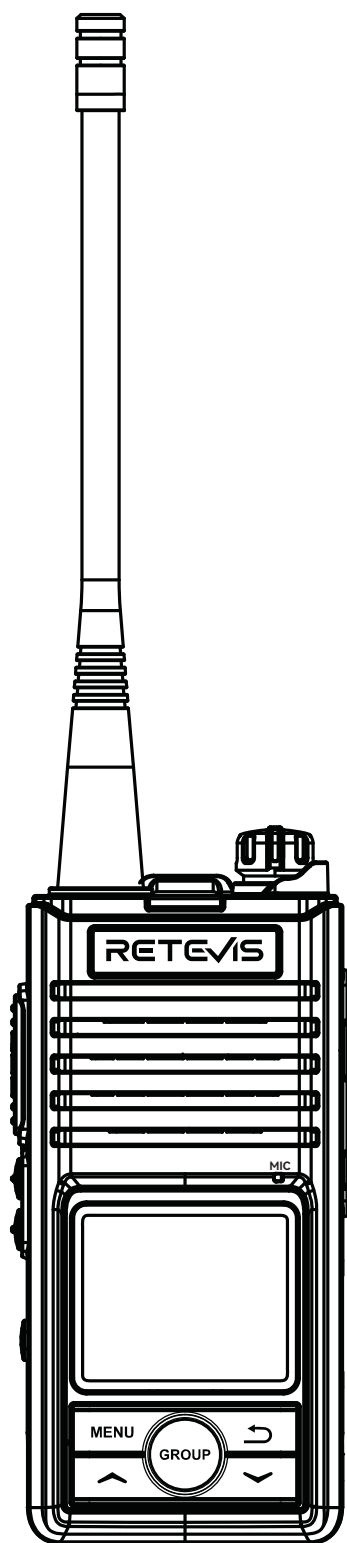


RETEVIS



RB58F USER'S MANUAL

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For downloading further resources:
Brochures, Software/Firmware, Manual etc, Pls contact
your direct reseller first OR go to website retevis.com and
check “support” in the each product link to download it.

Download Mobile Programming APP

Go to your mobile app store (App Store/Google Play), search for "RETEVIS", download and install the official APP. After installation, turn on the Bluetooth function of the walkie-talkie, pair and connect the device via APP Bluetooth, and you can configure parameters such as frequency and channel.

Android:



Google Play

iOS:



App Store

You can also scan the QR code below to download the APP directly.

Download PC Programming Software

Open the official RETEVIS website, go to the Download-Software section in the menu bar, find the programming software for your model in the list, and click [Download]. You'll receive the download link in your email shortly. Alternatively, you can click the link to download directly.

<https://www.retevis.com/downloads/software>

RB58F Product Manual

Main Features

Scrambling	Lone Worker	Roger Beep	Custom Channel Name
Data Transfer/Data Cloning	Scan	Bluetooth	Bluetooth App
One-Touch Group Call	Smart Power Save	NOAA Weather Alert	Voice Prompt
Multiple Alarm Modes			

Notice to Users

Unpacking Inspection

Before using the device, please open the packaging box and carefully check the contents listed in the table below. If any item is missing or damaged during transport, contact the carrier or your dealer immediately.

Accessories List

Item	Quantity
Radio	2
Battery	2
Type-C Charging Cable	1
Belt Clip	2
Lanyard	2
User Manual	1

Battery Information

Charging Precautions

Please charge new batteries or batteries that have not been used for a long time before use. Two or three charge/discharge cycles will bring the battery

to optimum capacity. When battery power is low, recharge or replace the battery.

Don't fully drain: Aim to recharge when the battery hits about 20% for battery, keeping it above critical levels.

Don't store batteries empty; charge them to 60–80% for ideal long-term storage to extend storage periods.

If your device or battery is not used for longer than seven days, please perform regular maintenance checks and recharge the battery periodically to maintain optimal battery levels. Following these guidelines will not only protect battery life but also ensure that devices can return to active duty without issue.

Eliminating the Risk, keep away from the flammable materials, heat sources and ignition sources while a battery is charged. Charging should only take place in a well ventilated area and when someone is about to be aware and react to a potential issue. To reduce risk of fire, a battery should not be charged for more than 8 hours and disconnect charger from line voltage (AC outlet) by removing main plug even if the battery is not completely charged. Don't leave a device unattended while charging. Disconnect the charger when the device is fully charged: do not overcharge the device.

Approved Battery Types

Use only batteries specified by the manufacturer. Using other batteries may cause explosion and personal injury.

Note:

1. Do not short-circuit battery terminals or dispose of the battery in fire. Do not disassemble the battery pack casing.

Charging ambient temperature should be between 0°C and 40°C.

Charging 2. outside this range may affect proper charging. Turn off the transceiver while charging. Using the transceiver during charging may interfere with proper charging.

3. Do not repeatedly unplug the power or battery during charging to avoid interrupting the charging process. To reduce risk of fire, a battery should not be charged for more than 6 hours and disconnect charger from line voltage (AC outlet) by removing main plug even if the battery is not completely charged.

4. If operating time is significantly reduced after a full charge, the battery has reached the end of its life – replace it.

5. Do not remove and reinsert a fully charged battery for recharging, as this may shorten battery life or cause damage.

6. Do not charge a wet battery or transceiver. Dry with a clean cloth before charging to avoid hazards.

Warning:

All batteries can cause property damage or personal injury if conductive metals (jewelry, keys, chain necklaces, etc.) touch the terminals. These

conductive metals may create a short circuit and generate high heat. Handle any battery with care, especially when placing it into a pocket, purse, or other container with metal objects.

