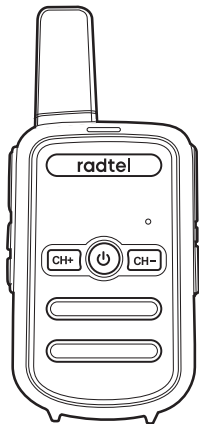


radtel

INSTRUCTION MANUAL



RT12

License-free PMR446 Radio (EU)

License-free FRS Radio(US/CA)

English-Deutsche-Italiano-français-Español-Nederlands-русский

WARNINGS

Product safety and RF Exposure for two way radio:

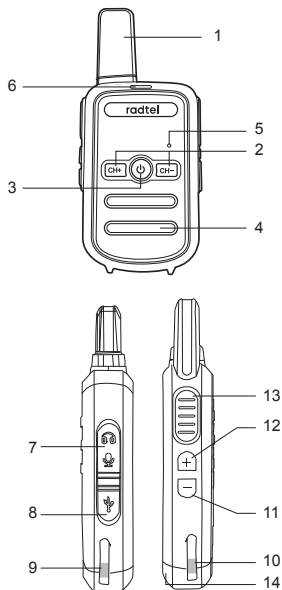


Before using this two way radio, please read the manual which contains important operating instructions for safe usage, RF Energy Awareness, control information and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards, and also read the operational instructions for safe use.

◆◆ Contents

● Function Operation -----	01
● Main characteristics -----	06
● Compliance with RF Exposure Standards -----	10
● Local Government Regulations-----	12
● Radio License-----	12
● FCC ID-----	12
● INTRODUCTION -----	13
● Declaration of conformity -----	18

◆◆ Function Operations



(English)

Main controls and parts of the radio

1. Antenna
2. Channel adjust : press CH+ or CH- to select the desired channel
3. Power button- Long press to power on and long press again to power off.
4. Speaker
5. Built-in microphone
6. Led indicator: RED: TX; GREEN: RX.
7. Earphone/microphone or Programming port
8. Charging Port
9. Desktop charger connector(left)
10. Desktop charger connector(Right)
11. Reduce the volume or long press to lock keypad
12. Increase speaker's volume or long press to open squelch
13. PTT: push this button to transmit, release it to receive.
14. To Open back plastic cover

(Deutsche)

Hauptbedienelemente und Aufbau des Funkgeräts

1. Antenne
2. Kanaleinstellung: Drücken Sie CH + oder CH-, um den gewünschten Kanal auszuwählen
3. Ein- / Ausschalter -: Zum Einschalten lange drücken und zum Ausschalten noch einmal lange drücken.
4. Lautsprecher
5. Eingebautes Mikrofon
6. LED-Anzeige: rot: TX (Sendemodus); Grün: RX (Empfangsmodus)
7. Kopfhörer / Mikrofon oder Programmieranschluss
8. Aufladestation
9. Anschluss für Desktop-Ladegerät (links)
10. Anschluss für Desktop-Ladegerät (rechts)

11. Reduzieren Sie die Lautstärke oder drücken Sie lange, um die Tastatur zu sperren
12. Erhöhen Sie die Lautstärke des Lautsprechers oder drücken Sie lange, um die Rauschsperrung zu öffnen
13. PTT: Drücken Sie diese Taste zum Senden und lassen Sie sie zum Empfangen los.
14. Zum Öffnen der Plastikabdeckung

(Italiano)

Descrizione delle parti della radio

1. Antenna
2. Regolazione canale: premere CH + o CH- per selezionare il canale desiderato
3. Pulsante di accensione: premere a lungo per accendere e premere di nuovo a lungo per spegnere.
4. Altoparlante 5. Microfono
6. Indicatore led: rosso: trasmissione, verde: ricezione
7. Auricolare / microfono o porta di programmazione
8. Porta di ricarica
9. Connettore caricabatteria da tavolo (a sinistra)
10. Connettore caricabatteria da tavolo (a destra)
11. Ridurre il volume o premere a lungo per bloccare la tastiera.
12. Aumentare il volume dell'altoparlante o premere a lungo per aprire lo squelch
13. PTT: premere questo tasto per trasmettere, rilasciatelo per ricevere.
14. Per aprire la copertura di plastica posteriore

(français)

