User Manual

TWO WAY RADIO

Model Name:3318UVE

FCC ID:T4K3318UVE

THANK YOU!

3318UVE will provide you with reliable, clear and efficient communication service. The 3318UVE introduces innovative DSP digital signal processing technology, high degree integration, it is including kinds of professional function, best stability and great reliability as well as exterior smooth lines, novel, fashionable, sturdy and durable.

The 3318UVE includes plenty of TX, RX channels, as well as UU,VV and UV standby modes which are able to realize dual PTT functions. 51 groups of CTCSS encode/decode and 1 group of user-defined CTCSS encode/decode, 1024 groups of DCS encode/decode, 5TONE/2TONE/DTMF encode/decode, built-in radio functions, etc..It is a meticulous build functional and Multi frequency band radio for radio amateur and commercial users.

CAUTIONS

3318UVE is excellent designed with advanced technology. The following tips will be helpful for you in performing your obligation under warranty and understanding the safety of radio usage.

1.Keep the 3318UVE and accessories away from children.

2.Please do not try to open or modify the 3318UVE without permission, non-professionals operation may also cause damage.

3.Please use assorted battery and charger to avoid damage.

4.Please use assorted antenna to ensure the communication distance.

5.Please avoid exposing the radio under the sunshine for a long time or storing it in too hot places. High temperature will shorten the life of electronic devices.

6.Please avoid storing the radio in the dusty, dirty and damp areas.

7.Please keep the radio dry. Do not wash radio with ardent chemicals and detergents.

8.Do not transmit without antenna.

9.When using this radio , we recommend transmitting for 1 minute then receiving for 4 minutes. continuously transmitting for long time or working in high power will heat the back of the radio. Do not place the radio's hot back close to any plastics.

10.If any abnormal smell or smoke coming from the radio , please turn off the power instantly and take off the battery and its case. Then contact local dealers.

○ UNPACKING

Please carefully unpack the radio . We recommend that you identify the items listed in the following table before discarding the packing material.

If any items are missing or have been damaged during shipment, please contact with dealers immediately.

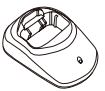
Supplied Accessories

Item	Number	Quantity
Antenna	QA09UV2	1
Li-ion Battery	QB-26L	1
Battery Charger	QBC-26L	1
AC Adaptor	QPS-01	1
Belt Clip	BC01	1
Hand Strap	GS01	1
Instruction Manual		1
Certificate		1

Standard Accessories

Antenna*1
QA09UV2

Li-ion Battery
QB–26L(1500mAh)



Battery Charger
QBC–26L

AC Adaptor
(12V/500mA)
QPS–01

Belt Clip
BC01

Hand Strap
GS01

Instruction
Manual

○ BATTERY INFORMATION

Charging Operation

The battery is not charged at the factory, please charge it before use. Charge the battery for the first time after purchase or extended storage (more than 2 months) may not bring the battery to its normal operating capacity. After repeating fully charge/ discharge cycle for two or three times, the operating capacity will reach the best performance. The battery life is over when its operating time decreases even though it is fully and correctly charged. Replace the battery.

Battery Charger Type

Please use our company's designated charger, other models may cause explosion and injure people. After installing the battery, if the radio red light twinkles and remind changing battery, please charge the battery.

Notice for Charging Battery

- ▲ Do not shortcircuit our company designated charger. Never attempt to remove the casing from the battery, we show no responsibility on the faulty caused by modifying freely without permission of our factory.
- ▲ The ambient temperature should be between 5℃ and 40℃ in charging. Charging outside this range may not fully charge the battery.
- ▲ Always switch off the transceiver equipped with a battery before charging. Otherwise, it will interfere with correct charging.
- ▲ To avoid interfering the charging procedure, please do not cut off the power or take out the battery during charging.
- ▲ Do not recharge the battery if it is already fully charged. This may shorten the life of the battery or

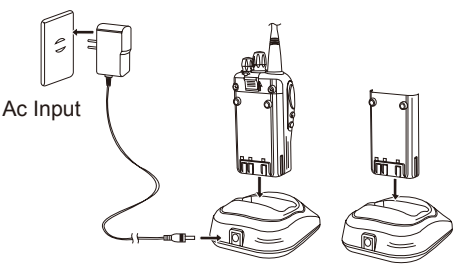
damage the battery.

▲ Do not charge the battery or radio if it is damp. Dry it before charging to avoid danger.

WARNING:
When keys or ornamental chains and other electric metals contact with the battery terminals, the battery may cause damage or hurt bodies. If the battery terminal short circuit, it will generate a lot of heat, please be careful when you bring or use the battery, please put battery or radio into insulated container. Do not put it into metal container.

How to Charge

1.Plug the AC adaptor into the AC outlet, then plug the cable of AC adaptor into the DC jack, the indicator lights orange for 1s and turns into GREEN---waits to charge.
2.Slide the battery or radio with battery into the charger; make sure the battery terminals are in contact with the charging terminals well. LED turns into twinkling RED---pre-charging begins.
3.Pre-charging for about 5 minutes, LED twinkles stop then charging begins.
4.It takes about 4 hours to fully charge the battery, when LED turns into GREEN— full charged.



○ BATTERY INFORMATION

NOTE: When charging a power−on radio equipped with battery, the LED will not turn into green to show the full charge status. Only when turn off the radio, the LED can indicate normally.
Because when the radio is power on, it would consumes energy, the charger cannot detect when battery has been fully charged, the charger will charge battery in voltage consumption and fail to indicate correctly.