Type-C Charging Procedure. Follow the steps below:

Insert a standard 5V/1A adapter into a power outlet.

Place the transceiver with the battery installed into the charging cradle.

Ensure that the battery makes proper contact with the charging pins. The charger indicator will light red, and the radio will display  a red icon, indicating that charging has started. For Type-C charging, insert the Type-C plug of the charging cable into the Type-C port on the right side of the radio. The radio will display  a red icon while charging. When fully charged, the icon  will turn green.

Charging typically takes approximately 5–6 hours. When the charging dock indicator turns green and the radio displays  a green icon, charging is complete. You may then remove the battery or use the radio with the battery installed.

Note: Do not use the radio while it is charging. Ensure the radio is turned off during charging.

Care and Cleaning

Do not carry or pull the transceiver by the antenna or external microphone.

Wipe dust and dirt from the transceiver with a lint-free cloth to prevent poor contact.

When the transceiver is not in use, cover the earphone/microphone jack. After prolonged use, keys, knobs, and the case may become dirty. Clean with a mild neutral detergent (do not use strong corrosive chemicals) and a damp cloth.

Accessory Installation

Installing / Removing the Battery

To install the battery pack, insert the two top tabs into the grooves at the top of the transceiver, then push the battery upward until it clicks into place.

To remove the battery, turn the transceiver off, pull the battery latch at the bottom downward, then slide the battery downward and remove it.

Installing / Removing the Antenna

Hold the base of the antenna and screw it clockwise into the antenna connector on top of the transceiver until tight. To remove, turn

counterclockwise.

Installing / Removing the Belt Clip

If desired, screw the supplied belt clip into the screw holes on the back of the battery pack. To remove, unscrew the two screws.

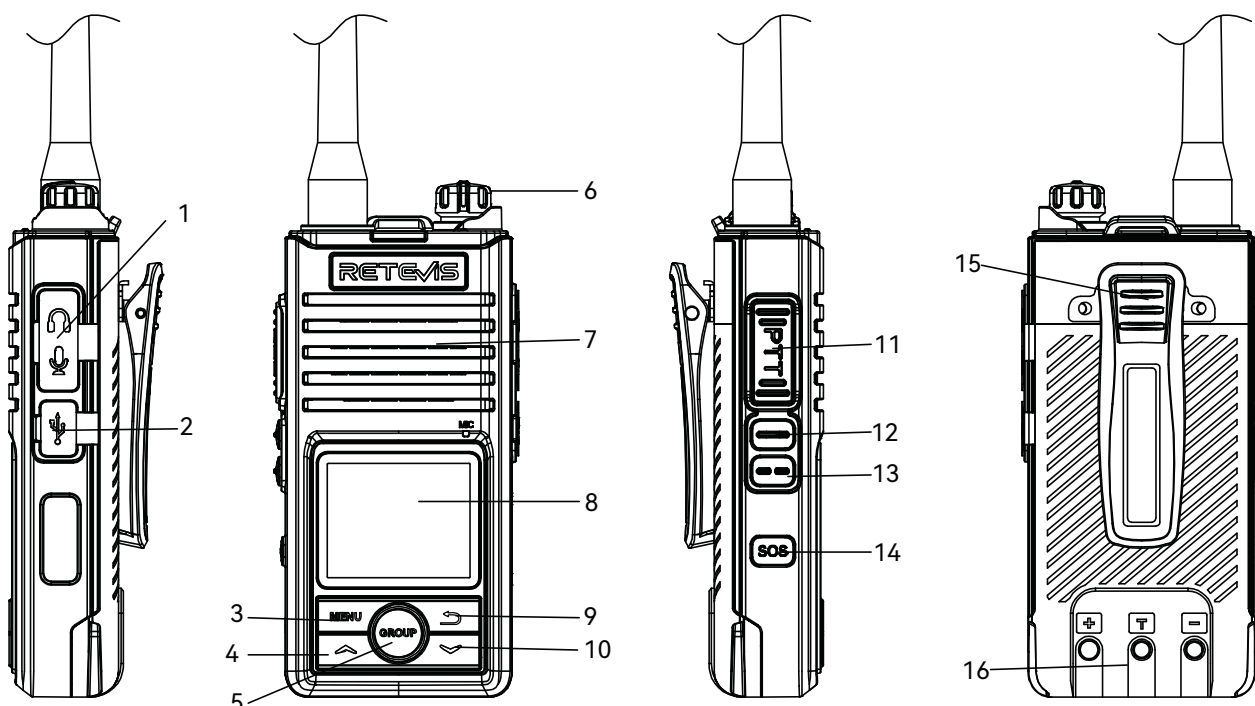
Installing the Lanyard

Thread the lanyard through the loop at the top center of the transceiver.

Installing an Optional Speaker / Microphone / Earphone

Open the rubber cover and insert the speaker/microphone/earphone plug into the corresponding jack.

Getting to Know Your Radio



1. SP/MIC Jack
2. Type-C Charging Port
3. Menu Key
4. Up Key / Channel+
5. Group Call Key
6. Volume/Power Knob
7. Speaker
8. LCD Display

9. Back Key
10. Down Key / Channel-
11. PTT Key
12. SK1
13. SK2
14. SOS Key
15. Belt Clip
16. Charging Cradle Contacts

Key Functions

【PTT】 Key (Push-to-Talk Key)

Transmit/Receive switching key: Press and hold this key while speaking into the microphone to transmit; release it to receive.

“SK1” Key

User-definable upper side key. Short press: Power level switch . Long press: Monitor.

“SK2” Key

User-definable lower side key. Short press: Scan. Long press: VOX.

