QUICK REFERENCE GUIDE

DIGITAL VEHICLE-MOUNTED TERMINAL

Part Name	Function Description	
P1~P3 keys	-Same functions as the relevant keys of PM790.	
Call/Answer key		
Hook key		
Return key		
Up/Down key		
Emergency call key		
OK key	Same functions as the Menu/OK key of PM790.	
Dial-up keypad	Including Number/Letter keys, * key and # key, all for dialing up a number.	
PTT key	Used to initiate PTT calls.	

You can select a cluster by the following two ways:

Press the Menu/OK key to open the main menu. Press the Up/Down button to select a cluster. After the selected group is opened, set it to

the cluster menu. Repeat the steps as described above.

One cluster list is set by factory default. This list contains 64 clusters.

Legal Information

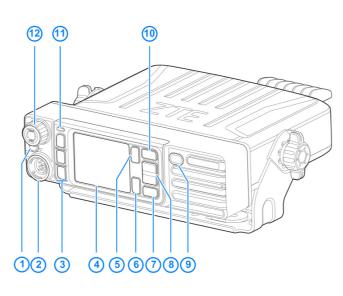
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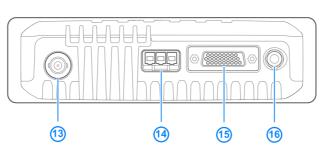
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Getting to Know Your Device

Device Overview





Keys, Interfaces, and Indicators

Name	Function	
Emergency call key	Pressing this key launches an emergency call with the current number.	
Handheld microphone interface	Connects to a handheld microphone to make PTT calls.	
P1~P3 keys	Opens a preset function screen directly.	
Screen	Shows the current information of the device.	
Back/Delete key	Returns to the previous screen.Deletes what has been input.	
Menu/OK key	Opens the menu of the device.Confirms the selection.	
Call/Answer key	Initiate a call or answer an incoming call.	
Up/Down navigation key	Browses and selects an option on the menu.	
Power key	Long-pressing the key to power on/off the device.	
Hook key	Used to end or reject an incoming call.	
LED indicators	Indicates the communication status of the device (for details, see "LED Indicators").	
Volume/ Channel knob	 Used to adjust the volume of the device. Press and then rotate the knob to select a channel. 	
	Handheld microphone interface P1~P3 keys Screen Back/Delete key Menu/OK key Call/Answer key Up/Down navigation key Power key Hook key LED indicators	

Back Side		
No.	Name	Function
13	Antenna interface	Used to connect an external antenna.
14	Power interface	Used to onnect to the power sup.
15	DB26 accessory interface	Used to connect to the accessories.
16	GPS antenna interface	Used to connect an external GPS antenna.

Programmable keys

In order to improve operation convenience, PM790 has three programmable keys: P1, P2, and P3, each of which can be programmed with functions by the distributors. Current functions of the keys are:

Key	Current Function	
P1	Adjusts the transmit power level (low or high).	
P2	Enables/disables the silencing function.	
P3	Pending.	

Status Indication

LCD icons

Icons are shown on the LCD screen to indicate the statuses as follows:

Icon	Description	Icon	Description
Yul	Signal strength	L	Low power transmission at the current channel
⊜	Unread messages	H	High power transmission at the current channel
	Inbox space is full	2	Alert tone silent
⊙	The device is in scanning status (not shown in background scanning)	ц×	Interphone silent
÷Ē⇒	The device is in roaming status	©	GPS in working status
•	Incoming call	62	In a call
×	Missed call(s)		

Basic Operations

Indicator Status | Device Status

Power On/Off

LED Indicators

Solid on in

Solid on in

orange

Hold the **Power** key to power on/off the device.

LED indicators show the operation status of the device.

Data being received.

microphone to speak.

After a call is set up successfully, there is no voice call

being transmitted or received in the traffic channel and now you can hold the PTT key on the handheld

Solid on in red Data being transmitted.

Flashing quickly Scanning in progress.

Adjust the Volume

After the device is powered on, rotate the Volume/Channel knob clockwise to increase the volume or anti-clockwise to decrease the volume.