5.Charging Process:

Status	LED
Standby (self-examine orange lights 1second when power on)	Green light
Pre-charging (pre-charging stage)	Red light twinkles for about 5 minutes
Charging (charge in constant currency)	RED light lightens for about 4 hours
Full charged (charge in constant voltage)	Green light

6.LED Indicator:

STATUS	self-examine when power on	(No battery)	Pre-charging	Charge normally	Full Charged	Trouble
LED	Orange (for 1 second)	Green	Red light twinkles for 5 minutes	Red	Green	Red twinkles for a long time

NOTE: Trouble means battery heating, battery short−circuit or charger short−circuit.

Charging Prompt

1. Self- examination: When charging, ORANGE light twinkles for 1 second and goes out. That means the charger has passed its self-examination and it can charge the battery normally. If the light remains orange or the red light twinkles, which means the charger can not pass its self-examination or charge the battery.
2. Trickle pre-charging: When the battery has been inserted into the charger and red light twinkles, which means the remnant voltage is low, the charger trickle charge the battery (pre-charging status), until the battery reaches a certain electric quantity, the charger automatically turns into normal charging. And if the red light stop twinkling, which means the remnant voltage meets a certain electric quantity, the charger will charge the battery normally.

NOTE:The time for Trickle pre–charging should not exceed 30 min. If after 30 min, the red indicator is still twinkling, it means it is unable to charge battery. Please kindly check battery and charger.

How to Store the Battery

1. If the battery needs to be stored for a long period, the battery should be removed from the radio. It's state of charge should be 50-100% of full charge.
2. It should be kept in low temperature, dry environment.
3. To keep away from hot places and direct sunlight.

WARNING

- **▲ Do not short circuit battery terminals.**
- **▲ Never attempt to remove the casing from the battery pack.**
- **▲ Never assemble the battery in dangerous surroundings, spark may cause explosion.**
- **▲ Do not put the battery in hot environment or throw it into fire, it may also cause explosion.**

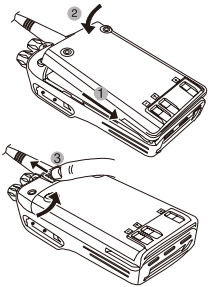
○ INSTALLATION & CONNECTION

Installing / Removing the Li-ion Battery

1. Match the three grooves of the battery pack with the corresponding guides on the back of the radio and push.

2. Press the battery pack and radio firmly together until the release latch on the top of the radio locks. After hearing a "click" sounds, the battery has been locked.

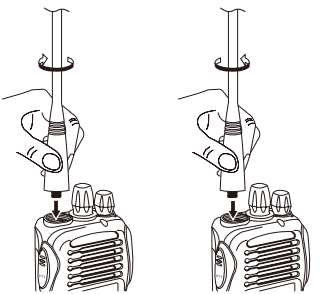
3. To remove the battery pack, slide up the release latch and remove the pack away from the radio.



Installing / Removing the Antenna

■ **Installing the Antenna:**
Screw the antenna into the connector on the top of the radio by holding the antenna base and turning it clockwise until secure.

■ **Removing the Antenna:**
Turn the antenna anticlockwise to remove it.



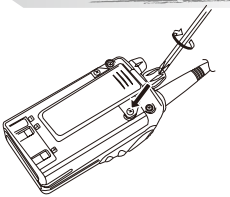
Installing / Removing the Belt Clip

■ **Installing the Belt Clip:**

Place the belt clip to the corresponding grooves on the back of the radio , and then Clockwise screw it.

■ **Removing the Belt Clip:**

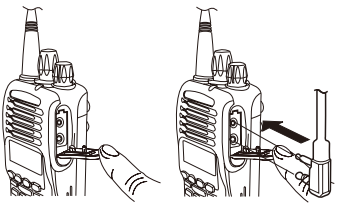
Anticlockwise turn screws to remove the belt clip.



Installing Optional Speaker / Microphone

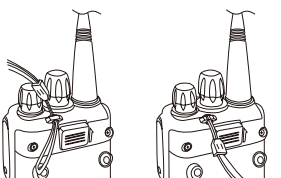
Unveil the MIC-SP jack cover and then insert the Speaker/Microphone plug into MIC-SP jack.

Note:The radio is less water resistant while using the Speaker/Microphone.



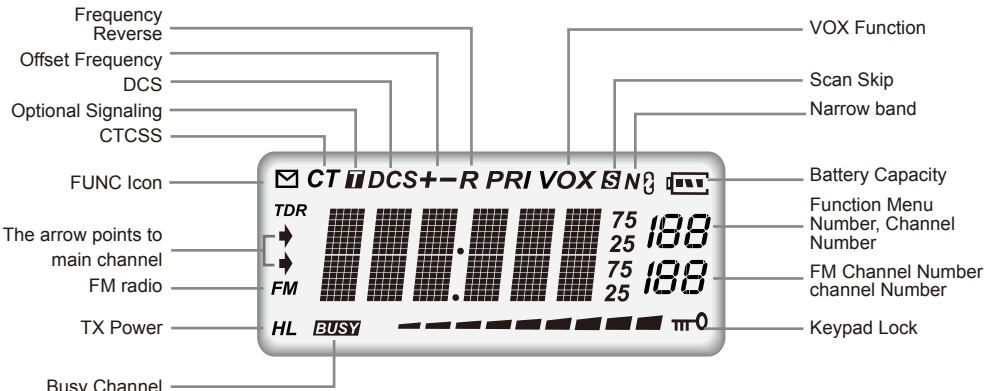
Installing the Hand Strap

Slide the loop of the hand strap through the eyelet on the upper rear of the radio, pull the entire hand strap through the loop to secure the hand strap in place.