MENU Menu Key

Short press in standby: Enter menu. Short press within a menu: Confirm selection.

Back Key

Short press in standby: Key lock. Long press: Unlock.

“Up Key / Channel+”

Short press in standby: Cycle up through channels. Short press within a menu: Navigate upward through menu options.

“Down Key / Channel-”

Short press in standby: Cycle down through channels. Short press within a menu: Navigate downward through menu options.

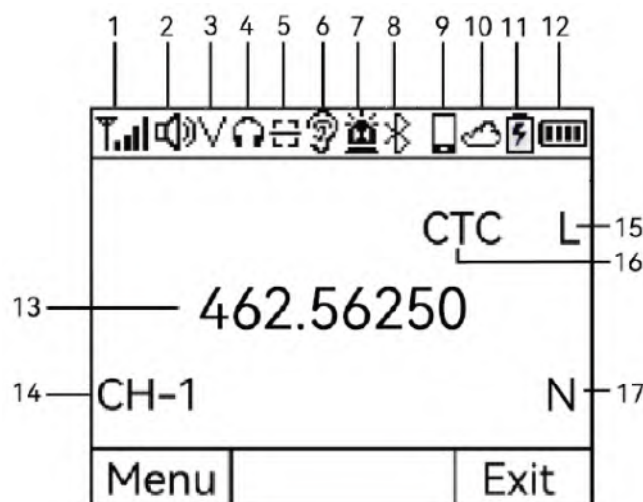
GROUP Call Key

Press in standby – the transceiver transmits on the group call channel.

SOS Key

Long press: Activate alarm. Short press: Deactivate alarm.

Standby Screen



No.	Description
1	Signal icon
2	Speaker icon
3	VOX icon
4	Headset icon
5	Scan icon
6	Monitor icon
7	Alarm icon
8	Bluetooth headset connection icon – Blue when connected, black when not connected

9	Bluetooth phone connection icon – Blue when connected, black when not connected
10	NOAA weather alert icon
11	Charging icon – Lightning bolt red while charging, green when fully charged
12	Battery level icon
13	Channel information display area (frequency, channel number, channel name)
14	Channel number
15	Transmit power: L\H "L": Low "H": High
16	Tone type: CTC\DCS\DCSI
17	Bandwidth: N "N": Narrow

Menu Description

Main Menu	Sub-Menu	Third-level Menu	Description
Main Set	Display Mode	/	Frequency, Name, Channel Number
	Squelch	/	Level 0 = squelch always open
	Back Light Level	/	Levels 1–15
	Back Light Time	/	Always on、 5s、 10s、 15s、 20s、 25s、 30s、 1min、 2min、 3min、 4min、 5min、 15min、 30min、 45min、 1h

Main Set	Call Light	/	Incoming call screen-on on/off
	Key Function	/	PTT key lock setting, side key custom function assignment
	Audio	/	Transmit beep, key beep, roger beep, voice prompt on/off, MIC gain setting
	VOX Switch	/	VOX on/off
	VOX Delay	/	500ms、 1s、 1.5s、 2s
	VOX Level	/	Levels 1–9
	Power Save	/	Power save mode setting
	Menu Timeout	/	Auto-exit menu time setting
	Work Alone Time	/	Off、 5min、 10min...55min、 60min
	TOT Again Time	/	Off、 5s、 10s、 15s、 20s、 25s、 30s
	All CTCDC Switch	/	All tone on/off
	Radio Information	/	Transceiver information
Channel	Channel Info	/	
	Bandwidth	/	Narrow 12.5kHz
	C-CDC	/	OFF, 1–50 standard analog tones, 51–155 standard digital tones (normal), 260 standard digital tones (inverted);
	R-CDC	/	
	T-CDC	/	
	TX Power	/	High, Low
	TxOutTime	/	Infinite、 5~300 seconds
	TxPermit	/	Always Allow、 CTC/DCS Mismatching、 Channel Free、 Receive Only
		Scan Condition	Channel Scan Set Scan Condition Carrier or tone – when set to carrier, tone matching is disabled
Scan	Channel Scan Set	Scan Mode	Scan Mode: Carrier, Time, Search
		TX Mode Set	TX Mode Set: Selected、 Last Active Channel、 Designated Channel

Scan	Channel Scan Set	Designated Channel	Designated channel selection – used when TX Mode is “Designated Channel”
		Priority Channel 1	Priority scan channel 1 setting
		Priority Channel 2	Priority scan channel 2 setting
		Channel List	Scan list display
		Hang time	1~16 seconds
Emergency	Alarm Channel Type	/	Alarm transmit channel selection: Current Channel, Designated Channel, Group Call Channel
	Alarm Mode	/	Alarm mode: Local Alarm, Remote Alarm
	Designated Channel	/	Designated alarm channel selection – valid when Alarm Channel Type is “Designated Channel”
Weather	Weather Alarm	/	/
	NOAA Channel List	/	CH01-CH12
Blue-tooth	BT Power	/	/
	BT Earphone	EAR Scan	/
		EAR Scan list	/
		EAR Paired Device	/
		EAR Disconnect	/
	BT SPK Gain		/
	BT MIC Gain		/
	CLON_TX	Whole machine clone	/
		Basic set Clone	/

		Channel Clone	/
		Basic set & Channel	/
	CLON_RX	/	/
Factory Reset	/	/	/

Functions

1、 Group Call

In standby, press the [GROUP] key – the transceiver transmits directly on the group call channel. The group call channel can be set via programming software.

2、 Local Alarm

Only the local transceiver emits an alarm tone. Long press SOS to start alarm, short press to stop.

