

KG-UVD1P

U.V Dual Band Multifunctional Two-way Radio

DUAL BAND DUAL FREQUENCY
DUAL DISPLAY AND DUAL STANDBY













Classic Circuit for Excellent Performance

Approved Gode by Ministry of Industry and Information Technology of the Pacule's Republic of China.

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Real Object Photography for Perfect Presentation

USER'S MANUAL

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User Safety, Training, and General Information

READ THIS IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION BEFORE USING YOUR **OUNCE** PORTABLE TWO-WAY RADIO.

Compliance with RF Energy Exposure Standards

Your **Survivo** two-way radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) regarding human exposure to radio frequency electromagnetic energy. This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environment at duty cycles of up to 50% talk-50% listen and should be used for occupational use only. In terms of measuring RF energy for compliance with the FCC exposure guidelines, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

NOTE \triangle

>> The approved batteries supplied with this radio are rated for a 5-5-90 duty cycle (5% talk-5% listen-90% standby), even though this radio complies with the FCC occupational RF exposure limits at duty cycles of up to 50% talk.



Your **Swouxun** two-way radio complies with the following of RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 subpart J
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE)
 C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

Operational Instructions and Training Guidelines

To ensure optimal performance and compliance with the occupational/controlled environment RF energy exposure limits in the above standards and guidelines, users should transmit no more than 50% of the time and always adhere to the following procedures:

Transmit and Receive

To transmit (talk), push the Push-To-Talk (PTT) button; to receive, release the PTT button.

Hand-held radio operation

Hold the radio in a vertical position with the microphone 5 cm away from the lips and the antenna

pointing away from the head.

Body-worn operation

Always place the radio in an **Twouxun** - approved clip, holder, holster, case, or body harness for this product. Use of non- **Twouxun** -approved accessories may exceed FCC RF exposure guidelines.

Antennas & Batteries

- Only use the **Swouxun** -approved, supplied antenna or a **Swouxun** approved relacement antenna.
- Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.
- Only use the **Surouxun** approved, supplied batteries or a **Surouxun** approved replacement batteries.
- Use of non- **Two var** -approved batteries may exceed FCC RF exposure guidelines.

Approved Accessories

For a list of **Superviol** - approved accessories, see the accessories page of this user manual or visit the following website for a list of approved accessories: http://www.wouxun.com



Notices to the User

- Government law prohibits the operation of unlicensed radio transmitters within the territories under government control.
- Illegal operation is punishable by fine or imprisonment or both.
- · Refer service to qualified technicians only.

Warning riangle

- >> It is important that the operator is aware of and understands the hazards common to the operation of any transceiver. Turn off your transceiver while refueling, parked at gasoline service stations, or when in explosive areas (gases, dust, fumes, etc.)
- >> If you require this equipment to be modified, please contact **Swouxun** or your **Swouxun** dealer.

FCC Caution:

This equipment has been tested and found to comply with the part 90 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 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 to 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.

FCC Licensing Requirements

The user of this equipment must must be licensed through the Federal Communications Commission. Your **Guouxun** Wireless dealer can assist you in meeting these requirements. Your dealer will program each radio with your authorized frequencies, signaling codes, etc., and will be there to meet your communications needs as your system expands.



Precautions

Only qualified technicians should maintain this product.

Do not use the radio or charge a battery in explosive areas such as coal gas, dust, steam, etc.

Switch OFF the radio while refueling or while parked at a gas station.

Do not modify or adjust this radio without permission.

Do not expose the radio to direct sunlight over a long period of time, or place it close to a heating source.

Do not place the radio in excessively dusty, humid areas, or on unstable surfaces.

Safety: It is important that the operator is aware of and understands hazards common to the operation of any radio.

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.

Warning \triangle

» MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

CE Caution:

Hereby, **Swouxun** declares that this Two-way radio is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the DOC may be obtained through the following address.

No.928 Nanhuan Road, Jiangnan High Technology Industry Park, Quanzhou, Fujian 362000, China

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Unpacking and Checking the Equipment



Carefully unpack the transceiver. We recommend that you identify the items in the following table before discarding the packing material. If any item is missing or has been damaged during shipment, please notify your **Guouxun** dealer.

Supplied Accessories



Description of Functions

- 1. Dual Band, Dual Frequency, Dual Display and Dual Standby
- 2. Frequency Range (may vary for different countries or areas):

```
136-174MHz & 216-280MHz (Rx / Tx), 136-174MHz & 350-470MHz (Rx / Tx), 136-174MHz & 400-480MHz (Rx / Tx), 136-174MHz & 420-520MHz (Rx / Tx), 144-146MHz & 430-440MHz (Rx / Tx), 144-148MHz & 222-225MHz (Rx / Tx), 66-88MHz & 136-174MHz (Rx / Tx), 66-88MHz & 400-480MHz (Rx / Tx).
```

- 3. Working mode: U-V, V-V or U-U selectable
- 4. Channel setting: VHF Tx & UHF Rx or UHF Tx & VHF Rx selectable
- 5. DTMF encoding
- 6. Digital FM radio (76-108MHz)
- 7. CTCSS/DCS scan
- 8. Output power: 5W VHF /4W UHF
- 9. 128 memory channels
- 10. VOX
- 11. Stopwatch timer function
- 12. 105 groups DCS and 50 groups CTCSS
- 13. Voice guide
- 14. SOS function
- 15. Wide/Narrow bandwidth selection (25KHz / 12.5KHz)
- 16. Multi-display modes (channel order number/ channel frequency/ channel name selectable)
- 17. Reverse frequency

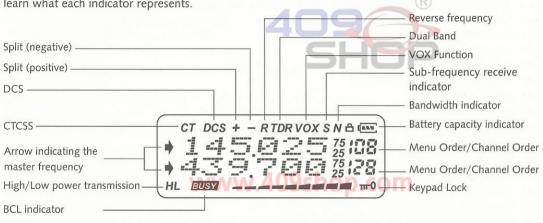


- 18. Multi-functional scan modes
- 19. Priority scan function
- 20. Bright flashlight illumination
- 21. Frequency steps selectable (5/6.25/10/12.5/25/50/100KHz)
- 22. High/Low power changeable when transmitting
- 23. High capacity Li-ion batterypack
- 24. Intelligent charger
- 25. Offset frequency setting (0-69.950MHz)
- 26. Frequency shift direction setting
- 27. Busy channel lockout
- 28. Power-on message (Battery-V/Full Screen/Other Characters)
- 29. Low voltage prompt
- 30. Transmitting beginning/ending prompt
- 31. Transmitting overtime prompt
- 32. Keypad lock (Auto/Manual)
- 33. Adding scanning channel
- 34. Programmable by computer
- 35. Wire-clone function
- 36. Menu/Channel reset
- 37. 1750Hz burst tone
- 38. IP55 waterproof

Getting Started

LCD Display

There are various indicators displayed on the screen while powered on. Please refer the below table to learn what each indicator represents.