LCD Display

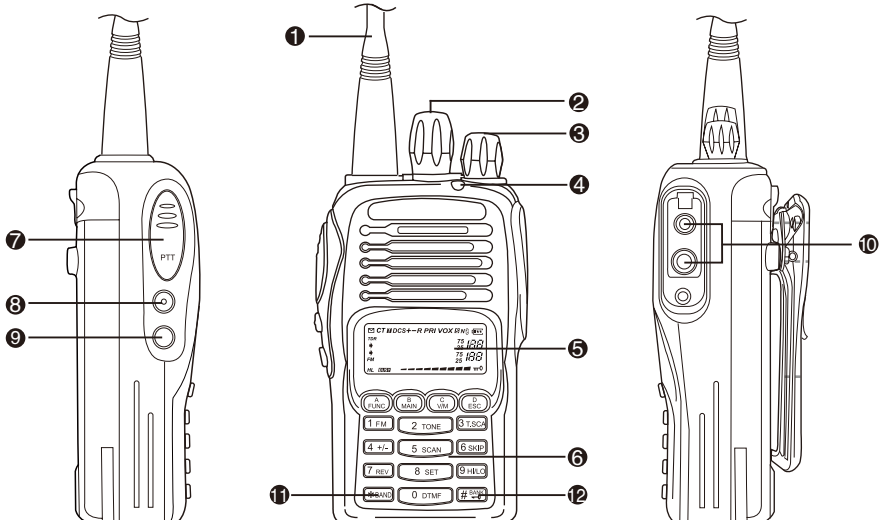
On LCD display screen, you will see various icons which stand for the selected functions and sometimes you may forget the meaning of them. Here you will find the following table extremely useful.



NOTE:

Battery capacity indicator(full) **No power, replace battery pack or charge battery**

Battery capacity remnant **Real time display receiving signal strength/Power Indicator**


PTT
1 FM
2 TONE
3 T.SCA
4 +/-
5 SCAN
6 SKIP
7 REV
8 SET
9 H/L
0 DTMF

○ GETTING ACQUAINTED

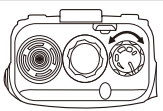
❶ Antenna
❷ Selector Knob
❸ Power/Volume switch
Rotate it clockwise to turn on radio, rotate it anticlockwise until heard "click" to turn off the radio
When radio is power on, rotate it clockwise to increase volume, anticlockwise to reduce volume.
❹ TX/RX indicator, RX is GREEN or BLUE, TX is RED
❺ LCD display
Displays current frequency/channel and operations
❻ Keypad
Enters desired frequency/channel or operations by keypad
❼ PTT key
Press PTT key to talk, release this key to receive.
❽ PF1 key
❾ PF2 key
❿ Speaker/Microphone jack, programming software jack
⓫ Single-band Switching
⓬ Memory Bank Operation

Turn the Radio On & OFF

Under power-off state, turn [**POWER**]/ [**VOLUME**] clockwise to turn on the radio.

Under power-on state, turn [**POWER**]/ [**VOLUME**] anticlockwise to turn off the radio.

Adjusting Volume



Under power-on state, turn [**POWER**] / [**VOLUME**] to adjust volume. Clockwise-up, anticlockwise -down.
When adjusting the volume, user can press the key programmed as Squelch Off to monitor volume level.

NOTE:
Press the side key programmed as Squelch Off to monitor the background noise. Turn [POWER] / [VOLUME] to adjust the volume. Turn [Selector Knob] to adjust squelch level for current channel.

○ BASIC OPERATIONS

Switch between Main band and Sub band

Under standby state, press (B/MAIN) key to switch between Main band and Sub band.
Arrow indicates the Main band.

Switch between Channel mode and VFO mode

Under standby state, press (C/V/M) key to set main band as Channel mode or frequency mode (VFO).

Channel Adjusting

With radio in Channel mode or FM radio channel mode, rotate channel switch to adjust channel. Rotate channel switch clockwise to increase channel number, anticlockwise to decrease channel number.

Frequency Adjusting

With radio in VFO mode or FM radio frequency mode, rotate channel switch to adjust frequency. Rotate channel switch clockwise to increase frequency, anticlockwise to decrease frequency. Frequency change depends on chosen frequency step.

Frequency Input by Keypad

Under frequency mode or FM radio frequency mode, you can directly enter frequency through keypad.

1. When your radio is under Channel mode, press (C V/M) key to switch into VFO.

NOTE: When the radio is under Channel mode, it shows current channel number on the right of main frequency.

2. Enter the desired frequency by keypad.

NOTE: The frequency input of main channel or FM radio is relevant to the stepping and radio frequency range. If frequency setup is beyond range or not matching with step size, the input is unavailable. Under the FM radio mode, the frequency step size input by numeric keys is 100k.