3.Remote Alarm

The local transceiver emits an alarm tone and simultaneously transmits an alarm on the configured channel. Long press SOS to start, short press to stop.

4、 Lone Worker

If no operation is performed on the transceiver within the set time, the unit sounds a cancellation prompt and beeps for 15 seconds; after 15 seconds it automatically enters alarm mode. Can be set via menu or programming software.

5、 VOX

When VOX is activated, transmission starts by voice without pressing PTT. VOX level (1–9, default 5) determines sensitivity – a higher level requires lower volume to trigger. VOX delay adjustable: 500–2000 ms, default 1000 ms.

6.Automatic VOX activation

- a)When a headset is inserted, VOX automatically turns on. Pressing PTT temporarily cancels VOX;
- b)When the headset is removed, VOX returns to its previous state.

7、 .Squelch Level

Adjustable 0–9, default 4. Level 0 = squelch always open.

8、Transmit Permit Tone (Transmit Beep)

When enabled, a tone is heard after pressing PTT, indicating that you may start speaking.

9、Roger Beep

When you finish transmitting, the receiving party hears a short tone indicating the end of your transmission.

10、Voice Prompt

When enabled, key operations are announced by voice prompts.

11、Microphone Gain

Adjusts the sensitivity of the microphone (how loudly your voice is transmitted).

12. Power Save Level

To extend battery life, the transceiver alternates between sleep and active modes after a period of no transmission, reception, or key presses. Options: Off, 1:1, 1:2, 1:4. Default: Off.

13、Power Save Delay Time

Delay before entering power save mode. Options: 5s, 10s, 15s, 20s, 25s, 30s, 1min, 3min, 5min, 10min, 15min, 20min, 25min, 30min. Default: 1 min.

14、TOT Re-key Delay (TOT Again Time)

Delay time allowed before retransmitting after a transmit timeout. Options: Off, 5s, 10s, 15s, 20s, 25s, 30s. Default: Off.

15、All CTC/DCS Switch

Enables or disables all CTCSS/DCS tones globally. When off, tones on all channels are disabled; when on, channels revert to their individual tone settings.

16、Headset Key Lock

When using a headset, lock the PTT button on the transceiver. Can be enabled/disabled via programming software. Default: Off.

17、Side Key Customization

“SK1 short press, SK1 long press, SK2 short press, SK2 long press” can be assigned to: Off, Power switch, Monitor, Scan, VOX, NOAA.

18、Monitor

If a side key is programmed as Monitor, pressing it in standby turns on monitor (squellch override) – the monitor icon lights up. The transceiver monitors the primary standby channel.

19、 Low Battery Alarm

When battery voltage is low, the transceiver emits a periodic low battery tone. If voice prompts are enabled, a voice alert is also given.

20、 Scrambling

Scrambling on/off and scrambling frequency are set per channel via programming software.

21、 Scan

If a side key is programmed as Scan, pressing it in standby starts scanning on the primary standby channel – the scan icon appears. Scan parameters can be configured via menu or programming software.

22、 Data Cloning

Supports cloning of channel data, settings data, or full transceiver data. Before cloning, check battery health. Do not operate the transceiver during cloning. Cloning is one-to-one only. Procedure:

Receiver:

a. Press the **MENU** key to enter the menu interface. Press the  or  key to select "Radio Clon", then press the **MENU** key to enter the next-level menu.

b. Press the  or  key to select "CLON_RX".

c. Press the **MENU** key to confirm and enter Data Transfer Mode, awaiting reception.

d. Transmitter:

e. Press the **MENU** key to enter the menu interface. Press the  or  key to select "Radio Clon", then press the **MENU** key to enter the next-level menu.

f. Press the  or  key to select "CLON_TX", then press the **MENU** key to enter the next-level menu.

g. Press the  or  key to select the desired data transfer range.

h. Press the **MENU** key to confirm; the radio will automatically initiate data transfer transmission.

i. The receiving radio will automatically restart if no cloning data is received within 30 seconds.

j. The transmitting radio will automatically restart if no response is received from the receiving radio within 30 seconds.

23、 Factory Reset

After three consecutive confirmations, the transceiver will reset to factory defaults and restart. Cancellation is possible before the final confirmation. All transceiver information will be reset to factory settings.

24、 Tail Elimination

Configured via the programming software. Default setting is ON.

25、NOAA

Weather Alert Switch:

Weather Alert Channel Selection:

Under the "NOAA Channel List" menu, NOAA channel monitoring is enabled. Use the ▲ or ▼ key to toggle through and monitor different channels.

26、Bluetooth Power Switch

a. Press the **MENU** key to enter the menu interface. Press the **MENU** or  key to select "Bluetooth", then press the **MENU** key to enter the next-level menu.

b. Press the **MENU** or  key to select "BT Power", then press the **MENU** key to enter the next-level menu.

c. Press the **MENU** or  key to set the Bluetooth power switch to ON or OFF.

Press the **MENU** key to confirm and save.

27、Bluetooth Headset Pairing

When connecting a Bluetooth headset for the first time, first place the headset into pairing mode, then operate the menu to initiate a Bluetooth headset scan.

a. Press the **MENU** key to enter the menu interface. Press the **MENU** or  key to select "Bluetooth", then press the **MENU** key to enter the next-level menu.

b. Press the **MENU** or  key to select "BT Earphone", then press the **MENU** key to enter the next-level menu.

c. Press the **MENU** or  key to select "EAR Scan", then press the **MENU** key to enter the next-level menu.

d. Press the **MENU** key to confirm; the radio enters Bluetooth headset scanning mode. Upon successful scanning, the display will automatically jump to the "EAR Scan List" interface. If no devices are found, please re-initiate the scan.

e. In the "EAR Scan List" interface, press the **MENU** or  key to select the desired Bluetooth device, then press the **MENU** key to initiate pairing and connection.

f. Upon successful connection, the Bluetooth headset icon in the status bar will turn blue.