Connect a Handheld Microphone

Note:

The handheld microphone is an important accessory for PM790. A PTT call can be made only after a handheld microphone is connected. You can use the handheld microphone to perform the following

- Browse the function menu of the PM790, select a function and
- Input a private or group call number.
- Initiate, answer and hang up a PTT call.

Parts and respective functions of the handheld microphone are as

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PTT kev	Used to initiate PTT calls.	

Select a Cluster

You can put group contacts into a cluster to manage the contacts efficiently. The device supports 64 clusters, each of which can contain 16 group contacts.

"Default" and then press the **OK** key to switch to the selected cluster.

In the standby interface, press the group call management key to open

Select a Group Call Contact

You can select a group call contact in the following ways after successful startup and registration:

If no group call contact can be selected, an alert (with alert tone) of empty group will be given.

Menu

Press the Menu/OK key to open the main menu. Select Cluster and then press the **Up/Down** key to select a group. Select **Member** and then press the **OK** key to enter the group call list corresponding to the selected cluster. Press the **Up/Down** key to select needed group call contact.

Shortcut

If the distributor has set a shortcut key for the current group call contact, you can press this key to enter the group call list menu corresponding to the current cluster and then press the **Up/Down** key to select the needed group call contact.

For the answering interphone to have the best volume, it is recommended to keep your mouth about 2.5~5 cm away from the

Private Call

Initiate a Private Call

You can initiate a private call by the following ways. While waiting for the called party to answer the call, the terminal will give a ring-tone

- Use **Contact** or **Call Logs** to initiate a call.
- 1. Press the Menu key to enter the main menu.
- 2. Select **Contacts** > **Contact**, or select **Call Logs** to enter the Outgoing/Incoming/Missed call list.
- 3. Press the **Up/Down** key to select the desired private call contact.
- 4. Press the PTT key on the handheld microphone to initiate the call.
- Manually dial up to initiate a call.
- 1. In the standby interface, use the dial-up keypad on the handheld microphone to input the needed private call number.
- 2. Press the Call key or handheld microphone PTT key or the # key to

• Use the Missed call list to initiate a private call. A missed private call can be initiated by pressing the Call key or

Rotate the **Group call select** knob to select the contact for a group call.

Answer key or handheld microphone PTT key within a preset time. The LCD icon is shown and an alert tone is given after the call is established successfully. If the call is not answered within the preset time, the missed call icon X is shown.

Terminate a Private Call

Answer a Private Call

If you want to end a call, press the Hook key. Note:

handheld microphone PTT key in the alert interface.

No call can be initiated if the device is not registered or the registration

A ringing alert is given and the LCD icon $\$ is shown when the device

receives a private call. The call is then established if you press the

Both the calling and called parties can terminate a private call.

Group Call

Note:

Initiate a Group Call

A group call can be initiated by one of the following ways:

• Initiate a call to the preset contact

In the standby interface, press the handheld microphone PTT key to initiate a group call to the group call contact selected by rotating the Group call select knob

- · Initiate a call to a group call contact
- 1. In the standby interface, press the Menu key to enter the main menu and select a cluster. Or press the Group call manage key to enter the cluster list.
- Select Cluster X > Member.
- 3. Press the **Up/Down** key to select the desired group call contact.
- 4. Press the **Call** key or handheld microphone **PTT** key to initiate the
- Manually dial up
- 1. In the standby interface, use the handheld microphone dial-up keypad to input the needed group call number. 2. Press the # key to switch to the group call.

3. Press the Call key or handheld microphone PTT key or the # key to

initiate the call. Answer a Group Call

After the device receives a group call, the call is automatically established without the need of pressing any keys. The LCD icon is shown and an alert tone is given after the call is established successfully.

After a group call is established, a member in the group can access the

Terminate a Group Call

Press the **Hook** key to terminate a group call. Note:

Only the calling party can terminate a group call.



An emergency call has the top priority, yet the device needs to be authorized first to make emergency calls.

You can initiate an emergency call by the following way:

- 1. Input a desired emergency call number
- 2. Press the # button to switch between Private call/Group call.
- 3. Press the **Emergency Call** key or handheld microphone **PTT** key or the **#** key to initiate an emergency call.

You can also bind a one-button call or a long-press number button to

Device Menu

Cluster

You can view the current cluster information

Call Logs

You can view the Outgoing/Incoming/Missed calls, or clear the call logs.