Commandes principales et elements de la radio

1. Antenne
2. Réglage du canal: appuyez sur CH + ou CH- pour sélectionner le canal souhaité
3. Bouton d'alimentation: appuyez longuement pour allumer et appuyez longuement à nouveau pour éteindre.
4. Haut-parleur
5. Microphone intégré
6. Voyant rouge : Transmission ; vert : Réception.
7. Écouteur / microphone ou port de programmation
8. Port de chargement
9. Conector del cargador de escritorio (izquierda)
10. Conector del cargador de escritorio (derecho)
11. Réduisez le volume ou appuyez longuement pour verrouiller le clavier.
12. Augmentez le volume du haut-parleur ou appuyez longuement pour ouvrir le silencieux
13. PTT : appuyer sur ce bouton pour transmettre, le relâcher pour recevoir.
14. Para abrir la tapa de plástico trasera

(Español)

Partes y mandos de la radio

1. Antena
2. Ajuste de canal: presione CH + o CH- para seleccionar el canal deseado
3. Botón de encendido: mantenga presionado para encender y mantenga presionado nuevamente para apagar.
4. Altavoz
5. Micrófono
6. Led indicador: Rojo: TX; Verde: RX.
7. Auricular / micrófono o puerto de programación

8. Puerto de carga
9. Tecla Función1: Presión breve: activación función Monitor. Presión larga: activación función VOX
10. Tecla Función2: Presión larga: activación función SCAN
11. Reducir el volumen o mantener pulsado para bloquear el teclado.
12. Aumente el volumen del altavoz o mantenga presionado para abrir el silenciador
13. PTT: pulse para transmitir y suelte para recibir.
14. Pour ouvrir le couvercle en plastique arrière

(Nederlands)

Belangrijkste bedieningselementen en onderdelen van de radio

1. Antenne
2. Kanaalaanpassing: druk op CH + of CH- om het gewenste kanaal te selecteren
3. Aan / uit-knop - Lang indrukken om in te schakelen en nogmaals lang indrukken om uit te schakelen.
4. Luidspreker
5. Ingebouwde microfoon
6. Led-indicator: ROOD: TX; GROEN: RX.
7. Oortelefoon / microfoon of programmeerpoort
8. Oplaadpoort
9. Connector bureaulader (links)
10. Connector voor bureaulader (rechts)
11. Verklein het volume of druk lang om het toetsenbord te vergrendelen
12. Verhoog het volume van de spreker of druk lang om de squelch te openen
13. PTT: druk op deze knop om te zenden, laat los om te ontvangen.
14. Om plastic deksel terug te openen

(русский)

Основные органы управления и части радио

1. Антенна
2. Настройка канала: нажмите CH + или CH-, чтобы выбрать желаемый канал.
3. Кнопка питания. Нажмите и удерживайте, чтобы включить, и снова нажмите, чтобы выключить.
4. Спикер
5. Встроенный микрофон.
6. Светодиодный индикатор: КРАСНЫЙ: TX; ЗЕЛЕНый: RX.
7. Наушники / микрофон или порт программирования.
8. Порт зарядки
9. Разъем настольного зарядного устройства (слева).
10. Разъем настольного зарядного устройства (правый)
11. Уменьшите громкость или нажмите и удерживайте, чтобы заблокировать клавиатуру
12. Увеличьте громкость динамика или нажмите и удерживайте, чтобы открыть шумоподаватель.
13. PTT: нажмите эту кнопку для передачи, отпустите для приема.
14. Открыть заднюю пластиковую крышку

Main characteristics

- PMR446 Transceiver
- Voice annunciation
- Output power: $\leq 500\text{Mw}$ ERP
- Channel spacing: 12.5KHz
- Scan
- TOT
- Busy channel lockout
- Battery save
- Monitor
- Squelch

- VOX function
- Low battery warning
- CTCSS/DCS

Eigenschaften

- PMR446 Handfunkgerät
- Sprachansage
- Ausgangsleistung: ≤ 500 MW ERP
- Kanalabstand: 12,5 kHz
- Scannen
- TOT
- Bessperung des besetzten Kanals
- Batterie sparen
- Überwachen
- Squelch
- VOX-Funktion
- Warnung vor schwacher Batterie
- CTCSS / DCS

Caratteristiche principali

- Ricetrasmittitore PMR446
- Annuncio vocale
- Potenza in uscita: ≤ 500 Mw ERP
- Spaziatura dei canali: 12,5 KHz
- Scansione
- TOT
- Blocco canale occupato
- Risparmio della batteria
- Tenere sotto controllo
- Squelch
- Funzione VOX

- Avviso di batteria scarica
- CTCSS / DCS

Características principais

- Émetteur-récepteur PMR446
- Annonce vocale
- Puissance de sortie: ≤ 500 MW ERP
- Espacement des canaux: 12,5 KHz
- Analyse
- TOT
- Verrouillage de canal occupé
- Économie de batterie
- Surveiller
- Silencieux
- Fonction VOX
- Avertissement de batterie faible
- CTCSS / DCS

