

TWO WAY RADIO

User Manual



One-Touch Copy



Type-C Charging



CTCSS/DCS

Important Notice

Please read this guide completely before using this device. This is a general edition: features are only available on your unit once enabled by your dealer or via programming software.

If this guide conflicts with the product label, the included quick-start guide, local frequency authorization, or applicable regulations, those sources take precedence.

1.Package Contents

After unpacking, check all items against the list below before discarding any packaging. Actual configuration may vary by model, sales region, and order.

Item	Standard Quantity
Radio unit	1
Approved antenna	1
Rechargeable Li-ion battery	1
Charging cradle and power adapter	1 set
Belt clip and screws	1 set
Product documentation	1

If any item is missing, damaged, or does not match your order, contact your dealer before use. Use only antennas, batteries, chargers, and accessories approved for this model.

2. Controls, Keys & Indicators

Control / Key	Function
Antenna	Transmits and receives RF signals. A properly installed antenna must be fitted whenever the device is in use.
Power / Volume knob	Turns the radio on and off, and adjusts receive volume.
Channel selector	Selects the programmed operating channel.
PTT (transmit) key	Press and hold to transmit; release to receive.
P1 / P2 programmable keys	Function set by your dealer or programming software — can be assigned to monitor, scan, alarm, etc.
LED indicator	Typically red while transmitting, green while receiving, and flashing red on low battery; exact behavior is software-configurable.
Microphone / speaker	Speak toward the microphone; received audio plays from the speaker.
Accessory / programming port	Connect only approved audio accessories or a programming cable.

3. Safety & Regulatory Information

Warning: this device is a radio transmitter. Operate it only on frequencies, with authorization, and under RF exposure conditions permitted where it is used. Do not transmit if the antenna is missing or damaged.

RF Exposure

- Hold the device upright while transmitting, keeping the antenna at least 2.5 cm (1 in) from your face. Use only approved belt-worn accessories, and observe any spacing requirements stated on the RF exposure label or in the regulatory documentation.
- Unless the product documentation states otherwise, keep transmit time to no more than a 50% duty cycle.

Operating Safety

- Power off in areas where radio or RF device use is posted as prohibited.
- Power off before entering areas with a potentially explosive atmosphere (flammable gas, dust, or vapor), unless this specific model has been certified and labeled for that environment.

Hearing Protection

- Start at low volume and increase gradually to a comfortable level. Do not hold the speaker directly against your ear at high volume.

Compliance

- Unauthorized modification may void your authorization to operate this device.

- This general guide does not itself constitute a declaration of FCC, ISED, CE/RED, UKCA, ATEX, or other certification. Compliance declarations, labeling, SAR/RF exposure statements, and regulatory disclosures for the final model must be completed before release.

4. Battery, Charging & Installation

Battery Safety

- Use only the specified Li-ion battery and an approved charger.
- Charge indoors in a dry, ventilated location within the temperature range stated in the charger and battery documentation. Do not charge near flammable materials.
- Do not short-circuit, crush, puncture, disassemble, heat, incinerate, or immerse the battery in water. Stop use immediately if the battery swells, leaks, overheats, is damaged, or emits an unusual odor.
- Power off the radio before installing or removing the battery. Slide the battery along the guide rails until it locks into place.
- Recharge promptly when battery level is low. For long-term storage, keep the battery partially charged in a cool, dry place.

Charging Steps

1. Connect an approved charger to a suitable AC power source.
2. Place the radio, with battery installed, into the charging cradle — or insert the battery alone if the charger supports it.
3. Check the charger status indicator; refer to the charger's label for the exact meaning of each state.
4. Remove the radio or battery once charging is complete. If a fault indication persists, disconnect power and contact your dealer.

5. Basic Operation

Power on and set volume: Turn the power/volume knob clockwise until you hear a click, then adjust to a suitable level.