Channel Input by Keypad

Under channel mode of radio or FM radio, you can switch to desired channel by entering three numbers (000-199). If the entered channel is not a saved channel, the radio will emit beep to prompt wrong input and return to current channel.

For example, entering 001 is channel 1, 030 is channel 30, 125 is channel 125.

Squelch Off Momentary / Squelch Off

Side key [PF2] can be setup for Squelch off Momentary or Squelch off function by programming software.

○ BASIC OPERATIONS

1. Squelch off: Press [PF2] key, squelch circuit is not mute, back-ground noise can be heard. Press [PF2] key again, squelch circuit is mute.

2. Squelch off Momentary: Press and hold [PF2] key, squelch circuit is not mute, back-ground noise can be heard. Release [PF2] key, squelch circuit is mute.

NOTE: The above functions are only available after [PF2] key setup in programming software.

Receiving

When your radio is called by other party, green or blue LED light will be on, LCD backlight will be on at the same time, and the arrow icon will flash, you can hear the calling.

NOTE: You may not receive the calling when your radio is set at high squelch level. If current channel is programmed with decode signal, only the same signaling call can be heard.

Transmitting

According to [PF2] key setup in programming software, hold [PF2] key to monitor the channel to ensure it is not busy, press PTT key and talk to speaker.

Please keep the distance between mouth and speaker to be 2.5-5CM, speak in normal tone to get the best acoustic fidelity.

NOTE: When press and hold PTT key, transceiver is transmitting if the red LED light is on, release PTT key to receive calls.

Emergency Alarm

Under standby state, press and hold [PF1] key which is programmed with ALARM function until LCD displays "**ALARM**", Emergency alarm function is started. This radio has 4 Alarm modes for optional, can be setup in programming software. Power off radio to exit Alarm.

Side Key [PF1] function instruction

[PF1] key can be setup in Function Menu 45 for below functions:

1. **VOLT:** Battery capacity inquiry: Under standby, press [PF1] key, LCD displays current battery capacity, press this key again to exit.
2. **CALL:** Transmit the prestored DTMF/5TONE Encode signal in channel.
3. **FHSS(Version D):** Frequency hopping function. Press [PF1] key, turn on frequency hopping function, LCD display "**FHSS**", radio will communicate in pre-set hopping frequency range.

   Note: Receiver and Sender must have same hopping frequency, and must setup MSK decode signalling.
4. **ALARM:** Long pressing [PF1] key, LCD display "**ALARM**", radio will enable the preset alarm function.
5. **SUBPTT:** Press [PF1] key, radio will transmit on sub-band frequency.
6. **Transmit tone pulse frequency:** Press and hold PTT key, then press [PF1] key to transmit selected tone pulse frequency.

○ BASIC OPERATIONS

Side key [PF2] function instruction

1. Squelch off: Press [PF2] key, squelch circuit is not mute, back-ground noise can be heard. Press [PF2] key again, squelch circuit is mute.
2. Squelch off Momentary: Press and hold [PF2] key, squelch circuit is not mute, back-ground noise can be heard. Release [PF2] key, squelch circuit is mute.
3. Transmit DTMF/5TONE/2TONE signaling: Press and hold [PTT] key, then press [PF2] key to transmit selected DTMF/5TONE/2TONE signaling.
4. Press and hold [PF2] key to turn on transceiver, until radio emits "DU" beep, radio enter into general functions setup.

Edit channel

1. Under frequency mode (VFO), enter desired frequency and settings, press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, press (C V/M) key to switch into channel mode, channel number flashes.
2. Rotate channel switch to select desired editing channel number.
3. Press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, press and hold (C V/M) key until radio emits "DUDU" beep, channel is stored successfully.

Delete channel

1. Under standby state, press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, press (C V/M) key to switch into channel mode, channel number flashes.

2. Rotate channel switch to select desired deleting channel number.
3. Press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, press and hold (B MAIN) key until radio emits "DUDU" beep and clear up frequency information of current channel, deletion is successful.

NOTE: This process can be applied for deleting FM radio channels.

Programming scan

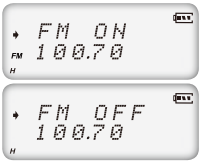
Setup the frequency of L1 channel, U1 channel, L2 channel and U2 channel will realize VFO frequency scanning border limited. L1 & L2 is starting frequency, U1 & U2 is end frequency. When VFO frequency between L1~ U1 or L2 ~ U2, transceiver will scan frequencies between L1 ~ U1 or L2 ~ U2. When VFO frequency is lower than L1 or L2, radio will scan frequencies higher than L1 or L2. When VFO frequency is higher than U1 or U2, radio will scan frequencies higher than U1 or U2.

1. In VFO mode, enter desired frequency and relative setup, press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, then press (C V/M) key switch into channel mode, channel number flashes
2. Rotate channel switch to choose desired channel number.
3. Press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, then press (C V/M) key until radio emits "DUDU" beep, channels are saved successfully.

NOTE: To make this setup, L1 and U1 must in same frequency band. L2 and U2 must in same frequency band.

○ SHORTCUT OPERATIONS

Turn On/ Off FM Radio



Under standby state, press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, then press [1 FM] key, LCD displays "**FM ON**" and current FM radio frequency, FM radio function is on. When FM radio is on, press (B MAIN) key, LCD displays "**FM OFF**", FM radio is mute.