Características principales

- Transceptor PMR446
- Anuncio de voz
- Potencia de salida: ≤ 500 Mw ERP
- Espaciado de canales: 12,5 KHz
- Escanear
- TOT
- Bloqueo de canal ocupado
- Ahorro de batería
- Monitor
- Silenciamiento
- Función VOX
- Advertencia de batería baja
- CTCSS / DCS

Belangrijkste kenmerken

- PMR446-zendontvanger
- Gesproken aankondiging
- Uitgangsvermogen: ≤ 500 MW ERP
- Kanaalafstand: 12,5 kHz
- Scannen
- TOT
- Blokkering van drukke kanalen
- Batterijbesparing
- Monitor
- Squelch
- VOX-functie
- Waarschuwing voor lage batterijspanning
- CTCSS / DCS

Основные показатели

- Приемопередатчик PMR446
- Голосовое оповещение
- Выходная мощность: ≤ 500 МВт ERP
- Расстояние между каналами: 12,5 кГц
- Сканировать
- TOT
- Блокировка занятого канала
- Экономия заряда батареи
- Монитор
- шумоподаватель
- Функция VOX
- Предупреждение о низком заряде батареи
- CTCSS / DCS

- All articles displaying this symbol on the body, packaging or instruction manual of same, must not be thrown away into normal disposal bins but brought to specialised waste disposal centres. Here, the various materials will be divided by characteristics and recycled, thus making an important contribution to environmental protection.
- Alle Artikel, die auf der Verpackung oder der Gebrauchsanweisung dieses Symbol tragen, dürfen nicht in den normalen Mülltonnen entsorgt werden, sondern müssen an gesonderten Sammelstellen abgegeben werden. Dort werden die Materialien entsprechend ihrer Eigenschaften getrennt und, um einen Beitrag zum Umweltschutz zu liefern, wiederverwertet.
- Tutti gli articoli che riportano questo simbolo sul corpo, sull'imballaggio o sul manuale di istruzioni degli stessi, non devono essere gettati nei normali contenitori per lo smaltimento ma portati a centri specializzati per lo smaltimento dei rifiuti. Qui i vari materiali saranno suddivisi per caratteristiche e riciclabili, dando così un importante contributo alla salvaguardia dell'ambiente.
- Tousles articles présentant ce symbole sur le corps, l'emballage ou le manuel d'utilisation de celui-ci ne doivent pas être jetés dans des poubelles normales mais être amenés dans des centres de traitement spécialisés. Là, les différents matériaux seront séparés par caractéristiques et recyclés, permettant ainsi de contribuer à la protection de l'environnement
- Todoslos artículos que exhiban este símbolo en el cuerpo del producto, en el embalaje o en el manual de instrucciones del mismo, no deben ser desechados junto a los residuos urbanos normales sino que deben ser depositados en los centros de recogida especializados. En estos centros, los materiales se dividirán en base a sus características y serán reciclados, para así poder contribuir de manera importante a la protección y conservación del medio ambiente.
- Alle artikelen met dit symbool op de behuizing, verpakking of instructiehandleiding mogen niet in de normale afvalbakken



worden weggegooid, maar moeten naar gespecialiseerde afvalverwerkingscentra worden gebracht. Hier worden de verschillende materialen opgedeeld in eigenschappen en recylen, wat een belangrijke bijdrage levert aan de bescherming van het milieu.

Compliance with RF Exposure Standards

This two way radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. It uses radio frequency (RF) energy or radio waves to send and receive calls. RF energy is one form of electromagnetic energy. Other forms include, but are not limited to, sunlight and x-rays. RF energy, however, should not be confused with these other forms of electromagnetic energy, which when used improperly, can cause biological damage. Very high levels of x-rays, for example, can damage tissues and genetic material.

Experts in science, engineering, medicine, health, and industry work with organizations to develop standards for safe exposure to RF energy. These standards provide recommended levels of RF exposure for both workers and the general public. These recommended RF exposure levels include substantial margins of protection.

All RADTEL two-way radios are designed, manufactured, and tested to ensure they meet government-established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of two-way radios. These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it.

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/>



Local Government Regulations

When two-way radios are used as a consequence of employment, the Local Government Regulations requires users to be fully aware of and able to control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a product label directing users to specific user awareness information. Your Retevis two way radio has a RF Exposure Product Label. Also, your Retevis user manual, or separate safety booklet includes information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

Radio License

Governments keep the radios in classification, most of the classified walkie-talkie need to get local government License, and operation is allowed. The detailed classification and the use of your two radios, please contact the local government radio management departments. For the following specified classification: the USA/CA FRS, Australian CB, EU PMR446, the individual license is not required.