28、APP Connection with Mobile Phone

1, Writing Data to Radio

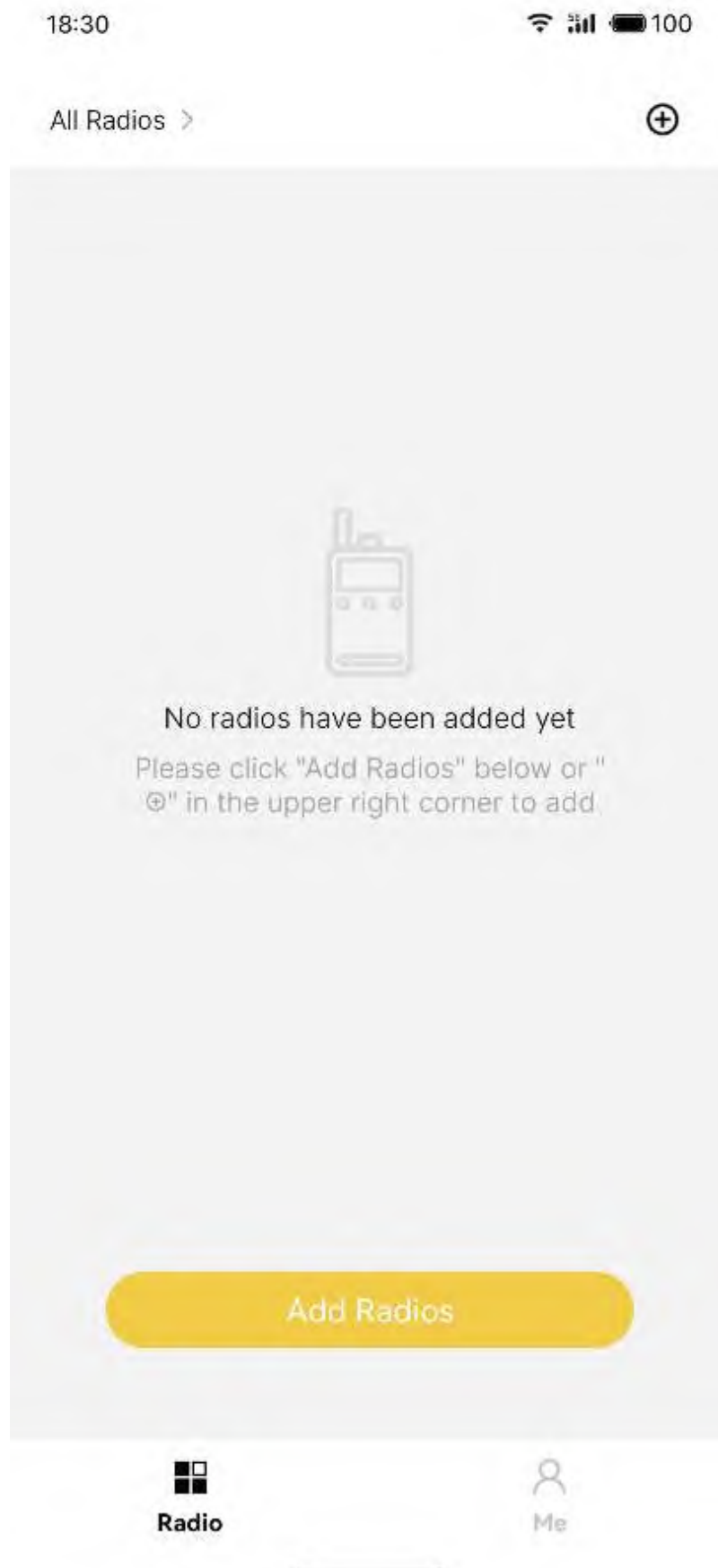
a. Turn on Bluetooth power

b. Open the mobile APP and tap "Add Radios" on the screen or the "+" icon in the upper right corner to enter the next-level menu interface.

c. Tap the "RB58F" option to initiate scanning. Once scanning is complete, select the device you wish to connect.

d. Upon successful connection, the APP will automatically return to the home

screen. The mobile phone icon in the radio's status bar will turn blue.
e. Tap the device on the APP home screen to read data from the radio.
f. After APP configuration is complete, the radio will restart to update the data.