When FM radio is on, press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, press [1 FM] key to turn off FM radio and return to radio state. Re-start radio also can exit FM radio function.

For Version D

Version D has FM/AM/SW/LW total 4 FM radio bands. Press (A FUNC) key then press [1 FM] key to turn on FM radio, later press (A FUNC) key then press [* BAND] key to switch between FM/AM/SW/LW band, quickly press (B MAIN) key will mute /un-mute FM radio.

FM: 64~108MHz(RX)

AM: 118~136MHz(RX)

SW: 2.3~29.99MHz(RX)

LW: 0.52~1.71MHz(RX)

Note: AM/SW/LW require special antenna. When AM is on, the downside RX channel is occupied.

Add/Cancel Optional signal decode function

Under standby state, press (A FUNC) key, the top left corner of LCD displays " ✉" icon, press [2 TONE] key.

1. LCD display "**DTMF**" and "**T**" icon, DTMF signal add in current channel.

2. Repeat above operation, LCD display "**5TONE**" and "**T**" icon, 5TONE signal add in current channel.
3. Repeat above operation, LCD display "**2TONE**" and "**T**" icon, 2TONE signal add in current channel.
4. Repeat above operation, LCD display "**MSK**" and "**T**" icon, MSK signal add in current channel.(Version D)
5. Repeat above operation, LCD display "**OFF**", the "**T**" icon disappear, no optional signal in current channel.

NOTE: When this function is on, user must setup 07th menu to be TONE option, then DTMF/5TONE/2TONE/ MSK can be used.

CTCSS/DCS Scan

Press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, press (3 TSCA) key to enter into CTCSS/DCS scan. Under this state, rotate channel switch to change scan direction. When scan the matching CTCSS/DCS signaling, it will stay 5seconds and then go on scanning. Press any other keys except (A FUNC) , (* BAND) , (# BANK) key to exit.

NOTE: This function is invalid when radio works in professional mode or the arrow directed channel no setting CTCSS/DCS signaling.
In current channel, if signaling set as CTCSS, it will scan CTCSS, if sets as DCS, it will scan DCS.

○ SHORTCUT OPERATIONS

Offset Frequency Direction Setup

Under standby state, press [A FUNC] key, the top left corner of LCD displays " ✉" icon, press [4 +/-] key to choose offset frequency direction. There are 3 options, Positive offset, Minus offset, shut off offset.

6. **(+) Positive offset:** Indicates TX frequency is higher than RX frequency. When enable reverse function, the RX frequency is higher than TX frequency.

7. **(-) Minus offset:** Indicates TX frequency is lower than RX frequency. When enable reverse function, the RX frequency is lower than TX frequency.

8. **None:** Indicates shut offset off.

Under frequency mode (VFO) or channel mode, press [A FUNC] key then press [4 +/-] key to choose positive offset direction(+), minus offset direction (-) , shut offset off one by one (Please refer to offset frequency setup).

NOTE: This function is unavailable in professional radio mode.

Frequency/Channel Scan

Under corresponding mode, press [A FUNC] key, the top left corner of LCD displays " ✉ " icon, then press [5 SCAN] key to start frequency scan or channel scan.

1. Frequency Scan
Under VFO mode, frequency scan is available. This function is used for monitoring signal of various communication frequency by radio 'step' setup, press numeric key or [D ESC] key to exit.

2. Channel Scan
Under channel mode, this function is used for monitoring signal of each channel

in this mode. Press numeric key or (D ESC) key to exit.

NOTE:

- **Frequency scan is of all bands scan, it scans upwards as your STEPPING setting.**
- **In channel scan, the skipped channel is not in the line of scanning. Scan upwards as per channel no. (please refer to channel scan skip).**
- **Frequency/channel scan can change scan direction by rotating channel switch, when find a matching carrier wave and signaling, the radio will stay 5 seconds then go on scanning. (Please refer to scan setup)**

If turn off radio in scan mode, when re−power on, radio will resume scanning automatically.

Channel Scan Skip

Under channel mode, press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, then press (6 SKIP) key to set current arrow directed channel as Channel scan skip. Repeat above operation to cancel channel scan skip.

1. LCD displayed "**S**" means the current channel will not be scanned.

2. "**S**" icon disappeared means the current channel will be scanned.

Frequency Reverse

Under standby state, press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, then press (7 REV) key to set arrow directed channel as frequency reverse, repeat above operation to turn off frequency reverse.

1. When LCD displays "**R**" icon, it means current arrow directed channel open the frequency reverse function, the TX frequency and RX frequency is interchanged,

if CTCSS/DCS signaling is set, it will also interchange.

2. When "**R**" icon disappears, it means reverse function is close.

TX Power selection

Under standby state, press [A FUNC] key, the top left corner of LCD displays " ✉ " icon, then press [9 HI/LO] key to choose High/Low power for current arrow directed channel.

1. When LCD displays "**L**" icon, it means low power is chose.

2. When LCD displays "**H**" icon, it means high power is chose.

Talk Around function

Under standby state, press [A FUNC] key, the top left corner of LCD displays " ✉ " icon, then press [* BAND], the arrow directed channel will enable talk around, repeat the above operation to close talk around.

1. **TX=RX:** Enable talk around, current channel transmit at RX frequency, if CTCSS/DCS signaling is set, it will interchange decoding CTCSS/DCS as encoding.

2. **OFF:** Close talk around.