Note:

Full Battery Capacity Indicator

Low Battery Capacity Indicator

Exhausted Battery Capacity Indicator

Receiving Signal Meter



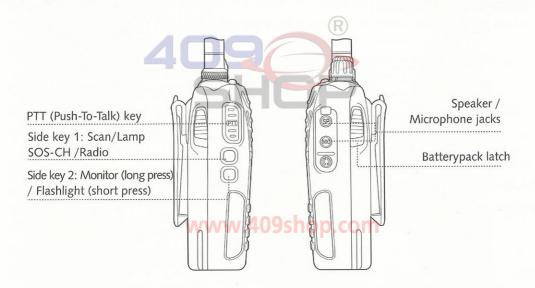
Transceiver Description



Note: Quickly switch the working mode (MENU + TDR)

Quickly resume the transceiver (MENU + A/B)

Getting Started





Ouick Search

When setting function parameters, press the or key one time to scroll through parameters. Press and hold the or key to scroll quickly.

■ Single/Dual Band Switch

Press TDR

Single Band <----> Dual Band

Quickly Resume the Transceiver

In standby, press (FN) + (A/B), then LCD displays STERE? . Press (EN) to confirm, and then the transceiver restarts.

A/B Switch

Press AB to select the master frequency (without the arrowhead mark) is the master frequency, while the other frequency (without the arrowhead mark) is the sub frequency. The transceiver can transmit and receive on the master frequency, but ONLY receives on the sub frequency. While receiving on the sub frequency, the "S" indicator appears on the display.

Getting Started

■ SCAN* key

Quickly press the key to set the reverse frequency. Press for 2 seconds to activate the scan function.

Side Key 2 (Flashlight/ Monitor selectable)

Quickly press the side key to turn the flashlight ON/OFF. Press for 2 seconds to activate the monitor function.

1750Hz Burst Tone

This transceiver supports a 1750Hz Burst Tone function, required by some repeaters.

Usage:

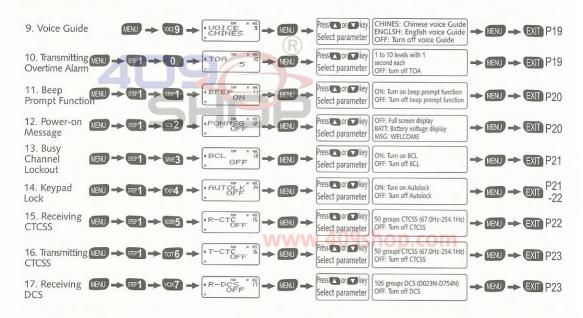
In standby mode, simultaneously press both PTT and PF1 side keys to transmit the 1750Hz burst tone. The burst tone will continue to be transmitted until the keys are released.

Shortcut Sheet

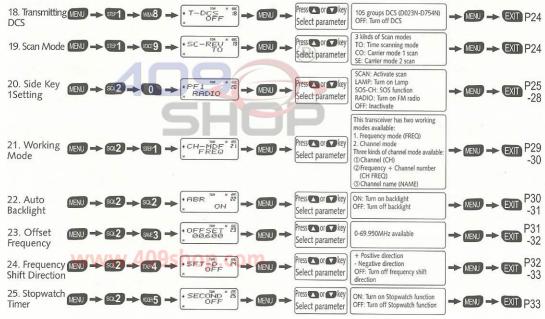


| Function Function order name | on Enter function set | Screen display | Select parameter | | Confirm | | See page |
|------------------------------|-----------------------------|----------------------|----------------------------------|---|---------|----------|-------------|
| 1. Step Frequency | MENU -> SIP1 - | * STEP IZ.50K HENU - | Press or key Select parameter | 7 kinds of frequency steps 5K/ 6.25K/10K/12.5K/25K/50K/100K | → MENU | → EXIT | P14 |
| 2. Squelch Level | MENU - SOL2 - | SQL-LE X SE | Press or key Select parameter | Squelch level from 0 to 9 | → MENU | → EXIT | P15 |
| 3. Power Saver Mode | MENU -> SAVE 3 - | SAUE ON BEND | Press or key Select parameter | ON: Turn on save function OFF: Turn off save function | -> MENU | | P15 -16 |
| 4. Transmitting Power | MENU -> TXP4 - | *TXP TEN N SE | Press or key Select parameter | H: High power (VHF 5W/UHF 4W L: Low power (1W) | → MENU | → EXIT | P16 |
| 5. Roger Beep | MENU -> ROSE5 - | ROGER S | Press or key Select parameter | OFF: No voice prompt BOT: Beginning of transmission promp EOT: End of transmission prompt BOTH: Both will prompt | MENU | → EXII I | P17 |
| 6. Time-out Time | MENU TOT6 | TOT 60 S | Press or key Select parameter | TOT has 40 levels in steps of 15 seconds. OFF: Turn off TOT | -> MENU | | P17 |
| 7. VOX | MENU -> VOX7 - | OFF TOR NEW - | Press or key Select parameter | VOX has levels from 1 to 10 OFF: Turn off VOX transmission | -> MENU | | P18 |
| 8. Bandwidth Selection | MENU -> W&N8 - | WENDE 8 → MEND - | | WIDE: 25KHz NARR: 12.5KHz | → MENU | | P18 |

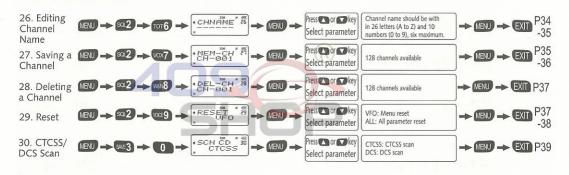
Shortcut Sheet







Shortcut Operations



- Quick Search 🔼 / 🔽 (See page 07)
- High/Low power setting (See page 16)
- DTMF encoding (See page 40)
- Setting reverse frequency (See page 42)
- Setting transmitting overtime prompt (See page 43)
- Wire-clone function (See page 44)
- Programming guide (See page 48-49)

- 1750Hz Burst Tone (See page 08)
- SOS-CH (SOS function) (See page 26)
- Priority scan function (See page 42)
- Low voltage prompt (See page 43)
- Adding scanning channel function (See page 43)
- Working with repeaters (See page 44-47)



Menu Lock Function

The menu may be locked via the programming software:

- 1. Set channel mode as the working mode.
- 2. Turn off the operating menu function in the channel mode (untick 'Menu Available' in Channel Mode column).

