

Scan Subtone Detection (QT-SW) --- Menu 38

Function Description: Determines whether to detect subtone matching during scanning.

Options: OFF/ON

Default Value: OFF

Scan Subtone Storage Type (SCAN-QT) --- Menu 39

Function Description: Set the storage method when the walkie-talkie scans a subtone.

Options: DECODER/ENCODER/ALL

DECODER: Stores the subtone in the receiver after scanning.

ENCODER: Stores sub-audio tones detected in the transmitter.

ALL: Stores sub-audio tones detected in both the receiver and transmitter.

Default value: DECODER

Sub-audio scanning (TONESCAN) --- Menu 40

Function Description: Sets whether the walkie-talkie scans analog sub-audio or digital sub-audio in receive mode.

When analog sub-audio or digital sub-audio is detected, the device stops at that sub-audio value. Press

Function Operations and Descriptions

the [MENU] key to confirm and save. The sub-audio save type can be set via Menu 39 "Scan Sub-Audio Save Type (SCAN-QT)."

Power-On Screen Selection (ST-MSG) --- Menu 41

Function Description: Sets the screen displayed when the walkie-talkie powers on.

Options: MSG/BATT-V

Default Value: MSG

Note: The MSG interface can be edited via programming software.

Scan Add (SCAN-ADD) --- Menu 42

Function Description: Sets whether the currently selected channel participates in channel scanning.

Options: OFF/ON

Default Value: ON

Keyboard Auto Lock (AUTOLOCK) --- Menu 43

Function Description: Sets the walkie-talkie to automatically enter keyboard lock mode when no operations are performed.

Options: OFF/10-60S

Default Value: OFF

Key Lock Mode (LOCK-MODE) --- Menu 44

Function Description: Sets the walkie-talkie's keyboard lock mode.

Options: KEY/KEY+PTT

KEY: Locks the keys and PF1, PF2, PF3, PF4 keys.

KEY+PTT: Locks the keys and PF1, PF2, PF3, PF4, and PTT keys.

Default: KEY

Voice Noise Reduction (DENOISE) --- Menu 45

Function Description: Sets the voice noise reduction function on the walkie-talkie.

Options: ON/OFF

Default: OFF

Speaker Settings (SPK-SET) --- Menu 46

Function Description: Sets the speaker channel on the walkie-talkie.

Options: SPK1 (main unit speaker) / SPK2 (handheld microphone speaker) / SPK1+SPK2 (main unit speaker + handheld microphone speaker)

Default: SPK1 (main unit speaker)

Call Group Number (CALLCODE) --- Menu 47

Function Description: Sets the call group to send the corresponding DTMF code when the side button is

Function Operations and Descriptions

pressed to define the selective call function on the current channel or frequency of the walkie-talkie.

Options: 1-20

Default: 1

Stopwatch (SECOND) --- Menu 48

Function Description: Sets whether to enable or disable the stopwatch function of the walkie-talkie.

Options: OFF/ON

Default Value: OFF

Note: When the stopwatch function is enabled, press the # key on the handheld microphone keyboard to start/stop timing, press the [MENU] key to pause/resume timing, and press the [EXIT] key to exit the stopwatch.

Side Key 1 Short Press (PF1-SHORT) --- Menu 49

Function Description: Sets the programming function for the walkie-talkie's side key.

Options: OFF / MONI (Mute) / SCAN (Scan) / BACK-LT (Backlight) / Vox (Voice Activation) / TXPOW (Power Switch) / CALL (Selective Call) / TALK-A (Off-Network) / DENOISE (Noise Reduction) / RADIO (Radio)

Default: RADIO (Radio)

Side Key 1 Long Press (PF1-LONG) --- Menu 50

Function Description: Sets the programming function for the walkie-talkie's side keys.

Options: OFF / MONI (Mute) / SCAN (Scan) / BACK-LT (Backlight) / Vox (Voice Activation) / TXPOW (Power Switch) / CALL (Selective Call) / TALK-A (Off-Network) / DENOISE (Noise Reduction) / RADIO (Radio)
Default value: SCAN (Scan)

Side Key 2 Short Press (PF2-SHORT) --- Menu 51

Function Description: Sets the programming function for the walkie-talkie's side keys.