DTMF code Transmit and Enquiry

1. Press [A FUNC] key, the top left corner of LCD displays " ✉ " icon, then press [0 DTMF] key, LCD displays DTMF data and group number (total 16groups) of current group.

2. Rotate channel switch to choose desired group and DTMF data, press PTT key to transmit selected DTMF signaling. If current group not edit DTMF data, LCD

displays "**EMPTY**".

3. When current group displays "**EMPTY**", press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, press and hold (O DTMF) key until radio emits "DU" beep, radio enters into DTMF edit state, LCD displays "_____", now you can enter desired DTMF data by keypad.

4. When finished editing, press side key [PF2] to save DTMF signaling.

Keypad lock

In order to prevent wrong operation, user can make use of keypad lock function.

When keypad lock is turned on, only channel selector is available for changing channels, all other keys are locked. Keypad lock operation can be done through software programming and radio itself.

1) Radio itself operation

Under standby state, press (A FUNC) key, the top left corner of LCD displays " ✉ " icon, then press and hold (# BANK) key until radio emits "DU" beep, LCD displays "🔒" icon, keypad is locked. Repeat above operation, "🔒" icon disappears, key lock function is cancelled.

2) Software Programming

ON: Keypad lock option tick on.

OFF: Keypad lock option tick off.

Note: When keypad lock is turned on by software programming, the radio itself keypad lock operation is invalid.

○ SHORTCUT OPERATIONS

Single-band Switching

To reduce the interference from the sub-channel when the main channel be used. You can use single-band switching function, turn off the sub-channel bands quickly.

1. In standby mode, press the [✱ BAND] button, the radio will display the PC channel, and turn off the processor channel.

2. Click the [✱ BAND] button again, the radio will display the processor channel, and turn off the PC channel.

3. Press the [✱ BAND] button again to return to dual-band show.

CTCSS/DCS encode and decode

1. Press [A FUNC] key then press [PF2] to enter into setup.
2. Press [PF2] key to choose CTCSS, DCS or OFF, when choose DCS, press [✱ BAND] key to select positive or negative code.
3. Rotate Channel selector to choose desired CTCSS/DCS encode and decode.
4. Press [D ESC] key or [# BANK] key to confirm and exit.

Display Mode Setup

There are three kinds of display modes for optional.

1. Press [PF2] key to turn on radio, hold [PF2] key until radio emits beep.

2. Press (B MAIN) / (C V/M) key to choose No.01 function item, it shows "**DSP**" on LCD.

3. Rotate channel switch to choose desired setup.

FREQ: Frequency+Channel mode, radio displays current channel name + frequency, press (C V/M) key to switch into VFO mode.

CH: Channel mode, 1~24 items of function menu will hide automatically, user can only operate some functions. It is unable to switch into VFO by pressing (C V/M) key. This model can be used for Amateur mode.

NAME: Channel+Name Tag mode, radio displays current channel number +channel name, press (C V/M) key to switch into VFO mode.

4. Press (D ESC) key or (# BANK) key to confirm and exit.

Resume Factory Default

You can make all the settings of radio return to the factory default settings when radio can not work normally because of wrong operation or error setup.

1. Press [PF2] key to turn on radio, hold [PF2] key until radio emits beep.

2. Press (B MAIN) / (C V/M) key to choose No.02 function item, it shows "**RESTOR**" on LCD.

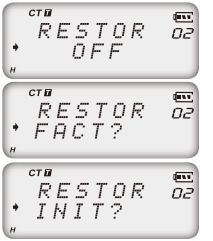
3. Rotate channel switch to choose desired setup.

○ SENIOR FUNCTION OPERATIONS

OFF: No operations.

FACT: Resume all items to factory default, including channel and background settings.

INIT: Resume background settings to factory default, channel operations are keeping.



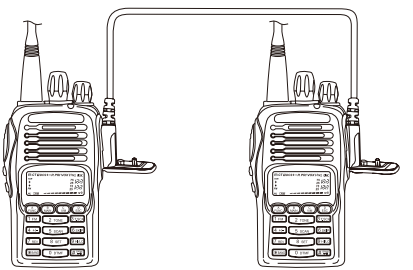
4. Press [D ESC] key to exit current selection.

5. Press [# BANK] key to confirm current selection.

Cloning Cable

This feature will copy the programmed data and parameters from the master unit to slave units. It copies the parameters and memory program settings.

Connection: Use optional CP04 cloning cable, connect Read/write frequency port on both master and slave, setting and programing as the requirement below.



○ SENIOR FUNCTION OPERATIONS

[Settings: Master side]

1. Press the [PF1] side key to Power on, the display shows "CLONE", the master unit enters into copy mode .

2. Press [PF1] key, the display appears "CLONE XX" XX stands for the data amount being cloned.

3. When the data transfer is completed, slave unit restarts, the master unit display appears "CLONE 04".

4. Master unit remain copy mode state to prepare for the next copy, if reboot the master means exit copy mode to return to normal mode.

[Settings: Slave side]

1. In the standby mode, when the slave receives the data, the display shows "**CLONE XX**" XX stands for the data being cloned.

2. When data reception is complete, the slave unit returns to normal mode and restart automatically.

3. Turn off the slave's power, remove the cable, insert another slave which you want to copy.

If the data is not successfully transmitted, turn off the master and slave, check if the cable connections are correct, and then repeat the whole process again.