If you want to unlock the key, you can switch to Frequency Mode, or put a tick before 'Menu Available' in Channel Mode column of the matching software.

NOTE <u>∧</u>

- >> In dual standby mode, the screen shows "TDR". The frequency with the arrowhead mark is the master frequency while the one without the arrowhead mark is the sby frequency. When the sub freuquency is receiving, the "S" indicator is shown on the display. In dual standby mode, the transceiver ONLY transmits the master frequency and receives on the sub frequency.
- Master Frequency Setting In dual standby mode, press A/B to select the master frequency.
- >> This transceiver is a dual bander, with dual frequency and dual display functions. In frequency mode, it can display two different receiving/transmitting frequencies at the same time. In channel mode, it can also display the channel frequency and related parameters in both channels at the same time.

NOTE \land

- >> In frequency/channel mode, the transceiver may be switched between band A and band B by pressing the A/B key. ALL operations affect the band shown by the A/B indicator.
- >> In frequency mode, frequency step, transmitting power, squelch level, bandwidth, CTCSS, DCS, offset frequency, frequency shift direction and channel display modes may be set independently for bands A and B.
- >> In channel mode, frequency step, transmitting power, CTCSS, DCS, bandwidth, offset frequency, and frequency shift direction functions may not be independently set for bands A and B.

Step Frequency (STEP) ---- MENU 1

In standby, press (*STESOK + STESOK), the screen displays

Press (NEW) to enter, it shows '12.50K', press / to select the desired step, then press (NEW) to confirm, finally press (EXI) to return to standby.

The frequency steps selectable for this transceiver are as follows:

5.00KHz, 6.25KHz, 10.00KHz, 12.50KHz, 25.00KHz, 50.00KHz and 100KHz.



Squelch Level (SQL-LE) ---- MENU 2

Squelch level is used to control the level of a received signal required to hear audio output from the transceiver. When squelch level is set too high, weaker signals may be missed. When squelch level is set too low, needless signals may be heard.

NOTE \land

>> The squelch level for this transceiver has 0-9 levels. 0 turns off the squelch function. Higher squelch levels require stronger received signals to activate the receiver.

In standby, press | + ©2 , the screen displays | SQL-TE | SQL-TE | SQL-TE |

Press to enter, it shows '5', press / To select the desired squelch level, then press to confirm, finally press to return to standby.

Power Saver Mode (SAVE) ---- MENU 3

When the power saver function is ON, the receiver circuit will be deactivated/reactivated cyclically, in order to reduce battery consumption.

In standby, press (1) + (1), the screen displays $(1)^{+SAUE_{OH}^{(1)}}$

Press (In to enter, it shows 'ON', press (In to select turn ON/OFF the power saver funtion.

Press MENU to confirm, and then press EXII to return to standby.

Transmitting Power (TXP) ----- MENU 4

In frequency mode, press (III) + (PP4), the screen displays THE HIGH

Press (NEW) to enter, it shows 'HIGH', press (NEW) to select HIGH/LOW power, then press (NEW) to confirm, finally press (NEW) to return to standby.

NOTE \land

>> This transceiver has HIGH and LOW transmitting power settings:

VHF: HIGH: 5W LOW: 1W UHF: HIGH: 4W LOW: 1W

>> The transmitter may be quickly (and temporarily) toggled between HIGH/LOW output power. While in transmitting mode, press to toggle the output power. When transmitting stops, the transceiver will revert to the original output power.



Roger Beep (ROGER) ---- MENU 5

This function selects the prompt mode when beginning/ ending transmitting as follows:

OFF: The transceiver will not prompt when pressing or releasing PTT.

BOT: The transceiver will prompt when pressing PTT (beginning of transmission).

EOT: The transceiver will prompt when releasing PTT (end of transmission).

BOTH: The transceiver will prompt when pressing and releasing PTT (beginning and end of transmission).

In standby, press (1870) + (1875), the screen displays (1876) + (1876) The screen displays (1876) The

Press went to enter, it shows 'OFF', press \(\times \) to select OFF/BOT/EOT/BOTH, then press to confirm, finally press \(\times \) to return to standby.

Time-out Time (TOT) ---- MENU 6

This function is to prevent the transceiver from transmitting for too long. When the transceiver exceeds the preset time limit, it will stop transmitting with an overtime alarm.

The Time-out Timer may be set from 15 to 600 seconds, in 15 second intervals.

In standby, press (1000 + 1000), the screen displays (10000 + 1000)

Press value, the one first the results of the results of the select the desired Time-out Timer value, then press value, the open first the results of the re

to confirm, finally press III to return to standby.

VOX (VOX) ---- MENU 7

This transceiver will switch to transmitting mode when a voice signal is detected.

The transmitting operation will be somewhat delayed, and the voice signal may be not transmitted at the beginning, since there is some time before the VOX circuit detects the voice signal.

In standby, press (END) + (ONT), the screen displays

Press (1-10), then press (1-10), then press (1-10), then press (1-10) to confirm, finally press (1-10) to return to standby.

NOTE \land

» A higher VOX level requires a higher voice level for transmission.

In SCAN and RADIO modes, the VOX function is not available, but the VOX indicator will still appear on the display.

Bandwidth Selection (WN) ---- MENU8

In standby, press () + () , the screen displays () WH WIDE

Press (IN) to enter, it shows 'WIDE', press (IV) to select WIDE/NARROW bandwidth, then press

to confirm, finally press III to return to standby.

18



Voice Guide (VOICE) ---- MENU 9

In standby, press (+), the screen displays (VOICE " ENGLSH"

Press to enter, press / to select Chinese, English or OFF, and then press key to confirm, finally press to return to standby.