Options: OFF / MONI (Mute) / SCAN (Scan) / BACK-LT (Backlight) / Vox (Voice Activation) / TXPOW (Power Switch) / CALL (Selective Call) / TALK-A (Off-Network) / DENOISE (Noise Reduction) / RADIO (Radio)

Default value: DENOISE (Noise Reduction)

Side Key 2 Long Press (PF2-LONG) --- Menu 52

Function Description: Set and define the side key programming functions of the walkie-talkie.

Options: OFF / MONI (Mute) / SCAN (Scan) / BACK-LT (Backlight) / Vox (Voice Activation) / TXPOW (Power Switch) / CALL (Selective Call) / TALK-A (Off-Network) / DENOISE (Noise Reduction) / RADIO (Radio)

Default value: MONI (Mute)

Side Key 3 Short Press (PF3-SHORT) --- Menu 53

Function Description: Sets the programming function for the walkie-talkie's side key.

Options: OFF / MONI (Mute) / SCAN (Scan) / BACK-LT (Backlight) / Vox (Voice Activation) / TXPOW (Power Switch) / CALL (Selective Call) / TALK-A (Off-Network) / DENOISE (Noise Reduction) / RADIO (Radio)

Default Value: TXPOW (Power Switch)



Function Operations and Descriptions

Side Key 3 Long Press (PF3-LONG) --- Menu 54

Function Description: Set and define the side key programming functions of the walkie-talkie.

Options: OFF / MONI (Squelch) / SCAN (Scan) / BACK-LT (Backlight) / Vox (Voice Activation) / TXPOW (Power Switch) / CALL (Selective Call) / TALK-A (Off-Network) / DENOISE (Noise Reduction) / RADIO (Radio)

Default value: BACK-LT (Backlight)

Side Key 4 Short Press (PF4-SHORT) ---Menu 55

Function Description: Set and define the side key programming functions of the walkie-talkie.

Options: OFF / MONI (Mute) / SCAN (Scan) / BACK-LT (Backlight) / Vox (Voice Activation) / TXPOW (Power Switch) / CALL (Selective Call) / TALK-A (Off-Network) / DENOISE (Noise Reduction) / RADIO (Radio)

Default value: CALL (Selective Call)

Side Key 4 Long Press (PF4-LONG) --- Menu 56

Function Description: Sets the programming function for the walkie-talkie's side key.

Options: OFF / MONI (Mute) / SCAN (Scan) / BACK-LT (Backlight) / Vox (Voice Activation) / TXPOW (Power Switch) / CALL (Selective Call) / TALK -A (Offline) 1 DENOISE (Noise Reduction) 1 RADIO (Radio)

Default Value: Vox (Voice Activation)

Relay Acknowledgment Tone (RPT-TONE) --- Menu 57

Function Description: Sets whether to enable or disable the offline acknowledgment tone when the walkie-talkie receives a signal from a relay station.

Options: OFF/ON

Default Value: OFF

Query Voltage (VOLTAGE) --- Menu 58

Function Description: Query the current battery voltage.

Voice Encryption (SCRAMBLE) --- Menu 59

Function Description: Select the walkie-talkie's voice encryption feature.

Options: OFF/1-8 groups

Default Value: OFF

Voice Compression/Expansion (COMPAND) --- Menu 60

Function Description: The voice compression/expansion function effectively reduces call noise, with particularly noticeable results during long-distance communication.

Options: OFF/ON

Default Value: OFF

Function Operations and Descriptions

Radio (FM RADIO) --- Menu 61

Function Description: Sets the storage/retrieval of radio stations in radio mode.

Available Options: RECALLMEMORY

Menu Language (LANGUAGE) --- Menu 62

Function Description: Selects the display language for the walkie-talkie menu.

Available Options: ENGLISH/Simplified Chinese/Traditional Chinese

Default Value: ENGLISH

Initialization (RESET) --- Menu 63

Function Description: Select the reset method.

Options: VFO/ALL

VFO: Resets all menus to factory default values.

ALL: Clears all channels and menus, restoring to factory default values.