4:20

4G



Add Radios



EZTalk 65



Ailunce HA2



RB58



RB658



RB58F



RB658P

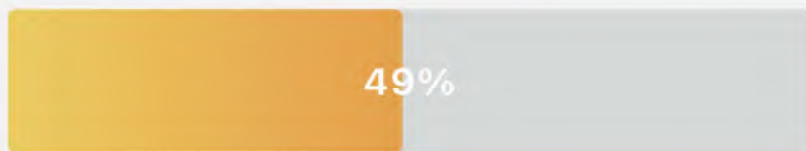
4:21

4G 



Read/Write

Reading data



4:21

4G



RB58F

Write Data

CH-1

Narrow

Low

Bandwidth

Tx Power

462.56250

67.0

462.56250

67.0

TX

CTCSS

RX

CTCSS



Basic Settings



Channel Settings



Read Radio successful



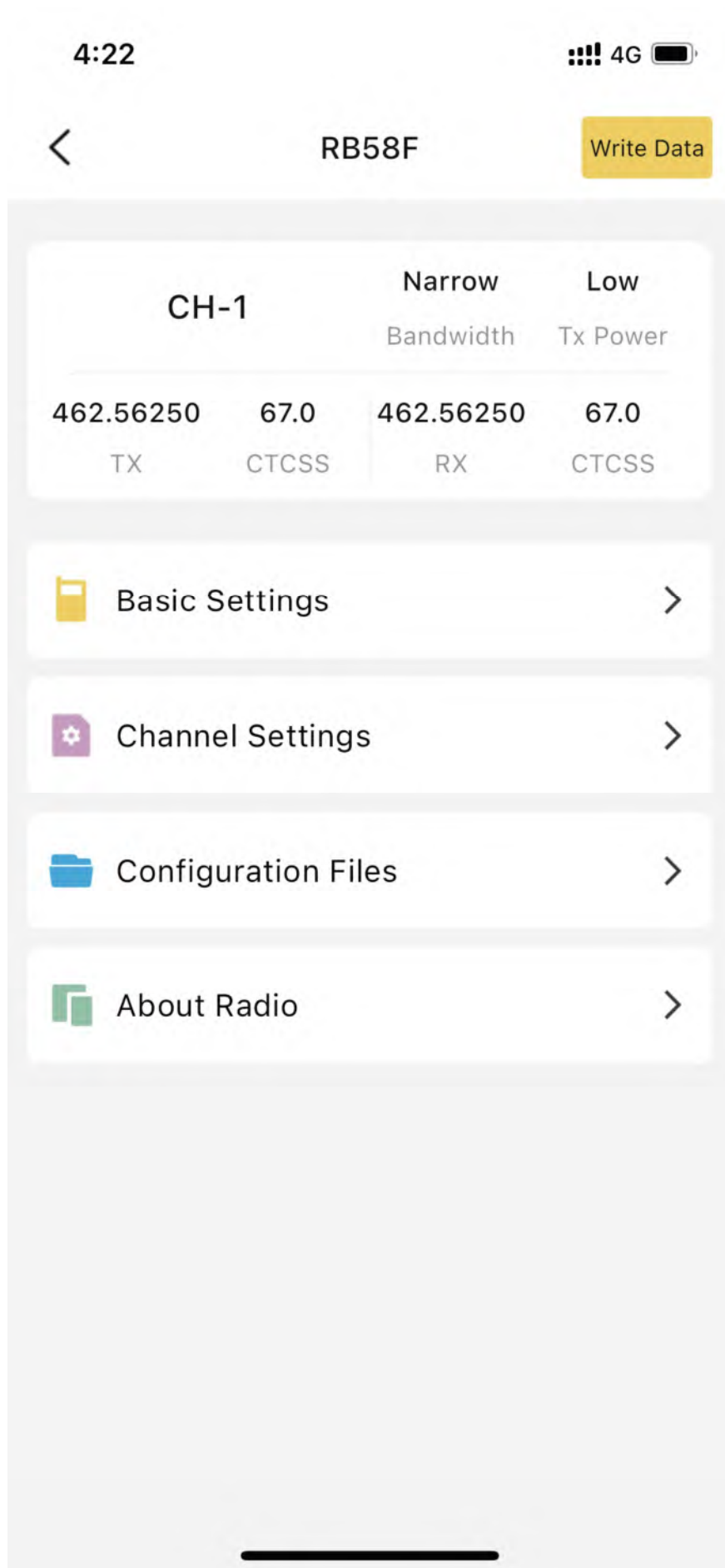
Configuration Files



About Radio



2, Reading Data from Radio



CDS and DCS List

CTCSS CHART (Hz)									
Num ber	Frequ ency	Num ber	Frequ ency	Num ber	Frequ ency	Num ber	Frequ ency	Num ber	Frequ ency
1	67.0	2	69.3	3	71.9	4	74.4	5	77
6	79.7	7	82.5	8	85.4	9	88.5	10	91.5
11	94.8	12	97.4	13	100.0	14	103.5	15	107.2
16	110.9	17	114.8	18	118.8	19	123.0	20	127.3
21	131.8	22	136.5	23	141.3	24	146.2	25	151.4
26	156.7	27	159.8	28	162.2	29	165.5	30	167.9
31	171.3	32	173.8	33	177.3	34	179.9	35	183.5
36	186.2	37	189.9	38	192.8	39	196.6	40	199.5
41	203.5	42	206.5	43	210.7	44	218.1	45	225.7
46	229.1	47	233.6	48	241.8	49	250.3	50	254.1

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

Num ber	DCS-I	Num ber	DCS-I	Num ber	DCS-I	Num ber	DCS-I	Num ber	DCS-I
106	D023I	107	D025I	108	D026I	109	D031I	110	D032I
111	D036I	112	D043I	113	D047I	114	D051I	115	D053I
116	D054I	117	D065I	118	D071I	119	D072I	120	D073I
121	D074I	122	D114I	123	D115I	124	D116I	125	D122I
126	D125I	127	D131I	128	D132I	129	D134I	130	D143I
131	D145I	132	D152I	133	D155I	134	D156I	135	D162I
136	D165I	137	D172I	138	D174I	139	D205I	140	D212I
141	D223I	142	D225I	143	D226I	144	D243I	145	D244I
146	D245I	147	D246I	148	D251I	149	D252I	150	D255I
151	D261I	152	D263I	153	D265I	154	D266I	155	D271I
156	D274I	157	D306I	158	D311I	159	D315I	160	D325I
161	D331I	162	D332I	163	D343I	164	D346I	165	D351I
166	D356I	167	D364I	168	D365I	169	D371I	170	D411I
171	D412I	172	D413I	173	D423I	174	D431I	175	D432I
176	D445I	177	D446I	178	D452I	179	D454I	180	D455I
181	D462I	182	D464I	183	D465I	184	D466I	185	D503I
186	D506I	187	D516I	188	D523I	189	D526I	190	D532I
191	D546I	192	D565I	193	D606I	194	D612I	195	D624I
196	D627I	197	D631I	198	D632I	199	D645I	200	D654I
201	D662I	202	D664I	203	D703I	204	D712I	205	D723I
206	D731I	207	D732I	208	D734I	209	D743I	210	D754I