NOTE \land

>> Please turn off MENU 9 and MENU 11 at the same time to turn off all the voice prompts for this transceiver.

Transmitting Overtime Alarm (TOA) ---- MENU 10

The TOA may be set from 1 to 10 seconds. The TOA alarm will sound a beep and the LCD will continue to flash. For example, a TOA setting of 5 will sound an alarm 5 seconds before the end of TOT preset time.

In standby, press (R) + (R) + (R) , the screen displays $\left[\frac{1}{2} + \frac{1}{2} \right]$

Press finally EXII to return to standby.

Beep Prompt Function (Beep) ---- MENU 11

The beep prompt is used to indicate transceiver operating confirmation, error status, or faulty conditions.

It is recommended that this function remain ON in order to detect error conditions.

In standby, press () + () , the screen displays | BEEP ON I

Press 🖚 to enter, it shows 'ON', press 🔼 / 🚺 to select turn ON/OFF the beep prompting function,

then press menu to confirm, press finally exit to return to standby.

NOTE \land

>> When MENU 9 VOICE function and MENU 11 BEEP function are both on at the same time, the VOICE function is prioritized.

Power-on Message (PONMSG) ----- MENU 12

This transceiver has 3 display modes for the power on message:

OFF: display the full screen

BATT-V: display the current battery voltage

MSG: display 'WELCOME'

In standby, press (FONNISS), the screen displays FONNISS TO OFF

Press to enter, it shows 'OFF', press / to select OFF/BATT-V/MSG, then press to confirm, finally press x to return to standby.



Busy Channel Lockout (BCL) ---- MENU 13

This function is to prevent interference from other communicating channels. When the selected channel is occupied by others, press PTT and there will be an alarm prompt for BCL. When PTT is released, the alarm prompt stops the transceiver reverts to receiving mode.

In frequency mode, press (MENU) + SIP1 (See 3), the screen displays (FECL OFF 13)

Press to enter, it shows 'OFF', press \(\subseteq \) to select ON/OFF this function, then press to confirm, finally press \(\subsetex \) to return to standby.

Keypad Lock (AUTOLK) ---- MENU 14

The keypad may be set to auto (AUTOLK) or manual locking.

ON: When AUTOLK is on, and there are no operations for 15 seconds, the keypad will be locked automatically. Press for more than 2 seconds to unlock the keypad.

OFF: When AUTOLK is off, the keypad may be locked manually.

NOTE \land

>> To manually lock the keypad while in standby mode, press for more than two seconds. Repeat this operation to unlock the keypad.

In standby, press (FAUT OFF THE Street displays FAUT OFF THE STREET THE STREE

Press (ENI) to enter, it shows 'OFF', press (A) / (V) to select ON/OFF this function, then press (ENI) to confirm, finally press (EXII) to return to standby.

Receiving CTCSS (R-CTCSS) ----- MENU 15

CTCSS/DCS can be used to receive specified individual or group calls, and avoid needless reception from others on the same frequency. Only upon receiving the same CTCSS/DCS signals, will the transceiver release the squelch.

In frequency mode, press (LENU) + SEPT (LENU

CTCSS code, then press to confirm, finally press to return to standby.

NOTE 🛆

>> This transceiver has 50 CTCSS group settings. See Appendix (1): CTCSS frequency sheet.



Transmitting CTCSS (T-CTCSS) ----- MENU 16

In standby, press (ENU) + (EP1) (or6), the screen displays (*T-CTC) (FF)

Press to enter, it shows 'OFF', press / / To turn OFF this function or select 67.0Hz to 254.1Hz CTCSS code, then press to confirm, finally press to return to standby.

NOTE \land

>> This transceiver has 50 CTCSS group settings. see appendix (1) CTCSS frequency sheet.

Receiving DCS (R-DCS) ---- MENU 17

In frequency mode, press $(R-D)^{-1}_{OFF}$, the screen displays $(R-D)^{-1}_{OFF}$

Press to enter, it shows 'OFF', press \(\simeq \) to turn OFF this function or select D023N to D754I DCS code, then press \(\simeq \) to confirm, finally press \(\simeq \) to return to standby.

NOTE <u>∧</u>

- >> This transceiver has 105 DCS group settings, see appendix (2) DCS frequency sheet.
- In DCS selections, DXXXN (from D023N to D754N) means POSITIVE code, while DXXXI (from D023I to D754I) means NEGATIVE code.

Transmitting DCS (T-DCS) ----- MENU 18

In standby mode, press (LENU) + (SP1) (MS), the screen displays (* T-DOS * SP)

Press (NEW) to enter, it shows 'OFF', press (A) / (D) to turn OFF this function or select D023N to D754I DCS code, then press (NEW) to confirm, finally press (NEW) to return to standby.

NOTE \land

- >> This transceiver has 105 DCS group settings, see appendix (2) DCS frequency sheet.
- In DCS selections, DXXXN (from D023N to D754N) means POSITIVE code, while DXXXI (from D023I to D754I) means NEGATIVE code.

Scanning Mode (SC-REV) ----- MENU 19

This transceiver has three scan modes:

TO: The transceiver continues scanning if there are no operations 5 seconds after receiving signals.

CO: The transceiver pauses scanning when receiving signals, and continues scanning 3 seconds after the signal disappears.

SE:The transceiver stops scanning when receiving signals.

In standby mode, press (MENU) + (SEP1) (00.9), the screen displays (*SC-REU * F8

Press (NEW) to enter, it shows 'TO', press (NEW) to select TO/CO/SE scan mode, then press (NEW) to confirm, finally press (NEW) to return to standby.



SCAN / LAMP / SOS-CH / FM Radio Function on Side Key 1 ---- MENU 20

There are four functions which may be assigned to side key 1 of this transceiver:

SCAN: Scan function

LAMP: Lamp function

SOS-CH: SOS function

RADIO: FM radio function

OFF: Disable this side key

1. SCAN function:

In standby mode, press Side key 1 enter to activate scanning (scan mode can be set through MENU 19 -Scan Mode Setting), while press any keys to stop scanning in scan mode.

In standby mode, press (FF1) + (2) 0 , the screen displays (FF1) ***

Press (NEW) to enter, press (NEW) to select SCAN, then press (NEW) to confirm, finally press (EXT) to return to standby.

