

# **KONGTOP** **KT-500B**

## **Professional Portable Radio**

- Scrambler
- Frequency Configuration
- 128 Channels
- Iconic LCD and Full Keypad
- PC Programmable
- Priority Channel Scan
- ANI
- FM Radio



KONGTOP INDUSTRIAL (SHENZHEN) CO., LTD.

### NOTICE

Regulations of the People's Republic of China on the Management of Radio Operation prescribes: The units and individuals establishing and using radio transmission equipment in the People's Republic of China must apply and handle station establishing procedures at the corresponding radio regulatory organ and can only use after getting the radio station license.

### To the users

Thank you very much for choosing FM VHF wireless transceiver of our factory. The interphone has novel design, reasonable and beautiful technological structure and stable performance, and it is designed to satisfy the demand of the users for microminiature interphone with convenient operation and superior performance.

To fully understand the performance of the interphone, please read this manual in detail before use.

This manual applies to:  
KT-500B

# KONGTOP

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## Unpacking and device inspection

Please carefully take out the transceiver from the packing box. We suggest you confirm if the articles listed in the following table are in the box before abandoning the packing materials. If any article is lost or damaged during the carrying, please immediately submit document for claim to the deliveryman.

### Attached accessories

Article	Quantity
Antenna	1
Battery group	1
Battery charger	1
AC-DC ADAPTOR	1
Instruction manual	1

### Option

Article
Earphone, microphone
Frequency writer
Duplication line
Frequency writing software

## Maintenance

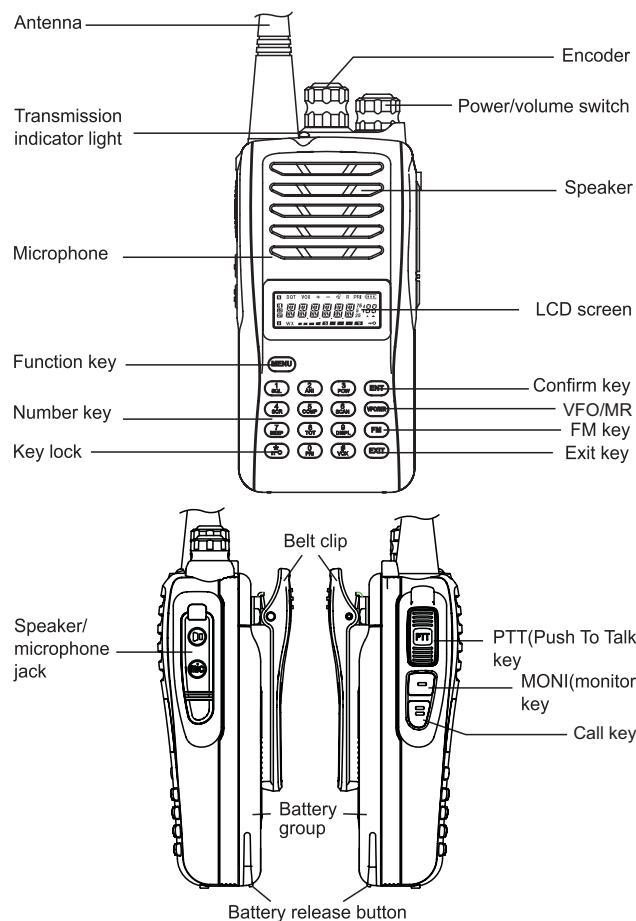
**The transceiver you purchased is the delicately designed electronic product, and you should use carefully. The following suggestions can make the life of your interphone longer.**

- Please don't try to disassemble the transceiver, treatment of the unskilled persons to the phone may cause damage.
- When using stabilized power, the power voltage must be between 6V and 8V so as to avoid damage to the transceiver.
- Please don't expose the transceiver in the sun for a long time or put it in too hot places; the high temperature will shorten the life of the electronic parts, and may cause distortion of the plastic parts.
- Please don't put the transceiver in dusty or dirty places.
- Please keep the transceiver dry. The rainwater or moisture will corrode the electronic circuit.
- If the transceiver emits peculiar smell or smoke, please immediately turn off the power of the transceiver and get off the charger group or battery group on the transceiver, and then contact the distributor.
- Transmission cannot be carried out when the antenna is not installed.