Detailed Description of Some Functions

DTMF Signaling

1. Quick Operations

This device supports sending personal ID codes, selective call codes, and DTMF decoding functions, enabling operations such as selective calling without requiring additional communication settings.

The signaling mute type is configured via the programming software or menu 22 "SP -MUTE," set to either QT*DT or QT+DT.

a. Selective Calling Function Usage

Edit the information within the group number using the 配套 frequency programming software. For example, if the first group is set to use the "individual call" ID code 123456 for the walkie-talkie, then the first group's selective calling ID should be set to 123456.

b. Set the selective call group number to 1 via menu 47 "CALLCODE."

c. Define the side key as the "selective call" function via the menu.

d. Press the side key defined as the "selective call" function to perform a selective call on the walkie-talkie with ID code 123456 (same frequency and with signaling muted).

1. For walkie-talkies with ID codes less than 6 digits, add # after the group ID code.

2. When the first digit of the ID code is the same, they are members of the same group. For group calls within the group, set the group ID code to the first digit of the member's ID code followed by **.

3. For broadcast calls to all members, set the group ID code to *#.

Detailed Description of Some Functions

4. Using frequency programming software, you can set the selective call reset time. After a successful individual call, group call, or broadcast call, if no transmission is received within the reset time, the system will automatically reset, and the call must be re-initiated when the next signal arrives.

2. Remote Control Function

(a) Remote Control

The controlled code of the called radio + fixed code (CB) + identity code of the called radio are used to execute the remote control function.

Example: Remote control of Radio B by Radio A

(1) First, use the frequency programming software to set the controlled code and the identity code of Radio

B e.g., control code set to 126018, and walkie-talkie B's identity code set to 898188

(2) Remote lockout operation

Walkie-talkie A presses the PTT button to transmit, then sequentially inputs

[1] [2] [6] [0] [1] [8], [C] [B], [8] [9] [8] [1] [8] [8]

(3) After receiving the command, Walkie-Talkie B will be remotely disabled.

Note: 1. A remotely disabled walkie-talkie can only receive signals and cannot transmit.

2. When performing step (2), if the controlled code and identity code are less than 6 digits, press the [#] key (e.g., if the identity code is 123, after entering 123, press the [#] key once more).

(b) Remote Disabling

The controlled code of the called radio + fixed code (AB) + the identity code of the called radio execute the forced shutdown function.

Example: Remote shutdown of Radio B by Radio A

(1) First, use the frequency programming software to set the controlled code and the identity code of Radio B.

For example: Set the controlled code to 126018 and the identity code of Radio B to 898188.

(2) Remote kill operation

Press the PTT button on walkie-talkie A to transmit, then enter

[1] [2] [6] [0] [1] [8], [A] [B], [8] [9] [8] [1] [8] in sequence. [8]

(3) When Radio B receives the command, it will be remotely disabled.

Note: 1. Once a radio is remotely disabled, it cannot receive or transmit.

2. When performing step (2), if the control code and identity code are less than 6 digits, press the [#] key (e.g., if the identity code is 123, after entering 123, press the [#] key once more).

3. Monitoring

The controlled code of the called radio + fixed code (DA) + the identity code of the called radio execute the monitoring function.

Monitoring: When a walkie-talkie is being monitored, the microphone automatically opens, and surrounding

Detailed Description of Some Functions

sounds are automatically transmitted without a transmission prompt.

Example: Walkie-talkie A monitoring walkie-talkie B's operation

(1) First, use the frequency programming software to set the control code and the ID code of walkie-talkie B.

For example: Set the control code to 126018, and set the ID code of walkie-talkie B to 898188.

(2) Monitoring operation:

Walkie-talkie A presses the PTT key to transmit, then enters

[1] [2] [6] [0] [1] [8], [D] [A], [8] [9] [8] [1] [8] [8]

(3) Walkie-talkie B will be monitored after receiving the command.

Note: 1. When performing step (2), if the control code or ID code is less than 6 digits, add the [#] key (e.g., if the ID code is 123, enter 123 and then press the [#] key once more).

2. Each monitoring session lasts only 15 seconds. If the monitored walkie-talkie performs any operations during monitoring, the monitoring session will be terminated.