2. LAMP function:

In standby mode, press Side key 1 to turn on the Lamp, and press this key again to turn it off.

In standby mode, press + 2 0 , the screen displays RADIO

Press NEW to enter, press / to select LAMP, then press to confirm, finally press EXII to return to standby.

3. SOS-CH (SOS function):

In an emergency, the transceiver will transmit an SOS morse code signal on the specified channel or frequency in Band A or Band, sound a "wu-wu" audible alarm, and flash the LED green. Transmission will continue indefinitely for 10 seconds each time, in 5 minute intervals. When a carrier signal is received, the transceiver will automatically switch to receiving mode. When a carrier signal is absent, the SOS will resume. Press any key to exit SOS transmission mode.

NOTE 🛆

- >> If the SOS-CH frequency you set is not the master frequency, the tranceiver will automatically set the SOS-CH frequency to be the master frequency in SOS-CH mode. The master frequency settings will not be restored while in SOS mode.
- >>> Please press AB key to reset the master frequency.

In standby, press (EN) + (SO2) 0, then screen displays (*FF1 (*FD10) ** (*

After completing the above settings, switch the transceiver to standby mode, and press the PF1 side key to transmit the SOS signal.

4. RADIO function:



- Turning on the FM radio: In standby mode, press Side key 1 to turn on. The screen displays (145,000) , then the indicator keeps flashing, which indicates the transceiver is automatically tuning radio stations. Once the transceiver gets tuned, it stops at this radio station and starts the listening.
- Tuning FM radio stations: In radio mode, press , the radio begins tuning the stations automatically and the green light flashes until the search is complete.

 You can press () to manually tune radio stations.
- Storing a radio station: After detecting a radio station, press (), the screen displays () and then select one of the number keys between () and (), the detected radio station will be stored into the transceiver for future use.

The transceiver has two groups of storage available. The default group is the first storage area.

E.g. If you want to store 88.1MHz into the 1st group Channel 8, tune the desired frequency (88.1MHz) while in radio mode, press to store it into storage area 1, channel 8. If you want to store this frequency into the 2nd group Channel 8. In radio mode, when tuning the desired radio station, press then the screen will display to store this station into the 2nd group Channel 8.

In radio mode, press 1 to 9 key to select the stored station to listen to, press the ** key to switch between the first and second storage areas.

• Exiting from radio mode: Press Side key 1 again to exit from radio mode.

NOTE <u>∧</u>

- >> When in FM radio mode, the current frequency or channel is in standby. When a received signal is detected, the transceiver will automatically switch to receiving/transmitting mode. Five seconds after the signal disappears, the transceiver will switch back to radio mode.
- >> In FM radio mode, press TT to revert to the current standby frequency, and press PTT to transmit. Five seconds after transmission, the transceiver will revert back to radio mode.



Working Mode (CH- MDF) ---- MENU 21

This transceiver has two options for the working mode:

- 1. Frequency mode (FREQ)
- 2. Channel mode

There are three channel display selections in channel mode as follows:

①Channel (CH)

②Frequency + Channel number (CH FREQ)

③Channel name (NAME)

NOTE \land

- >> It is possible to switch between frequency and channel modes manually or via the programming software. If desired, a password may be set for mode switching.
- >> The password for mode switching may only be set via the KG-UVD1P programming software.
- >> The password consists of 6 digits, while "000000" means no password is needed for mode switching.

Frequency mode (FREQ) and Channel mode switchable

① Without password input
In standby, press (MENU) + s∞2 (sm1), then press (NENU) to choose working mode and finally press (MENU) to confirm.

2 With password input

Please set the password for mode switching via the KG-UVD1P programming software. A valid password consists of 6 digits from 0 to 9 (except "000000").

In standby, press (END) + (SO2) (SEP1), then press (A) / (A) to choose one of FREQ/NAME/CH/CHFREQ.

Press (END) to confirm, then the screen will display the password input (CH-MODE). Please input the preset password through the keypad, then the transceiver will switch to the selected mode.

NOTE A

- » At least one channel is stored ahead into the transceiver, so that the above settings for the mode switch is workable.
- >> Quickly switch between frequency and channel modes (CH).

 In standby, press (EN) + TOP key to switch the mode. Without password input, you can switch it directly, otherwise you need to input the valid password.

Auto Backlight (ABR) ---- MENU 22

In standby, press (+ sa2), the screen displays () HBR ON ON

Press to enter, it shows 'ON', press \(\sigma \) to turn ON/OFF auto backlight function, then press to confirm, press to standby.

NOTE <u>∧</u>

>> When the ABR function is set ON, the backlight will not be activated in transmitting/receiving mode or when pressing side key 2. Otherwise, operating on the keypad or the side key 1 will activate the backlight automatically.

Offset Frequency (OFF-SET) ----- MENU 23

The offset frequency is the difference between the transmitting and receiving frequencies. The range of the offset frequency for this transceiver is from 0 to 69.950MHz.

In standby mode, press (MEN) + SO2 (SEE), the screen displays (*OFE SEE * SEE)

Press (NEW) to enter, then press \(\sum \) to select the listed offset frequency, or manually input through the keypad directly. Press (NEW) to confirm, press (EXII) return to standby.

In order to transmit and receive in different frequencies, it is necessary to set the offset frequency and the frequency shift direction in the frequency mode.

Please follow these steps:

- 1. Set the working mode to frequency mode.
- 2. Set the frequency shift direction and offset frequency.

E.g.: In frequency mode, the transceiver needs to work on receiving frequency 450.025MHz and transmitting frequency 460.025MHz.

Frequency Shift Direction (SFT-D) ---- MENU 24

There are three selections for the frequency shift direction settings:

- 1. Plus shift (+): the transmitting frequency is higher than the receiving frequency.
- 2. Minus shift (-): the transmitting frequency is lower than the receiving frequency.
- 3. Turn off this function.

In standby mode, press $(-1)^{-1}$ + $(-1)^{-1}$, the screen displays $(-1)^{-1}$



Press (NENU) to enter, press (NENU) to select +/-/OFF, then press (NENU) to confirm, finally press (EXII) return to standby.

Stopwatch Timer (SECOND) ----- MENU 25

In standby mode, press (+ su2) , the screen displays (SECOND " S

Press (NEW) to enter, it shows 'OFF', then press (NEW) to turn ON/OFF this function, press (NEW) to confirm, finally press (NEW) to return to standby.