○ MEMORY BANK

10 memory banks 0-9 are available for 3318UV, bank 0 includes all edited channels. Bank 1-9 can be assigned maximum 32channels, a channel can be assigned to more groups by software programming or radio itself operation.

Assign channel to memory bank:

1. In Memory channel mode, choose a memory channel, press [# BANK] key, bank number show in the channel number position as "**-X**" twinkling.

2. Turn Channel selector to choose desired memory bank, press [# BANK] key, the memory channel will be assigned to the bank.

3. If the bank already has 32 channels, the new assigned channel will replace the last channel in bank.

Memory Bank Switch

In Channel mode, press [# BANK] key twice to enter memory bank mode, press [A FUNC] key then press [8 SET] key to enter into function menu.

1. Press [B MAIN] / [C V/M] key to choose menu 35(A)/18(D), LCD show "**BAK--**".

2. Turn Channel switch to choose bank 0--9, press [# BANK] key confirm

3. Rotate the channel switch clockwise to enter into desired memory bank.

Note: When the bank linking is on, if no channel in the selected bank, radio will enter into the next linking bank. When the bank linking is off, if no channel in the selected bank, current channel will be assigned to this bank.

Memory Bank Exit

When radio in memory bank mode, press [# BANK] key twice to exit and return to channel mode.

Bank linking

1. In channel mode, press [# BANK] key twice to enter into memory bank mode, press [A FUNC] key then press [8 SET] key to enter into function menu.

2. Press [B MAIN] / [C V/M] key to choose menu 36(A)/19(D), LCD show "**BALK**".

ON: Turn on Bank linking.

The following menus allow adding or deleting banks.

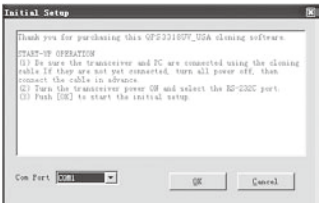
Menu 37(A)/20(D) BANK LINK 1 ON/OFF
Menu 38(A)/21(D) BANK LINK 2 ON/OFF
Menu 39(A)/22(D) BANK LINK 3 ON/OFF
Menu 40(A)/23(D) BANK LINK 4 ON/OFF
Menu 41(A)/24(D) BANK LINK 5 ON/OFF
Menu 42(A)/25(D) BANK LINK 6 ON/OFF
Menu 43(A)/26(D) BANK LINK 7 ON/OFF
Menu 44(A)/27(D) BANK LINK 8 ON/OFF
Menu 45(A)/28(D) BANK LINK 9 ON/OFF
Menu 46(A)/29(D) BANK LINK 0 ON/OFF

OFF: Turn off Bank linking, hide menu 37-46(A)/20-29(D).

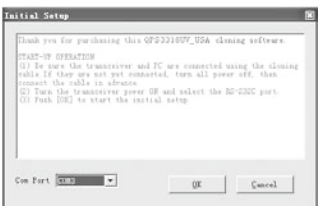
When bank linking is on, one or more banks can be added into scan list. In memory bank mode, enable the scanning function, radio will scan the channels in current bank. During scanning, long pressing key 0-9 will add or delete the corresponding memory bank.

○ Programming software starting (Takes Windows XP system for example)

1.Double Click "QPS3318UV_USA setup.exe", then go on installing as computer command.
2.Click "START" menu of computer, choose "USB To COM" in QPS3318UV_ USA item and click it. Please install USB To Comport drive program as computer command.
3.Please plug PC03 programming cable into USB port of PC device, then connect to radio.
4.Double click "QPS3318UV_USA" shortcut icon, or click QPS3318UV_ USA item in "START" menu to open programming software interface.
5.Choose "COM Port" as computer command, then click "OK" to start programming software.



(picture 1)



(picture 2)

NOTE: In same computer, if programming cable plugs into different USB port, the COM Port number is different.

Before programming, radio should be turned on firstly.
Not turn on or turn off radio when it is connecting with computer, otherwise it may cause radio not read or write data. If this situation is happened, please shut down programming software, remove programming cable from computer, then re-plug cable into computer and re-start programming software, re-choose COM Port, the programming will work normally.

NOTE:
The programming software is attached with product identifying system. In first time run, the radio should be connected to computer, otherwise the software can not run.

○ TECHNICAL SPECIFICATION

General		
Frequency Range	VHF：(RX) 220~260MHz))	
	FM radio	FM: 64~108MHz(RX)
Channel Capacity		200 channels
Channel Spacing		12.5KHz
Phase-locked Step		0.1KHz
Operation Voltage		7.4V DC ±20%
Battery Life		More than 12 Hours(1500mAh), by 5-5-90 working cycle
Frequency Stability		±2.5ppm
Operation Temperature		-20℃~ +55℃
Size		117.5x60x35.5mm (with battery)
Weight		235g (with battery)

Receiving Part	
	band
Sensitivity (12dB SINAD)	≤0.35μV
Adjacent Channel Selecitvity	≥60dB
Intermodulation	≥60dB
Spurious Rejection	≥70dB
Hum & Noise	≥40dB
Audio Distortion	≤5%
Audio Power Output	1000mW/10%