4. Patrol

The controlled code of the called walkie-talkie + fixed code (DB) + identity code of the called walkie-talkie are used to execute the patrol function.

The patrolled walkie-talkie will automatically send its own identity code, which is equivalent to roll call. This function is used to determine whether the walkie-talkie is operational and within communication range.

Example: Walkie-talkie A conducting a patrol of walkie-talkie B

(1) First, use the frequency programming software to set the control code and the identity code of walkie-talkie B.

For example, set the control code to 126018 and the identity code of walkie-talkie B to 898188.

(2) Inspection operation

Walkie-talkie A presses the PTT button to transmit, then sequentially inputs

[1] [2] [6] [0] [1] [8], [D] [B], [8] [9] [8] [1] [8] [8]

(3) After receiving the command, Radio B automatically transmits and sends its own identity code.

Note: When performing step (2), if the controlled code or identity code is less than 6 digits, press the [#] key (e.g., if the identity code is 123, after entering 123, press the [#] key once more).

5. Unlocking

The called unit's control code + fixed code (DB) + called unit's identity code executes the unlocking function. Unlocking can activate units that have been remotely disabled or remotely stunned.

Example: Unlocking Walkie-Talkie B that has been remotely disabled or remotely deactivated by Walkie-Talkie A

(1) First, use the frequency programming software to set the control code and the ID code of Walkie-Talkie B.

For example: Set the control code to 126018, and set the ID code of Walkie-Talkie B to 898188.

(2) Unlocking operation



Detailed Description of Some Functions

Press the PTT button on Radio A to transmit, then enter the following sequence:

[1] [2] [6] [0] [1] [8], [D] [B] [8] [9] [8] [1] [8] [8]

(3) Radio B will be activated upon receiving the command.

Note: When performing step (2), if the control code and identity code are less than 6 digits, press the [#] key (e.g., if the identity code is 123, enter 123 and then press the [#] key once more).

Radio scanning

1. After entering the radio mode via the side key, you can directly input the radio station frequency using the numeric keys, or press the [*] key to start automatic station scanning.
2. Radio station storage/retrieval: In radio mode, enter the radio menu, select RECALL (retrieve) / MEMORY (store), then use the up/down keys or numeric keys to select the station channel to retrieve/store, and press the [MENU] key to confirm retrieval/saving.

Technical Parameters (CTCSS/DCS)

Analog (CTCSS)

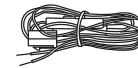
1	67.0	11	94.8	21	131.8	31	171.3	41	203.5
2	69.3	12	97.4	22	136.5	32	173.8	42	206.5
3	71.9	13	100.0	23	141.3	33	177.3	43	210.7
4	74.4	14	103.5	24	146.2	34	179.9	44	218.1
5	77.0	15	107.2	25	151.4	35	183.5	45	225.7
6	79.7	16	110.9	26	156.7	36	186.2	46	229.1
7	82.5	17	114.8	27	159.8	37	189.9	47	233.6
8	85.4	18	118.8	28	162.2	38	192.8	48	241.8
9	88.5	19	123.0	29	165.5	39	196.6	49	250.3
10	91.5	20	127.3	30	167.9	40	199.5	50	254.1

Technical Parameters (CTCSS/DCS)

Digital (DCS)

1	D023N	22	D131N	43	D251N	64	D371N	85	D532N
2	D025N	23	D132N	44	D252N	65	D411N	86	D546N
3	D026N	24	D134N	45	D255N	66	D412N	87	D565N
4	D031N	25	D143N	46	D261N	67	D413N	88	D606N
5	D032N	26	D145N	47	D263N	68	D423N	89	D612N
6	D036N	27	D152N	48	D265N	69	D431N	90	D624N
7	D043N	28	D155N	49	D266N	70	D432N	91	D627N
8	D047N	29	D156N	50	D271N	71	D445N	92	D631N
9	D051N	30	D162N	51	D274N	72	D446N	93	D632N
10	D053N	31	D165N	52	D306N	73	D452N	94	D645N
11	D054N	32	D172N	53	D311N	74	D454N	95	D654N
12	D065N	33	D174N	54	D315N	75	D455N	96	D662N
13	D071N	34	D205N	55	D325N	76	D462N	97	D664N
14	D072N	35	D212N	56	D331N	77	D464N	98	D703N
15	D073N	36	D223N	57	D332N	78	D465N	99	D712N
16	D074N	37	D225N	58	D343N	79	D466N	100	D723N
17	D114N	38	D226N	59	D346N	80	D503N	101	D731N
18	D115N	39	D243N	60	D351N	81	D506N	102	D732N
19	D116N	40	D244N	61	D356N	82	D516N	103	D734N
20	D122N	41	D245N	62	D364N	83	D523N	104	D743N
21	D125N	42	D246N	63	D365N	84	D526N	105	D754N