Contacts You can view the contact list or add a new contact.

Zone You can view the zone list and switch zones.

You can switch among three work modes: conventional, PDT Trunking,

Accessories

Settings

You can view and set accessories such as the positioning system.

Power Level

You can set the power level as low or high.

Radio Settings

- Language: Set the language of the device.
- Backlight: Can be set to Off, Infinite, and Timer.
- Brightness: Adjust the brightness of the screen
- **LED indication:** Can be set to enable or disable.

You can turn on/off the radio silent, set the tone volume, and set the alert tones for operations including the keypad, private call, group call, and power on/off.

- Alias Display: Two options are Alias and ID.
- Encrypt: You can enable or disable this function.
- Date: Set the date of the device. • Time: Set the time of the device.
- **Device Info** The device information is shown

Learning More

To learn about more information about your PM790, visit the website

For security information, refer to the user manual of PM790.

RF Energy Exposure Information

RF Energy Exposure Awareness And Control

Information For Fcc Occupational Use Requirements

I before using the DIGITAL MOBILE RADIO, review the following important RF energy awareness and control information and operational instructions. Comply with this information and instructions in order to ensure compliance with RF exposure guidelines.e the capability to access information in that form.



This radio is intended for use in occupational/controlled conditions, where users have full knowledge of their exposure and can exercise control over their exposure to remain below RF exposure limits. This radio is NOT authorized for general population, consumer, or any other use.

Changes or modifications not expressly approved by ZTE TRUNKING TECHNOLOGY CORPORATION could void the user's authority to operate the equipment.

This DIGITAL MOBILE RADIO uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. It uses RF energy or radio waves to send and receive calls. RF energy is one form of electromagnetic energy. Other forms include, but are not limited to, electric power, sunlight, and x-rays. RF energy, however, should not be confused with these other forms of electromagnetic energy, which, when used improperly, can cause biological damage. Very high levels of x-rays, for example, can damage tissues and genetic material. Experts in science, engineering, medicine, health, and industry work with organizations to develop standards for exposure to RF energy. These standards provide recommended levels of RF exposure for both workers and the general public. These recommended RF exposure levels include substantial margins of protection. All two-way radios marketed in North America are designed, manufactured, and tested to ensure they meet government-established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of two-way radios. These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it. Refer to the following websites for more information on what RF energy exposure is and how to control exposure to assure compliance with established RF exposure limits:

http://www.fcc.gov/oet/rfsafety/rf-faqs.html

http://www.osha.gov./SLTC/radiofrequencyradiation/index.html

Federal Communications Commission Regulations

Before it was marketed in the United States, the DIGITAL MOBILE RADIO was tested to ensure compliance with FCC RF energy exposure limits for two-way portable radios. When two-way radios are used as a consequence of employment, the FCC requires users to be fully aware of and able to control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a label directing users to specific user awareness information. The radio has an RF exposure product label. Also, the Product Safety Manual and this Operator's Manual include information and operating instructions required to control RF exposure and to satisfy compliance requirements.

Operation Safety Recommendations

Occupational Safety Guidelines And Safety Training Information

To ensure bodily exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use. Always adhere to the following basic guidelines:

- The push-to-talk button should only be depressed when intending to send a voice message.
- The radio should only be used for necessary work-related communications.
- The radio should only be used by authorized and trained personnel. It should never be operated by children.
- Do not attempt any unauthorized modification to the radio. Changes or modifications to the radio may cause harmful interference and/or cause it to exceed FCC RF exposure limits.
 Only qualified personnel should service the radio.
- Always use only authorized accessories (antennas, control heads, speakers/mics, etc.). Use
 of unauthorized accessories can cause the FCC RF exposure compliance requirements to
 be exceeded.

The information listed above provides the user with information needed to make him or her aware of a RF exposure, and what to do to assure that this radio operates within the FCC exposure limits of this radio.

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

This device complies with part 15 of the FCC rules and industry Canada license-exempt RSS standard(s). 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.

RF radiation safety warnings and the following:

	Safe Distance, R _{safe} , (cm)
Antenna	FCC Part 2.1091
	Controlled RF Exposure
TQC-400BII (3.5dBi)	60