FCC ID

The FCC ID means: This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environments at operating duty factors of up to 50% talk-50% listen and is approved for occupational use only.

IC ID

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device



The CE marking means: Hereby, Xiamen Radtel Electronics Co.,Ltd declares that the radio equipment type is in compliance with the RED

Directive 2014/53/EU and the ROHS Directive 2011/65/EU and the WEEE Directive 2012/19/EU. The full text of the EU declaration of conformity is available in this manual or at the following internet address: www.radtel.com.cn

INTRODUCTION:

- Xiamen Radtel Electronics Co.,Ltd thank you for the trust deposited in this product, we are convinced that it will be highly pleased with the quality and operation functions of this equipment.
- For a use of the sure equipment, read in a complete way these instructions manual.
- This transceiver has been manufactured for users that specify a equipment of communication of easy operation, of the highest quality and yield besides an excellent reliability.
- The transceiver that he has just purchased has been manufactured of agreement with a strict quality control of the manufacturing company.
- This equipment is given in a packing that muffles the blows and vibrations of the transport, guaranteeing this way an excellent state in the acquisition moment.
- After retiring the packing, verify that the equipment or their accessories are not damaged. In the event of doubt it doesn't use and contact the Technical Service or distributor.
- The packing materials (plastic bags, etc.), they should not be left within reach of the children, since they are a potential danger source.
- The manufacturer and the salesperson decline any responsibility for derived damages of an inadequate, incorrect or imprudent use of the equipment.
- It is important to stress that some of the functions of the equipment are explained in relation to information given in remote or previous chapters, if you only read some concrete parts of this manual, he will take a risk to not understanding the complete explanation of the functions of those that it prepares the equipment.
- Attention to the notes included in the sections squares shady.
- Make sure of understanding all the indications of this manual correctly.

- Keep this manual for future consults.
- The equipment reparations or internal adjustments should always be carried out in a Technical Authorized Service.
- Equipment internal manipulation, alteration or change of the technical characteristics performed by personal unaware to the Technical Service, it invalidates the guarantee.
- This equipment has come out of the distributor's warehouses under technical use conditions adapted to the effective country legislation of use this transceiver. To change this characteristics, to carry out internal adjustments or not authorized modifications can take to an illegal use of the equipment constituting an infraction sanction as well as to generate interferences that can harm to other legally established communications.
- Improper use of this equipment is exclusive responsibility of the user.
- Free use transceiver, it is not necessary administrative authorization or licenses for its use and it is dedicated to be used in the following EU countries.

AT	BE	DK	FI	FR	DE	GR	IS
IE	IT	LI	LU	NL	NO	PT	SP
SE	CH	GB	CY	CZ	EE	HU	LV
LT	MT	PL	SK	SI	BG	RO	

Notes: - The transceiver operation can be prohibited in certain places or enclosures; follow the use restrictions. - Follow the country legislation in the use of transceivers radiocommunications.



- Only use this equipment for the end that this has been manufactured. The manufacturer and the salesperson won't accept any responsibility and the guarantee will be invalid in the event of inadequate use of the transceiver.
- This equipment doesn't have components that the user can repair. Always consult to the Authorized Technical Service for any repair.
- It should not put into operation the equipment neither to turn off it installing and removing the battery pack. Always use the ON/OFF control.
- Install the battery pack and the accessories (optionals) correctly, according to the indications given in this instruction manual.
- Never transmit with the transceiver if the antenna is damaged.
- Don't transmit with the transceiver for extended period of time.
- Don't touch the antenna with the hand or with any part of the body when the equipment is transmitting.
- In the event malfunction of the transceiver or of their battery charger (scent to burnt, smoke, etc.), turn off it immediately or disconnect the battery charger of the AC wall outlet and consult to the Technical Service.
- Don't introduce any object for the holes of the speaker or for the transceiver connectors.
- If it uses an external headset (optional), reduce to the possible the maximum volume level; avoid levels of very high audio.
- Don't expose the equipment or the battery charger direct to the water, direct to the sunlight for an extended period of time, not place near a heat source (radiators, etc.) to blows, to the powder excess or dirt, to the fire, to explosive or another type of dangerous conditions. Don't stored the transceiver inside a vehicle that is parked in the sunlight.
- Avoid the humidity condensation. The air humidity is deposited in the transceiver when place of a cold atmosphere to other warm, making that the equipment doesn't work correctly. If condensation takes place in the equipment, clean a dry cloth and wait to that dries off to light it.
- Don't place anything on the transceiver that can spill out on the same one.

