



## ZTE PH500 VHF

### QUICK REFERENCE GUIDE

### DIGITAL PORTABLE RADIO

### Legal Information

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### Getting Started

**Please read the following carefully:**

How to use this manual...

What can you get from your agent or system administrator...

#### How to use this manual?

Please refer to each chapter for the details.

#### What can you get from your agent or system administrator?

You may ask your agent or system administrator about the following issues:

- Does your Handheld Transceiver (HT) have default channels?
- Which buttons can be used to access other functions?
- Which optional accessories do you need?

This manual describes basic operations on an HT. Your agent or system administrator may have customized your HT to address your special needs. For details, contact your agent or system administrator.

### Ready to Use the HT

Perform the following steps to assemble your HT:

Charge the battery.

Install the battery.

Install the antenna.

Install the belt clip.

Install the universal interface cover.

Turn on the HT.

Adjust the volume.

#### Charge the Battery

The HT is powered by a Li-Ion battery. To protect the battery from damage and comply with the warranty conditions, you can use only the charger provided with the battery for charging. To maximize battery performance, it is recommended to charge the battery for 14 to 16 hours before the first use.

#### Install the Battery

Align the battery with the battery slot on the rear side of the HT. Push the battery into the slot until it is fastened. Before removing the battery, turn off the HT first. Press the battery fastener, and then remove the battery.

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#### Install the Antenna

Turn off the HT, place the antenna into the installation hole, and turn the antenna clockwise. To remove the antenna, turn the antenna anticlockwise. Before removing the antenna, ensure that you have turned off the HT and removed the universal interface cover.

To replace the antenna, use a specified antenna to replace the old one. Otherwise, your HT may be damaged.

#### Install the Belt Clip

Align the screw holes on the belt clip with those on the rear side of the HT, and fasten the belt clip with screws.

#### Install the Universal Interface Cover

The universal interface is on the antenna side of the HT. It connects an accessory to your HT. Insert the universal interface cover fastener into the universal interface slot. Press the cover, so that it is fastened to the RF interface. Tighten the screw clockwise to fix the interface cover to the HT.

To remove the interface cover, press the cover, and loosen the screw anticlockwise. Lift up the cover, and slide it down.

#### Turn On the HT

Turn the volume/power knob clockwise until you hear a click sound. The HT gives a short beep sound, indicating that the HT is successfully turned on.

#### Note:

If you disable the tone/prompt function, no beep sound can be heard (for details, refer to the Enable or Disable the Tone/Prompt Function section). If your HT cannot be turned on, check the battery. Verify that the battery is charged and properly installed. If your HT still cannot be turned on, contact your agent. To turn off the HT, turn the knob anticlockwise until you hear a click sound.

#### Adjust the Volume

Turn the volume knob clockwise to turn up the volume. To turn down the volume, turn the knob anticlockwise.

### HT Control

Please read the following carefully:

- HT control options
- Programmable buttons
- PTT button

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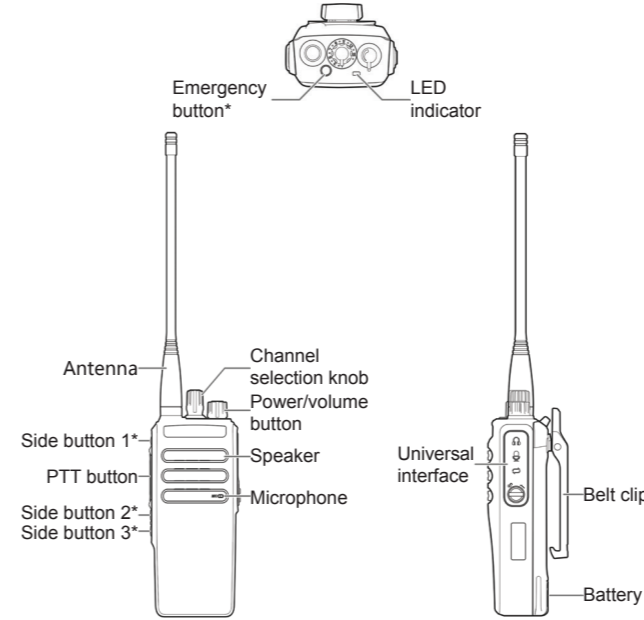
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### HT Control Options



#### Note:

The button marked with an asterisk means a programmable button.