○ TROUBLE SHOOTING GUIDE

Problem	Corrective Action
No power	A.The battery may be exhausting. Recharge or replace the battery. B.The battery may not be installed correctly. Remove the battery and install it again. C.The power switch is broken; send it to local dealers to repair. D.Battery touch is broken; send it to local dealers to repair.
Battery power dies shortly after charging.	The battery life is finished. Replace the battery pack with a new one.
Transceiver cannot scan	The channels are not in scan list. (Professionals set it.)
All band noisy after programmed	Turn on squelch when programmed. Non-professionals are advised not rammed to adjust this function.
No sound after using earphone. for a while	Earphone jack is broken. Please contact with local dealers to repair.
Communication distance becomes short, and Low sensitivity	A.Check whether the antenna is in good conduction and the antenna base do not come adrift. B.Antenna connector is broken or not or with sundries. Whether it has set in low power output. (Please contact with local dealers to repair.)
Cannot talk or hear other members in your group	A.Different frequency or channel, please change it. B.Different CTCSS/DCS/DTMF, please reset it. C.Out of communication range.

○ TROUBLE SHOOTING GUIDE

Can not power on or frequent power off	Check weather the battery touch is out of sharp or broken.
The receiving sound gets low or intermittent	Check weather the MIC is stoppage. Otherwise, please contact with local dealers to repair it.
Receiving intermittent with in big noise	A.Out of communication range or obstruct by tall buildings or in big noise. B.450 filter is broken, Please contact with local dealers to repair.
Loudspeaker become lower or with"ka ka"sound after using a certain time	Check whether the loudspeaker is broken, Iron powder or sundries is in the loudspeaker. Please contact with local dealers to repair.
Receive voice from the other party but can not transmit	Check [PTT] key.
Receiving indicator with green light but no sound	A.Low volume, please clockwise to turn on. B.Loudspeaker is broken, please contact with local dealers to repair. C.Earphone jack is broken, please contact with local dealers to repair. D.Volume switch is broken.

ATTACHED CHART

CTCSS Frequency Chart

1	62.5	12	94.8	23	136.5	34	177.3	45	218.1
2	67.0	13	97.4	24	141.3	35	179.9	46	225.7
3	69.3	14	100.0	25	146.2	36	183.5	47	229.1
4	71.9	15	103.5	26	151.4	37	186.2	48	233.6
5	74.4	16	107.2	27	156.7	38	189.9	49	241.8
6	77.0	17	110.9	28	159.8	39	192.8	50	250.3
7	79.7	18	114.8	29	162.2	40	196.6	51	254.1
8	82.5	19	118.8	30	165.5	41	199.5	52	user-defined
9	85.4	20	123.0	31	167.9	42	203.5		
10	88.5	21	127.3	32	171.3	43	206.5		
11	91.5	22	131.8	33	173.8	44	210.7		

1024 groups DCS frequency chart

000	001	002	003	004	005	006	007
010	011	012	013	014	015	016	017
020	021	022	023	024	025	026	027
030	031	032	033	034	035	036	037
040	041	042	043	044	045	046	047
050	051	052	053	054	055	056	057
060	061	062	063	064	065	066	067
070	071	072	073	074	075	076	077
100	101	102	103	104	105	106	107
110	111	112	113	114	115	116	117
120	121	122	123	124	125	126	127
130	131	132	133	134	135	136	137
140	141	142	143	144	145	146	147
150	151	152	153	154	155	156	157
160	161	162	163	164	165	166	167
170	171	172	173	174	175	176	177
200	201	202	203	204	205	206	207
210	211	212	213	214	215	216	217
220	221	222	223	224	225	226	227
230	231	232	233	234	235	236	237
240	241	242	243	244	245	246	247

○ ATTACHED CHART

250	251	252	253	254	255	256	257
260	261	262	263	264	265	266	267
270	271	272	273	274	275	276	277
300	301	302	303	304	305	306	307
310	311	312	313	314	315	316	317
320	321	322	323	324	325	326	327
330	331	332	333	334	335	336	337
340	341	342	343	344	345	346	347
350	351	352	353	354	355	356	357
360	361	362	363	364	365	366	367
370	371	372	373	374	375	376	377
400	401	402	403	404	405	406	407
410	411	412	413	414	415	416	417
420	421	422	423	424	425	426	427
430	431	432	433	434	435	436	437
440	441	442	443	444	445	446	447
450	451	452	453	454	455	456	457
460	461	462	463	464	465	466	467
470	471	472	473	474	475	476	477
500	501	502	503	504	505	506	507
510	511	512	513	514	515	516	517
520	521	522	523	524	525	526	527
530	531	532	533	534	535	536	537

540	541	542	543	544	545	546	547
550	551	552	553	554	555	556	557
560	561	562	563	564	565	566	567
570	571	572	573	574	575	576	577
600	601	602	603	604	605	606	607
610	611	612	613	614	615	616	617
620	621	622	623	624	625	626	627
630	631	632	633	634	635	636	637
640	641	642	643	644	645	646	647
650	651	652	653	654	655	656	657
660	661	662	663	664	665	666	667
670	671	672	673	674	675	676	677
700	701	702	703	704	705	706	707
710	711	712	713	714	715	716	717
720	721	722	723	724	725	726	727
730	731	732	733	734	735	736	737
740	741	742	743	744	745	746	747
750	751	752	753	754	755	756	757
760	761	762	763	764	765	766	767
770	771	772	773	774	775	776	777

NOTE: N stands for positive code. I stands for inverted code. 1024 groups of DCS in total.

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

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.

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