- If the transceiver caused interferences in the video recorder, DVD, radio and television receiver, or to any other electronic equipments, take it away from the apparatus in question.
- Don't use this transceiver in the vicinity of other electronic equipments, especially next to medical equipments. It can cause interferences in other equipments.
- Turn off and do not use the equipment in areas where their use is restricted or prohibited (e.g. coal gas , areas with explosion atmosphere, areas where it can interference the operation of other equipments, on board airships, airports, etc.).
- Don't operate this transceiver while it is driving a vehicle, use hands free systems ("VOX" function) and respect the traffic police indications.
- To clean the equipment and/or the battery charger being OFF and with an antistatic cloth (preferably) or a humid (not wet) cloth.
- Don't pulverize directly with any liquid or product on the transceiver, battery pack or battery charger and never use for their cleaning polish home products, detergents, alcohol or solvent.
- Don't use for the cleaning a dry cloth, it could cause static sock.
- The use of not compatible accessories with the transceiver they could limit the operation of the transceiver, and even to damages invalidating the guarantee.
- Explosion risk if it replaces the battery pack for an incompatible one.



Approved Accessories

- For a list of Radtel-approved accessories for your radio model, scan the QR code on back of the manual.

Channel No.	(MHz)
1	462.5625
2	462.5875
3	462.6125
4	462.6375
5	462.6625
6	462.6875
7	462.7125
8	467.5625
9	467.5875
10	467.6125
11	467.6375
12	467.6625
13	467.6875
14	467.7125
15	462.5500
16	462.5750



Declaration of conformity

EU DECLARATION OF CONFORMITY



This declaration of conformity is issued under the sole responsibility of the manufacturer

Issuer:

Business Name: XIA MEN RUI DE ER DIAN ZI KE JI YOU XIAN GONG SI

Address: Jin Yi Wu Li 1 Hao 502, Xiamen Shi Hu Li Qu, Fujian, China 361004

Country: China

Product(s):

Name: two way radio

Model No.: RT12



We declare that the product described above, to which this declaration of conformity refers to, is in conformity with the relevant Union harmonization legislation:

-RED directive 2014/53/EU

through the technical standards/specifications specify below:

-EN 303 405 V1.1.1 (2017-05)

EN 301 489-1 V2.2.3 (2019-11)

EN 301 489-5 V2.2.1 (2019-04)

EN 62368-1: 2014+A11: 2017

EN 50566:2017

Signed for and on behalf of:

Xiamen City 2021-4-6

(place and date of issue)

Manager Kevin

(name, function)


(signature)

This DoC compliance statement document is not authorized for commercial use.

Shenzhen Qudayi Testing Co., LTD
528, Lankun Building, No. 213, Minkang Road,
Zhangkang Community, Minzhi Street, Longhua District, Shenzhen

TEL: 0755-21905330
Mobile: 13623582994
Mail: info@ouda1.com



FCC& RSS Warning:

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

SAR tests are conducted using standard operating positions accepted by the FCC/ISED with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model is available for sale to the public, it must be tested and certified to the FCC/ISED that it does not exceed the exposure limit established by the FCC/ISED. Tests for each product are performed in positions and locations as required by the FCC/ISED.

For body worn operation, this device has been tested and meets the FCC/ISED RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that

Contains no metal.

To maintain compliance with the FCC/ISED's RF exposure guidelines, hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face.

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment. In order to comply with the FCC/ISED RF exposure requirements, the antenna installation must comply with the following:

Users must be fully aware of the hazards of the exposure and able to exercise control over their RF exposure to qualify for the higher exposure limits.

Your wireless hand-held portable transceiver contains a low power transmitter. This product sends out radio frequency (RF) signals when the Push-to-Talk (PTT) button is pressed.

The device is authorized to operate at a duty factor not to exceed 50%.

This device complies with ISED licence-exempt RSS standard (s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED licenciables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ISED exposition aux radiations

Cet équipement est conforme avec ISED les limites d'exposition aux rayonnements définies pour un contrôlé environnement.

Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou émetteur.

Cet équipement doit être installé et utilisé avec un minimum de 2.5cm de distance entre le radiateur et votre corps.



XIAMEN RADTEL ELECTRONICS CO.,LTD.

502, No.1, Jinyi Wuli, Huli, Xiamen, Fujian, China 361004

Web: www.radtels.com

Email: info@radtels.com

IC

CE

FC