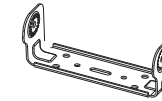
Select accessories



DC Power Cable with
Fuse Holder



Hand
Microphone



Mobile Mounting
Bracket



Troubleshooting

Before determining that the walkie-talkie is faulty, please check the following table: If the problem persists, you can initialize the walkie-talkie, which may correct incorrect operations.

Fault phenomenon	Solution
Receive indicator remains on, but speaker is silent	<ul style="list-style-type: none">» Check if the volume knob is turned up to maximum.» Check if a different sub-tone is set for other group members, and reconfirm the sub-tone settings.» Check if the mute mode is set correctly.
Buttons unresponsive	<ul style="list-style-type: none">» Check if the keyboard is locked.» Check if any other keys are stuck.
Cannot enter scan mode	<ul style="list-style-type: none">» Check if the channels within the scan group are enabled for scanning.
When in standby mode, the walkie-talkie automatically transmits without pressing the [PTT] button	<ul style="list-style-type: none">» Check if the voice control function is enabled and if the sensitivity level is set too low.
Other (non-group member) voices are heard on the channel	<ul style="list-style-type: none">» Change the sub-audio frequency.

Disclaimer

Every effort has been made to ensure the accuracy and completeness of the information contained in this manual. However, our company shall not be held responsible for any omissions or typographical errors that may appear. Our company reserves the right to modify product designs and specifications without prior notice.

Scan/RX: 400-480MHz

TX:462.5500-462.7250MHz,467.5500-467.7250MHz

TX/RX:2402-2480MHz

462 MHz Main Channels:45.11dBm (Conducted)

462 MHz interstitial channels:36.02 dBm (ERP)

467 MHz Main Channels:45.13dBm(Conducted)

TX/RX:2402-2480MHz: BLE: -0.55dBm; BT: 0.07dBm



MEMO

NOTICE / Compliance Information Statement

This equipment has been tested and found to comply with the limits for a Class B Analog device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any Changes expressly or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF EXPOSURE SAFETY INFORMATION

The information listed below provides you with the information needed to make you aware of RF exposure, and what to do to assure that you operate this radio properly and safely.

Your generates RF electromagnetic energy while transmitting. This means it must be used only by individuals who is properly licensed, aware of the hazards, and the ways to minimize such hazards. This radio is intended for use by the *General Population*

in an uncontrolled environment. This radio has been tested and complies with the essential requirements of FCC part 15 and the Radio Equipment Directive, 2014/53/EU, and the restriction of the use of certain hazardous substances in electrical and electronic equipment Directive, 2011/65/EU as an amateur radio equipment.

The use of other than recommended or approved accessories may result in RF exposure levels which exceed the environment RF exposure limits.

The electro-magnetic (radio Frequency) exposure level of this device may exceed the European



standards of the hazard level when transmitting at the high-power setting while connected to a unity gain antenna at a distance of approx 40cm or less from the operator. Furthermore, the hazardous RF exposure level depends on the conditions of the combination the antenna gain, distance from the operator, output setting and installation environment, therefore the operator may be exposed to stronger RF even at a longer distance. For safety purpose, it is recommended that the antenna be installed outside of, and as far as possible from, the operator's area. Avoid using an excessively high-gained antenna in case the distance between the operator and the antenna is very limited. Always use the minimum necessary output power for communications.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for General Population/Uncontrolled environment.

This equipment should be installed and operated with minimum distance 93cm between the radiat or your body.

This transmitter must not be located or operating in conjunction with any other antenna or transmitter.

**WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR
RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC
RULES AND US FEDERAL LAW.**