RB58F/RB658P Factory Frequencies

FRS 22H			
No.	Frequency	CTCSS/DCS	Power
1	462.5625	67.0	High
2	462.5875	118.8	High
3	462.6125	127.3	High
4	462.6375	131.8	High
5	462.6625	136.5	High
6	462.6875	141.3	High
7	462.7125	146.2	High
8	467.5625	D243N	Low
9	467.5875	D032N	Low
10	467.6125	D047N	Low
11	467.6375	D051N	Low
12	467.6625	D053N	Low
13	467.6875	D065N	Low

14	467.7125	D116N	Low
15	462.5500	123.0	High
16	462.5750	D743I	High
17	462.6000	D3321	High
18	462.6250	127.3	High
19	462.6500	D243I	High
20	462.6750	D606N	High
21	462.7000	D7311	High
22	462.7250	136.5	High

*Note: To prevent radio interference caused by end-user transmissions on unauthorized frequencies, a user cannot modify channels preset by the manufacturer, equipment supplier, service technician, or maintenance personnel. Frequency range takes different variations according to the type of device you access because a radio designated for business use must comply with local rules, for example, in EU member states. If the type is subject to restrictions on putting into service or to requirements for authorization of use in your local district, your dealer or system administrator may set the operating frequency, and you cannot change the frequency. Please contact them for more information.

Technical Specifications

General Specifications	
Frequency Range	FRS: 462-467MHz
Number of Channels	FRS: 22
Audio Distortion	≤5%
Frequency Stability	±2.5ppm
Maximum Frequency Deviation	≤2.5KHz
Spurious Emissions	≤7uW
Modulation Type	FM
Reference Sensitivity	≤0.3uV
Squelch Opening Sensitivity	≤0.25uV
Adjacent Channel Selectivity	≥65dB
Spurious Response Rejection	≥70dB
Intermodulation	≥65dB
Transmit Current	≤1.5A
Operating Voltage	3.7V DC

Troubleshooting

The following table is intended to help you correct issues that are not related to device malfunctions. If you are unable to find the cause of the problem or resolve the issue using this chart, please contact your seller or a Retevis Service Center. For example:

Problem Example	Possible Cause	Solution
Transceiver does not turn ON.	The battery is exhausted.	Clean the battery terminals.
	Loose the connection of a battery pack (case).	Clean the battery terminals.
No sound comes from the speaker.	The volume level is too low.	Rotate Volume Knob to adjust the level.
	The squelch level is too high.	Adjust the squelch level.
	An external speaker is connected to the [SP] jack.	Check the external speaker connection.
	The CTCSS tone is not compatible.	Disable CTCSS/DCS or be sure setting matches incoming transmission.
Keypad is unresponsive	Keyboard locked or not.	Check if keypad has been locked.

	Keyboard locked or not.	Check if other keys are currently pressed.
Battery life lower than expected		Be sure the charger indicates the battery is fully charged. The battery pack capacity will naturally diminish over a number of charge cycles. This is the case with all lithium batteries.
Transmitting is impossible.		Set the transmit power level to High.
	The PTT Lock function is activated.	Turn OFF the PTT Lock function on the MENU screen.
	The Busy Lockout function is activated.	Turn OFF the Busy Lockout function on the MENU screen.
	The transmit frequency is out of the amateur radio band.	Set the transmit frequency within the amateur radio band.

RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR TWO-WAY RADIOS



CAUTION!

Before using this device, please read this guide which contains important operating instructions for safe usage, control information and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards. User' instructions should accompany the device when transferred to other users.

Unauthorized modification and adjustment

Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority granted by the local government radio management departments to operate this radio and should not be made. To comply with the corresponding requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services.

Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the local government radio management departments equipment authorization for this radio could violate the rules.

Radio License

Governments keep the radios in classification. Two-way radios are only operated on authorized radio frequencies that are regulated by the local radio management departments (such as FCC, ISED, OFCOM, ANFR, BFTK, Bundesnetzagentur, and so on.).The detailed classification and the use of your two radios, please contact the local government radio management departments.Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

FCC Requirements

This device complies with part 15 of the FCC Rules. Operations 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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device. 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 instructions, 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 correct 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.

Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that all electrical and electronic products, batteries, and accumulators must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws and rules in your area.

RF Safety

This two-way radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. RF energy, which when used improperly, can cause biological damage. Please refer to the following websites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits: <http://www.who.int/en/>

Keeping the radio at a proper distance is important as RF exposure decreases with increasing distance from the proper antenna. A proper antenna is the antenna supplied with this radio by the manufacturer or specifically authorized by the local authority for use with this radio. This radio can only be operated by use of an antenna of a type and maximum (or lesser) gain approved for the transmitter under regulations and rules. This transmitter must operate with the antenna(s) documented and in Push-to-Talk and body-worn configurations as documented. Using Authorized accessories is important because the use of Non-Retelis accessories may result in exposure levels, which exceed the IEEE/ICNIRP RF exposure limits.