## Function characteristics

- VHF 4W/1.5W
- 128 groups of memory channels
- VOX
- CTCSS / CDCSS
- Multi-functional scan
- Scrambler
- Radio function
- Chinese and English programming software, and can use the computer to write frequency
- ANI
- Function of call ringing
- Function of reversing frequency
- Selection for high or low power
- Function of busy channel lockout
- Function of Time-out Timer(TOT)
- Function of eliminating ending voice
- Wireclone function


## Get familiar with the transceiver



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## Operation guide

### Key, control button, switch, indicator

■ PWR/VOL(power/volume) Control button	Used to turn on or turn off the power of the transceiver and adjust the volume ton.
■ Transmission indicator	When pressing PTT switch, the indicator flashes red light, indicating that the call is in transmission status.
■ Busy indicator	When in monitoring status and the squelch is turned on, the indicator displays,  showing the phone is in busy status..
■ PTT(push to talk) key	Switch of the transmission and receiving status of the transceiver.
■ MON(monitor) key	When in receiving status, press this key and you can monitor the situation on the working channel; when you press the MON key, the busy indicator flashes.
■ ENT key	Used to confirm the functions chosen.
■ EXIT key	Used to exit.

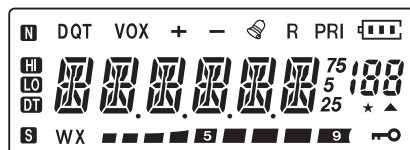
### Jack and connector

■ SMA connection	Used to connect the antenna equipped with the transceiver.
■ Externally connected microphone and speaker jack	If you are using externally connected microphone, speaker or both, please connect to this jack; when the jack is not in use, please don't let the water flow into the jack.

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## Display

On the display, you can see all the indications indicating the selected content; sometimes, you may be unable to memorize the meaning indicated by the indicator light or the method to set, and now you will find the following table very useful.



■	Battery capacity indication
■ +	Dispersion higher than the receiving frequency
■ -	Dispersion lower than the receiving frequency
■	Narrowband indication
■	Electricity function indication
■	key lock
■ DQT	Digital sub-audio frequency
■ QT	Analogue sub-audio frequency
■ VOX	Sound control function
■	Tone function indication
■ R	Display reverse frequency
■ PRI	Priority scan
■	Receiving signal strength, power indication
■	Frequency display
■ 188	Function menu
■ *	When the channel selected can be opened through scanning, the symbol appears on the display
■ ▲	Backlight indication

## Basic use method

### Connection of the antenna

Insert the bottom of the antenna equipped with the transceiver to SMA connector; turn the antenna clockwise until the antenna matches the antenna seat, and this shows that the antenna is installed to the position. When getting off the antenna, turn the antenna counterclockwise until the antenna leaves the antenna seat, and then pull out the antenna from the SMA connector.

### Turn on and turn off the power

When you want to turn on the power of the transceiver, turn PWR/VOL control button clockwise, and you will hear the "click" sound. All the display symbols and frequencies of the transceiver will display on the screen (as the phone has automatic squelch function, before you haven't received the call, the speaker will not make any sound). When your receive calls, you can use this button to fine adjust the volume to make it suit your listening habit. When you want to turn off the power of the transceiver, turn PWR/VOL control button counter clockwise until hearing the "click" sound, and there is no display on the screen, showing that the power of the transceiver is turned off.

### Adjust the volume

After turning on the power, as the phone has automatic squelch function, before you receive any call, the speaker does not have any sound; you can press MONI key, and then turn PWR/VOL button; turning VOL control button clockwise will increase the volume, and turning the button counterclockwise will reduce the volume.

### Monitor function

You only need to press MONI key and use PWR/VOL control button to adjust the background noise level of the channel to the degree that makes you comfortable, and then you can directly hear the sound instead of waiting for your call signals; as long as you press the monitor key, you can always monitor the situation on the channel that you selected.

### Transmit

Firstly, press MONI key and listen for a moment to confirm that the channel you are using is not in busy status; then press PTT key, and speak to the microphone in the front of the transceiver in common tone.

During the time that you press PTT key, the transmission indicator flashes red light.

If you are too near to the microphone or the voice is too loud, distortion may increase and the clarity of your signals at the receiving end will decrease.

Release PTT key so as to listen to the talk of your partner.