Using the stopwatch timer:

When this function is ON, press *# to start counting. Press any key to pause. Press *# again to restart counting.

NOTE 🗥

>> When counting is paused, press any key (except ## key) to exit from the stopwatch timer function.

Editing Channel Name (CHNAME) ----- MENU 26

When editing channel names:

- 1. Valid characters are A-Z and 0-9
- 2. Maximum name length is 6 characters
- 3. When manually editing, "-" means that this character is blank.

Editing methods:

- 1. Via the KG-UVD1P programming software.
- 2. Directly through the keypad.

When editing the channel name:

- 1. store at least one channel into the transceiver.
- 2. place into channel mode.
- 3. press \times to select a character while press \times to advance the cursor.

Editing steps:

1. Store the desired channel into the transceiver. Please refer to the Memory Channel (MEM-CH) MENU27.



- 2. Enter MENU 21 to select NAME as the working mode.
- 3. Select the desired channel, press (LENU) + so22 + to16 + (LENU), the screen displays "-----".

 Press (L) to select characters and press (L), then press (L) again to select another digits. After finishing editing the desired name, press (LENU) to confirm, and press (LENU) to exit. The screen displays the edited channel name and the channel number on the upper right corner.

Saving a Channel (MEM-CH) ----- MENU 27

In frequency mode and in standby, it is possible to store the desired frequencies and relevant parameters into the specified channel.

Input the desired frequency, then press + 2 var , the screen displays ... , the screen displays

Press I to enter, press I to select channel, then press I to store, with the voice prompt "receiving memory". Press I to exit, this memory channel with same TX and RX frequency. If you need to store the different TX and RX frequencies in the same channel, repeat the above operation on another frequency, then there is another voice prompt "transmitting memory".

E.g.: Store receiving frequency 450.025MHz and transmitting frequency 460.025MHz into CH-20 I.

- 1. In frequency mode, input 64 65 0 0 62 65 + MENU + 62 VOY + MENU , then press 62 or / vo select CH-20, press 6NU to confirm, voice prompt for receiving memory, then press EXT .
- 3. The different TX(450.025MHz) and RX (460.025MHz) frequencies were stored to CH-20.

NOTE A

- >> If required, the CTCSS/DCS tone should be set prior to the receiving memory, otherwise, it can only store the transmitting frequency.
- If the desired channel has aleady been programmed (The programmed channels show as CH-001 while free unused channels appear as 001), please delete the channel before the transmitting and receiving memory. Only when the desired channel is empty, can both the transmitting and receiving memory be stored, otherwise only the transmitting memory can be manually programmed.
- >> It is also possible to set channel memories using the programming software.



Deleting a Channel (DEL-CH) ---- MENU 28

In standby mode, press (+ SQ2) , the screen displays (EFL-EFT * 8

Press New to enter, and press / v to select the desired channel, then press New to confirm, After the channel is deleted successfully, press (EXI) to return to standby.

Reset ---- MENU 29

This transceiver supports two reset operations:

VFO reset returns all frequency mode functional parameters to factory settings.

ALL reset returns all frequency and channel mode functional parameters to factory settings.

1. VFO Reset

In standby mode, press (REN) + (SEZ) (RES) , the screen displays (RES) (RES)

Press (REN) to enter, and press (A) / v to select VFO, then press (REN), the screen displays (RES) (REN) again to confirm, and the screen displays (RES) (REN) (RES) (REN) (RE

After this operation, the transceiver will be resumed automatically.

2. All Reset

In order to avoid accidental erasure, we suggest that you set the password for the ALL reset via the

KG-UVD1P programming software. The transceiver can only be set to factory settings when a password is entered.

When the input password is "000000", no password is required for this operation.

(1) Setting password as "000000"

In standby, press (100) + (20) (100) , the screen displays (100) (100) (100) (100) (100)

Press (MENU) to enter, and press / v to select ALL, press (MENU), the screen displays then press (MENU) again to confirm, the screen displays (MENU) again to confirm again again to confirm again to c

(2) Setting password as "XXXXXX" (E.g.: 123456)

In standby, press (FES FILL * STAND + 622 (TOTAL) , the screen displays

Press to enter, and press / to select ALL, press , the screen will display , at this time input the valid password (e.g.: 123456), the screen displays , then the transceiver will start resetting. After the reset is done, the transceiver will be resumed automatically.



CTCSS/DCS Scan ---- MENU 30

When the transceiver detects CTCSS/DCS signals, the transceiver will scan the pre-stored CTCSS/DCS frequencies for a match.

When the transceiver receives a CTCSS/DCS signal, press (FIN) + (FIN)

NOTE A

- >> This function only works in frequency mode.
- >> This function only works when a CTCSS/DCS frequency is received.
- >> Press or the Rotary Encoder to change the scanning direction.
- >> When the transceiver scans to the matching CTCSS/DCS frequency, it stops at this frequency. You can press to temporarily replace this frequency as the current standby frequency. If you want to directly set this scanned frequency to be current working frequency, please enter into MENU 15/16 (CTCSS) or MENU17/18 (DCS) to save separately, or it will be reset to the original setting before the next scan.
- » Only the band with the arrowhead and detecting the signal can be activated to do next the CTCSS/DCS scan.

DTMF Encoding

(EXI), (IXI) keys correspond to A, B, C, D at DTMF encoding setting.

Please follow the below steps to activate DTMF manually:

- 1. Press and hold the PTT key to transmit.
- 2. At the same time, press the keys on the keyboard to send out the DTMF tones.

NOTE \land

>> This transceiver will monitor the transmission of corresponding DTMF tones.

ANI ID Code & DTMF Sidetone

NOTE \land

>> The above functions in this transceiver only can be edited by our programming software.

Editing ANI ID Code

An ANI code may consist of up to 6 alphanumeric characters (A-D, 0-9).

Transmitting ANI ID Code



ON: the ANI ID Code will be transmitted automatically when the PTT key is pressed.

OFF: the ANI Code must be transmitted manually.

ANI ID Code transmitting delay

The delay time may be set from 0 to 3 seconds, in increments of 100ms.

The transceiver will delay sending the ANI ID Code for the configured time.

DTMF Sidetone

ON: The speaker remains on when transmitting/receiving DTMF tones.

OFF: The speaker will turn off when transmittting/receiving DTMF tones.