Select a channel: Turn the channel selector to the desired programmed channel. All radios in a talk group must share compatible frequency, bandwidth, and signaling settings.

Transmit: Listen before you transmit. Hold the radio upright with the microphone about 3–8 cm from your mouth, press and hold PTT, pause briefly, then speak clearly.

Receive: Release PTT to return to receive mode; the LED typically lights green when a valid signal is received.

Power off: Turn the power/volume knob counterclockwise until you hear a click.

Good communication practice: keep transmissions short and clear. Do not press PTT while someone else is talking. This device does not provide secure or private communications — other radios sharing the same channel and compatible settings may be able to receive your transmissions.

6. One-Touch Copy (Wireless Channel Sync)

This feature copies the programmed channel settings from one radio (the master) to one or more other radios (the slaves).

Availability, the range of compatible channels, and which parameters can be copied depend on the device firmware and programming configuration. Only clone radios of the same compatible model family, and only where permitted by local regulations.

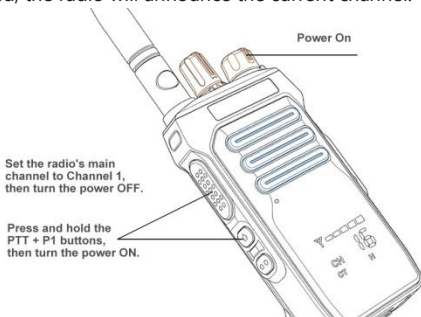
Before You Begin

Make sure all radios are sufficiently charged, fitted with an approved antenna, and placed close together (within about 1 m / 3 ft). Keep them away from other radio traffic where possible.

Cloning may overwrite the slave radio's current channel settings.

Step 1 — Put the Master Radio into Clone Mode

1. On the master radio, turn the channel selector to Channel 1, then power off.
2. Press and hold PTT + P1, and power on while continuing to hold both keys until you hear two tones and the LED turns solid green.
3. Press PTT once, briefly. The LED begins flashing green and the master enters clone mode; if voice announcement is enabled, the radio will announce the current channel.



Step 2 — Operate the Slave Radio

1. Power on the slave radio and set its channel selector to the target channel you want to sync.
2. Press and hold PTT on the slave radio and wait for the sync to complete. Keep the radios close together and do not change channels during sync.

Step 3 — Confirm, Continue, or Exit

- Sync successful: when the master announces the next channel, the currently selected channel has synced successfully. To sync additional channels, turn the slave to the next target channel and press and hold PTT again.
- Exit clone mode: power off the master radio and power it back on normally to exit clone mode at any time.
- If cloning fails: check battery level, model compatibility, antenna installation, channel position, and the distance between master and slave. Retry after restarting; if it still fails, ask your dealer to verify firmware and programming configuration.

7. Common Programmable Features

Feature	Notes
Voice announcement	Announces channel or status prompts. Language and on/off state are typically set via programming.
Monitor / squelch off	Opens the speaker to check for weak signals or channel activity; can be assigned to P1/P2.
Emergency alarm	Triggers an audible/visual alarm or a programmed signal when the assigned emergency key is pressed.
CTCSS / DCS	Selective squelch tones. These do not encrypt voice traffic or guarantee privacy.
Scrambling	Where fitted and permitted by local regulation, reduces intelligibility to ordinary receivers. Scrambling is not encryption.
Wide / narrow band	Set via programming and must match your authorized frequency plan.
VOX (voice-activated transmit)	Enables hands-free transmit when used with a compatible accessory and configured accordingly.

8. Maintenance, Troubleshooting & Disposal

Routine Maintenance

Keep the device clean and dry. Wipe with a soft, slightly damp cloth; do not use solvents, spray cleaners, or high-pressure water. Keep the accessory/programming port free of dust and moisture. Do not carry the device by the antenna.