Transmit no more than the rated duty factor of 75% of the time. Transmitting necessary information or less, is important because the radio generates measurable RF energy exposure only when transmitting in terms of measuring for standards compliance. Some measures to reduce your RF exposure include:

- Reduce the amount of time spent using your wireless device.
- Use a speakerphone, earpiece, headset, or hands-free accessory to reduce proximity to the head (and thus head exposure). While wired earpieces may conduct some energy to the head and wireless earpieces also emit a small amount of RF energy, both wired and wireless earpieces remove the greatest source of RF energy (handheld device) from proximity to the head and thus can greatly reduce total exposure to the head.
- Increase the distance between wireless devices and your body.

This radio is designed for and classified as “Occupational/Controlled Use

Only”. Occupational/Controlled environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential of exposure. It meaning a radio must be used only by individuals aware of the hazards, and the ways to minimize such hazards; NOT intended for use in a General population/uncontrolled environment.



Hand-held Mode

To control your exposure and ensure compliance with the controlled environment exposure limits, always adhere to the following procedure:

- To receive calls, release the PTT button.To transmit (talk), press the Push-to-Talk (PTT) button in front of the face.
- Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) at least one inch (2.5 centimeters) away from the nose or lips.

Electromagnetic Interference/Compatibility

Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility. During transmissions, your radio generates RF energy that can possibly cause interference with other devices or systems..To avoid such interference, turn off the radio in areas where signs are posted to do so,such as hospitals or health care facilities

Persons with pacemakers, Implantable cardioverter defibrillators (ICDs) or other active implantable medical devices should:

- Consult with their physicians regarding the potential risk of interference from radio frequency transmitters, such as portable radios (poorly shielded medical devices may be more susceptible to interference).
- Turn the radio OFF immediately if there is any reason to suspect that interference is taking place.
- Do not carry the radio in a chest pocket or near the implantation site, and carry or use the radio on the opposite side of their body from the implantable device to minimize the potential for interference.

Hearing Aids: Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices: If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Turn off your radio power in the following conditions:



WARNING

- Turn off your radio before removing or installing accessory.
- Turn off your radio prior to entering any area with a potentially hazardous or explosive atmosphere. Only radio types that are especially qualified should be used in such areas as “Intrinsically Safe”.

Note: The areas with potentially explosive atmosphere referred to above include blasting caps, blasting area, inflammable gas, dust particles, metallic powders, grain powders, fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles (such as grain, dust or metal powders) and any other area where you would normally be advised to turn off your vehicle engine. Areas with potentially explosive atmospheres are often – but not always posted.

- Do not use any radio that has a damaged antenna. If a damaged antenna comes into contact with the skin when the radio is in use, a minor burn can result.
- Turn off your radio when on board an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

Use of Communication Devices While Driving



- Always check the laws and regulations on the use of radios in the areas where you drive. Use of Communication Devices, for example, mobile radio, may not be allowed.
- Give full attention to driving and to the road.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions or regulations so require.
- Do not place a portable radio in the area over an air bag or in the air bag deployment area. The radio may be propelled with great force and cause serious injury to occupants of the vehicle when the air bag inflates.
- Turn off your radio when taking on fuel or parked at gasoline service stations.

Protect your hearing



WARNING

- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings.
- Turn down the volume before adding headset or earpiece.
- Limit the amount of time you use headsets or earpieces at high volume.
- When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear
- Use careful with the earphone maybe possible excessive

	sound pressure from earphones and headphones can cause hearing loss Note: Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the radio's volume, the less time is required before your hearing could be affected. Hearing damage from loud noise is sometimes undetectable at first and can have a cumulative effect.
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 WARNING	The plug of adapter is considered as disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible. Don't fully drain: Aim to recharge when the battery hits about 20% for battery, keeping it above critical levels. Don't store batteries empty; charge them to 60-80% for ideal long-term storage to extend storage periods. If your device or battery is not used for longer than seven days, please perform regular maintenance checks and recharge the battery periodically to maintain optimal battery levels. Following these guidelines will not only protect battery life but also ensure that devices can return to active duty without issue. Eliminating the Risk, keep away from the flammable materials, heat sources and ignition sources while a battery is charged. Charging should only take place in a well-ventilated area and when someone is about to be aware and react to a potential issue. To reduce risk of fire, a battery should not be charged for more than 4 hours and disconnect charger from line voltage (AC outlet) by removing main plug even if the battery is not completely charged. Don't leave a device unattended while charging. Disconnect the charger when the device is fully charged: do not overcharge the device.
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Authorized Accessories List

- For a list of Retevis-approved accessories for your radio model, visit the website: <http://www.Retevis.com>
- Contact Retevis for assistance regarding repairs and service.

Guarantee

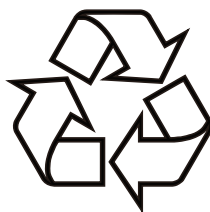
Model Number: _____
Serial Number: _____
Purchasing Date: _____
Dealer: _____ Telephone: _____
User's Name: _____ Telephone: _____
Country: _____ Address: _____
Post Code: _____ Email: _____

Remarks:

- 1.This guarantee card should be kept by the user, no replacement if lost.
- 2.Most new products carry a two-year manufacturer's warranty from the date of purchase. Further details, pls read <http://www.retevis.com/after-sale/>
- 3.The user can get warranty and after-sales service as below:
 - Contact the seller where you buy.
 - Products Repaired by Our Local Repair Center
- 4.For warranty service, you will need to provide a receipt proof of purchase from the actual seller for verification

Exclusions from Warranty Coverage:

- 1.To any product damaged by accident.
- 2.In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs.
- 3.If the serial number has been altered, defaced, or removed.



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Made in China

说明书要求

尺寸：90*130MM

印刷：黑白印刷

装订：胶黏订

纸张材质：双胶纸

本页无需印刷