There are 4 sidetone options:

- ① Keypad Sidetone: Press the keypad to turn on sidetone when transmitting.
- ② ANI-ID Code Sidetone: Transmit ANI ID Code to turn on sidetone.
- ③ Key Sidetone+ANI-ID Sidetone: Turn on sidetone by pressing keypad or transmission of ANI ID Code.
- ④ OFF: In encoding mode, all sidetones are off.

Priority Scan

Priority scan is used to monitor a preferred channel and secondary channels at the same time.

E.g.: Scan six channels: Set CH1, CH2, CH3, CH4 and CH5 as the common scanned channels, and CH6 as the priority scanned channel. the scanning order is as following:

$$\rightarrow$$
 CH1 \rightarrow CH6 \rightarrow CH2 \rightarrow CH6 \rightarrow CH3 \rightarrow CH6 \rightarrow CH4 \rightarrow CH6 \rightarrow CH5 \rightarrow CH6 \rightarrow

When the transceiver detects a signal on the priority channel while scanning, it will recall its frequency. Please program the priority channel via the KG-UVD1P programming software.

Reverse Frequency

When using the reverse frequency function, the transmitting and receiving frequencies of this transceiver will be interchanged, together with all settings for CTCSS/DCS and DTMF.

How to set the reverse frequency:

In standby mode, press to activate this function. Press again to switch it off.



In channel mode, if you want to:

- 1. Activate or Inactivate MENU setting
- 2. Enable or Disable Resetting the transceiver

Please program the above operations via the Wouxun KG-UVD1P programming software.

Low Voltage Prompt

When the batterypack is in low voltage, there will be a voice prompt for the lower voltage. At this time, the backlight flashes once every five seconds and the speaker emits a "click" sound to indicate charging is necessary.

Transmitting Overtime Alarm

When the transmission time exceeds the preset time, an alarm will sound to indicate overtime transmitting, and transmitting will be paused. Press PTT to resume transmitting. (Please see MENU 15: Time-out timer TOT).

Adding Scanning Channels



>> The transceiver ONLY scans the channels listed in the SCAN ADD of the KG-UVD1P programming software.

Wire-clone Functiton

- 1. Install batteries into the source and target radios and connect the wire-clone cable between them.
- 2. Turn ON the target radio.
- 3. Press the MONI key of the source radio while powering it ON.
- 4. The RED light of source radio flashes, indicating data is starting copying.
- 5. The GREEN light of target radio flashes, indicating data is being received.
- 6. When copying is complete, the red & green lights will stop flashing and the radio will return to standby mode.

Working with Repeaters

This series of transceiver will operate with repeaters, both in frequency mode and Channel mode, which is programmable through the keypad and via the programming software.

Please refer to the following steps to manually program the channels to work with the Repeater.

a. Set the transceiver to the Frequency/VFO mode. (If the radio is in channel mode, please press (FN) + (TDR) key to switch frequency mode.)



- b. Input the Receive frequency through the keyboard. (The Receive frequency of this transceiver is the Transmit frequency of Repeater.)
- c. Set the related parameters required for this frequency, like MENU 15-18 CTCSS/DCS, MENU 23 Offset frequency, MENU 24 Shift frequency direction and others.
- d. Store this frequency and parameters into the specified channel by MENU 27.
- e. After setting the Offset frequency and the Shift frequency direction of receiving memory, you don't need to memorize the Transmit frequency.

The radio is ready to operate with a repeater.

Switch the working mode to Channel mode, recall the memorized channel. The transceiver can operate with the Repeater.

For example, the Receive frequency range of the repeater is 442.850MHz, the Offset frequency is 5.00MHz, the Shift frequency direction is "-", the T-CTCSS is 103.5Hz, the specified channel CH-20. Please follow these steps:

- a. Power on the transceiver, and set it to work in Frequency mode.
- b. Press (A) + (B) + (B) to set the Frequency step. Press (A) / (A) key to select the desired frequency step, and then press (B) to confirm, finally press (EXII) to return to standby.

c. Input the frequency 447850 through the keyboard, and program followings:

Press (NEW) + (1076) + (1074) to set the T-CTCSS. Press (A) / (A) key to select the desired CTCSS code 103.5Hz, and then press (1074) to confirm, finally press (1074) to return to standby. (Please refer to MENU 16 on Page 23)

Press New + 602 + 603 + MENU to set the Offset frequency. Press A / V key to select the desired offset frequency 5.00MHz, and then press (ENII) to confirm, finally press (EXII) to return to standby. (Please refer to MENU 23 on Page 31-32)

Press Press

Press Press



press to confirm, there is voice prompt "Receiving memory" (it prompts when the Voice guide is ON.). Finally press to return to standby. (Please refer to MENU 27 on Page 35-36)

After above, the settings for memory channel to work with the repeater is done.

If necessary for the channel name editing, please press (PAU) + TDR to switch the working mode to Channel mode. Select the specified channel CH-20, and then press (PAU) + (PA

How to Use the Intelligent Charger

- 1. Insert the AC plug into the power grid socket (AC:90-240V), the indicator on the charger flashes, then the charger is in the charging standby mode.
- 2. Insert the battery into the charger, the RED LED is on, which means charging is in progress. When the RED LED turns to GREEN, charging is complete.

NOTE \land



>> When an exhausted battery pack is inserted into the charger, it will be pre-charged with trickle power (the RED LED flashes for 10-20 minutes). When the LED turns solid RED, the charger enters normal charging mode. When the GREEN LED turns on, charging is complete.

Programming Guide

- a. Download, unzip and install the USB driver according to your operating system.
- b. Restart your computer, and it should show the driver is installed successfully.
- c. Download and unzip the matching programming software.
- d. Connect the transceiver.
- e. Power on the transceiver and open the software.
- f. Read from the radio to check the connection.
- g. Set parameters and functions as desired.
- h. Write to the radio.