Troubleshooting

Symptom	Check First	What to Do
Radio will not power on	Battery discharged, not seated, or contacts dirty	Charge the battery, reseal it, and clean the contacts and keep them dry.
Cannot hear the other party	Wrong channel, low volume, mismatched sub-tone/code, or out of range	Verify channel and settings, increase volume, and move to an area with better coverage.
Other party cannot hear you	PTT not held, channel mismatch, blocked microphone, or antenna issue	Verify settings and check the antenna and accessory connections.
Short battery life	High transmit duty cycle, aging battery, or poor coverage	Reduce unnecessary transmissions; contact your dealer if the issue persists.
Cloning will not complete	Incompatible model/firmware, wrong channel, low battery, or interference	Review the One-Touch Clone checklist; contact your dealer if it continues to fail.

Disposal & Recycling

Where required by local regulation, do not dispose of the radio, battery, or charger as unsorted household waste. Follow applicable local e-waste and battery recycling requirements.

9. Technical Specifications

The values below are taken from the original product documentation for the analog high-power model shown. Actual values may vary by production batch, sales region, programming configuration, and regulatory version. Refer to the nameplate, certificate of conformity, test reports, and local certification documents for the final shipped product.

General

Frequency range	136–174 MHz or 400–480 MHz
Operating temperature	-20 °C to +50 °C
Rated voltage	7.2 V
Operating mode	Same-frequency simplex or split-frequency simplex
Antenna impedance	50 Ω

Transmitter

Frequency tolerance	±2.5 ppm
RF output power	5-20 W
Maximum deviation	≤ 5 kHz
Audio distortion	≤ 5%
Modulation response	+3 dB / - 3 dB
Adjacent channel power	≥ 65 dB
Spurious emissions	≤ 7.5 μW
Occupied bandwidth	≤ 16 kHz

Receiver

Reference sensitivity	$\leq 0.2 \mu\text{V}$
Audio distortion	$\leq 5\%$
Audio frequency response	+2 dB / - 10 dB
Co-channel rejection	$\geq -8 \text{ dB}$
Adjacent channel selectivity	$\geq 55 \text{ dB}$
Intermodulation immunity	$\geq 55 \text{ dB}$
Spurious response rejection	$\geq 55 \text{ dB}$
Blocking	$\geq 85 \text{ dB}$

Note: the specifications above are taken from the original documentation and are subject to change as the technology is improved, without prior notice. For US/EU market versions, rated power, frequency bands, channel bandwidth, RF exposure requirements, and certification markings must follow the test and label data for the final compliant model.

10.Warranty Card & Certificate of Conformity

Please keep this warranty card together with valid proof of purchase; both must be presented when requesting warranty service.

Product model	_____
Serial number	_____
Dealer	_____
Customer name	_____
Contact phone	_____
Purchase date	___ Year ___ Month ___ Day
Contact address	_____

Warranty Terms

1. Present this warranty card together with valid proof of purchase when requesting warranty service.
2. This product carries a one-year limited warranty from the date of purchase. A warranty card that has been altered, lacks proof of purchase, or is not completed as required by local warranty policy may affect your claim.
3. Chargers, batteries, antennas, programming cables, and other consumable or accessory items are not covered by the free warranty unless otherwise required by local law, the sales contract, or a separate warranty term.
4. Damage caused by misuse, unauthorized disassembly or repair, use of non-approved accessories, water ingress, force majeure, or failure to follow this guide is not covered by the free warranty.
5. This warranty does not affect the statutory rights consumers

hold under applicable law. Warranty duration, coverage, and claims process may vary by country or region — refer to the local warranty policy provided by your seller or importer.

Certificate of Conformity (Factory Inspection)

This product has been inspected in accordance with factory quality management requirements and released after passing all required checks. Applicable country/region regulatory compliance, radio certification, and market-access declarations should be verified against the final product's compliance documentation, product labeling, or the manufacturer's/importer's formal declaration.

Inspector	_____
Inspection date	____ Year ____ Month ____ Day
Batch / stamp	_____



RECYCLED PACKAGING