#### Programmable Buttons

Your agent can set a programmable button to a shortcut button for a function or channel or call group in accordance with the duration for which the button is pressed:

- Press: means pressing a button and immediately releasing the button.
- Press and hold: means pressing a button and holding the button for a pre-programmed duration (between 1 second and 3.75 seconds).

#### Assignable HT Functions

- Emergency call: initiates or cancels an emergency alarm or call.
- Monitoring: monitors any activities in a selected analog channel.
- One-press call: initiates a predefined private call, group call, or short message by pressing one button.

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- Encryption: enables or disables the encryption function for digital channels.
- Scanning: enables or disables scanning.
- VOX: enables or disables the VOX function.
- Zone: changes the current zone of the HT.

#### Assignable Setting Functions

- Tone/prompt: enables or disables the tone/prompt function.
- Power level: switches between transmitting power levels.
- Noise reduction: switches between large noise reduction and normal noise reduction.

#### PTT Button

Each channel can be configured as a digital channel.

- During a call, if you press the PTT button, the HT transmits signals to other HTs in the call. Press and hold the PTT button to talk. Release the PTT button to listen to other members in the call. When you press the PTT button, the microphone is activated.
- If there is no existing call, you can press the PTT button to initiate a call (for details, refer to the Initiate a Call section). If the call admission tone function is activated, wait until the short prompt tone ends.
- During a call, if the "idle channel prompt" function is enabled (preprogrammed by your agent), when the target HT (that receives your call) releases the PTT button, you will hear a short prompt tone, indicating that the channel becomes idle, and you can respond.
- If the existing call is interrupted (for example, when you receive an emergency call), you will hear an idle channel prompt tone. You can disable the "idle channel prompt" function by disabling the tone/prompt function (for details, refer to the Enable or Disable the Tone/Prompt Function section).
- To switch between digital channels, turn the knob.

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### Status Indicators

You can learn about HT operation through the following:  
LED indicator...

Prompt tone...

#### LED Indicator

The LED indicator indicates operation of the HT.

- If the indicator is lit red, it indicates that the HT is transmitting signals.
- If the indicator is lit green, it indicates that the HT is being turned on, or receiving a call or data.

#### Prompt Tone

Prompt tones can help you learn about the HT status or response to data receiving.

- Continuous tone: The HT gives a series of single tones continuously.
- Periodic tone: The HT gives a tone periodically based on the specified cycle. The tone is automatically started, stopped, and repeated.
- Repeated tone: The HT gives repeated tones until you end it.
- Momentary tone: The HT gives a tone for a duration specified by the HT.
- High-pitch prompt tone
- Low-pitch prompt tone
- Positive prompt tone
- Negative prompt tone

### Receive and Initiate a Call

You can use your HT after learning how to configure the HT.

Get familiar with the basic call function as follows:

Select a zone...

Select a channel, a user ID, or a call group ID...

Receive and respond to a call...

Initiate a call...

#### Select a Zone

A zone defines a channel group. The HT supports a maximum of two zones, and each zone supports a maximum of 16 channels.

Perform the following steps:

1. Press the pre-programmed zone button.
2. If you hear a positive prompt tone, it indicates that the HT switches from zone 1 to zone 2. If you hear a negative prompt tone, it indicates that the HT switches from zone 2 to zone 1.

### Accessories

Your HT is compatible with the following accessories (for details, contact your agent):

Antenna

Battery

Charger

Earphones

Remote speaker and microphone

Other accessories

## FCC Caution:

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

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.

## IMPORTANT NOTE:

### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .

This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

## FCC Statement

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Note: 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.

## Compliance with RF Exposure Standards

PH500 VHF complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR §§1.1307, 1.1310 and 2.1093
- 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