NOTE \land

- >> If you get the message "failed connection" when you try to read from the radio, please check the first five steps and the communication ports.
- >> Please note that once the first three steps are completed, the comport will be selected automatically when you open the software. However, according to different computer settings, the comport may need to be reset.
- >>> Please determine the port assignment from the device manager of the computer and select the correct communication port.
- >> If the connection is still not OK, please try another cable or another transceiver on another computer to double check. Please refer to the detailed manual or the video guide for KG-UVD1P programming on the wouxun website: http://www.wouxun.com

Troubleshooting

Before the transceiver is regarded as being faulty, please double check according to the following chart. If the problems still exists, please reset it and try again or seek assistance from an experenced technician or contact your seller.

| Problem | Solution |
|---|---|
| The transceiver can not be powered on. | The battery may be exhausted - please install a new battery or re-charge it. The battery was not installed correctly, please re-install. |
| The battery life is too short. | The battery life is over, please install a new battery. The battery is not fully charged. |
| The receiving light keeps flashing, but there is no sound coming out. | Make sure the volume is turned up. Make sure the CTCSS/DCS settings are the same as the transmitting transceiver. |
| It seems the keyboard does not work. | Make sure the keypad is not locked. Make sure the keys are not stuck. |



| Problem | Solution | | | | |
|--|---|--|--|--|--|
| In standby, the transceiver will transmit automatically, even when the PTT key is not pressed | If the VOX functions is ON, ensure the VOX level is not set too high. | | | | |
| Some functions can not be stored normally. | Please confirm that the transceiver is working in channel mode, since some functions are ONLY set in freuquecy mode via programming software. | | | | |
| There are disturbing signals or noise (from other groups) in the channel. | Please change the CTCSS/DCS frequencies set in your group. | | | | |

Technical Parameters

Appendix 1

| CTCSS | 5 | | | | R |) | | | |
|-------|------|----|-------|----|-------|----|-------|----|-------|
| 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 |



Appendix 2

| DCS | | | | | | P | | | |
|-----|-------|----|-------|------|-------|----|-------|----|-------|
| 1 | D023N | 16 | D074N | 31 | D165N | 46 | D261N | 61 | D356N |
| 2 | D025N | 17 | D114N | 32 | D172N | 47 | D263N | 62 | D364N |
| 3 | D026N | 18 | D115N | 33 | D174N | 48 | D265N | 63 | D365N |
| 4 | D031N | 19 | D116N | 34 | D205N | 49 | D266N | 64 | D371N |
| 5 | D032N | 20 | D122N | 35 | D212N | 50 | D271N | 65 | D411N |
| 6 | D036N | 21 | D125N | 36 | D223N | 51 | D274N | 66 | D412N |
| 7 | D043N | 22 | D131N | 37 | D225N | 52 | D306N | 67 | D413N |
| 8 | D047N | 23 | D132N | 38 | D226N | 53 | D311N | 68 | D423N |
| 9 | D051N | 24 | D134N | 39 | D243N | 54 | D315N | 69 | D431N |
| 10 | D053N | 25 | D143N | 40 | D244N | 55 | D325N | 70 | D432N |
| 11 | D054N | 26 | D145N | 0.41 | D245N | 56 | D331N | 71 | D445N |
| 12 | D065N | 27 | D152N | 42 | D246N | 57 | D332N | 72 | D446N |
| 13 | D071N | 28 | D155N | 43 | D251N | 58 | D343N | 73 | D452N |
| 14 | D072N | 29 | D156N | 44 | D252N | 59 | D346N | 74 | D454N |
| 15 | D073N | 30 | D162N | 45 . | D255N | 60 | D351N | 75 | D455N |

Technical Parameters

| DCS | | | | | | | | | |
|-----|-------|----|-------|----|-------|----|-------|-----|-------|
| 76 | D462N | 82 | D516N | 88 | D606N | 94 | D645N | 100 | D723N |
| 77 | D464N | 83 | D523N | 89 | D612N | 95 | D654N | 101 | D731N |
| 78 | D465N | 84 | D526N | 90 | D624N | 96 | D662N | 102 | D732N |
| 79 | D466N | 85 | D532N | 91 | D627N | 97 | D664N | 103 | D734N |
| 80 | D503N | 86 | D546N | 92 | D631N | 98 | D703N | 104 | D743N |
| 81 | D506N | 87 | D565N | 93 | D632N | 99 | D712N | 105 | D754N |

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Technical Specifications

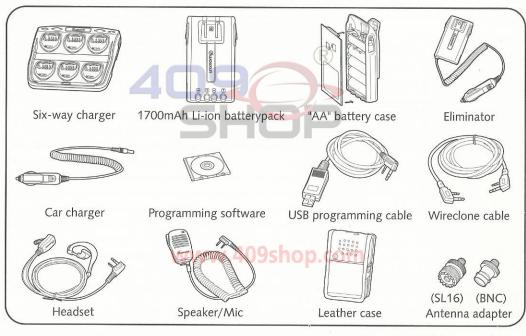


| | | 1 Tolessichalt Willanscelve | | | | | |
|--------------------------|---|--|--|--|--|--|--|
| Frequency Range | 76-108 MHz (Rx) | | | | | | |
| (may vary for different | 136-174MHz & 216-280MHz (Rx / Tx), 136-174MHz & 400-480MHz (Rx / Tx), 136-174MHz & 420-520MHz (Rx | | | | | | |
| countries or areas): | 144-146MHz & 430-440MHz (Rx / Tx), 66-88MHz & 136-174MHz (Rx / Tx), | 144-148MHz & 222-225MHz (Rx / Tx), 66-88MHz & 400-480MHz (Rx / Tx). | | | | | |
| Memory Channels | 128 channels | | | | | | |
| Operating Voltage | 7.4V | | | | | | |
| Operating Temperature | -30°C to + 60°C | | | | | | |
| Working Mode | Co-channel or Dis-channel simple | Co-channel or Dis-channel simplex | | | | | |
| Output Power | VHF: 5W / UHF:4W | | | | | | |
| Modulation | F3E(FM) | | | | | | |
| Max. Frequency Deviation | ≤ ±5KHz | | | | | | |
| Spurious Radiation | < -60dB | | | | | | |
| Frequency Stability | ±2.5 ppm | | | | | | |
| Receive Sensitivity | $< 0.2 \mu\text{V}$ | | | | | | |
| Audio Output power | ≥ 500mW | | | | | | |
| Waterproof | AP55, W 409shon com | | | | | | |
| Dimensions | 61 X 119.5 X 37.5 (mm) | | | | | | |
| Weight | 248g | | | | | | |



» Specifications are subject to change without prior notice.

Optional Accessories



Announcement



of this manual, but it may contain omissions or printing errors. All the above is subject to change without prior notice.