Preface

Thank you for purchasing Hytera Digital Mobile Radio. As a product built to the standard, it is endowed with ergonomic design, all-round digital functions and remarkable quality to increase your management efficiency and enable you to be responsive to emergent situations.

To derive optimum performance from your product, please read this manual and the supplied Safety Information Booklet carefully before use.

The manual is applicable to the following model:

MD78X
MD78XG
Instructional Icons

The following icons are available through this manual:

Alert Icons

Caution: indicates situations that could cause damage to your product.

Note: indicates tips that can help you make better use of your product.

Function Icons

: indicates functions that are available on digital channel only.

: indicates functions that are available on analog channel only.

Functions marked with no function icons are available on both analog and digital channels.

Term Explanation

Key Operation

Short press: to press a key and release it quickly.

Long press: to press a key and remain holding it down for a predefined period (2 seconds by default).

Hold down: to press a key and remain holding it down.

Private Call

Private Call is a call initiated by a single user to another user.

Group Call

Group Call is a call initiated by a single user to a group.

All Call

All Call is a call initiated by a single user to all the other users on a channel.

Squelch

This technology can remove excessive background noises, improving your communication quality.

PTT ID

PTT ID, namely radio identity, allows a radio with display or the control center to identify the calling party.

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The AMBE+2™ voice coding technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc.

This voice coding technology is licensed solely for use within this product. The user of this technology is explicitly prohibited from attempting to decompile, reverse engineer, or disassemble the Object Code or in any other way convert the Object Code into a human readable form.

U.S. Patent Nos. #6,912,495 B2, #6,199,037 B1, #5,870,405, #5,826,222, #5,754,974, #5,701,390, #5,715,365, #5,649,050, #5,630,011, #5,581,656, #5,517,511, #5,491,772, #5,247,579, #5,226,084 and #5,195,166.

Disclaimer

Hytera endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy or reliability is given. All the specifications and designs are subject to change without prior notice due to continuous technology development. No part of this manual may be copied, modified, translated, or distributed in any manner without the express written permission of Hytera.

If you have any suggestions or would like to learn more details, please visit our website at: http://www.hytera.com.

RF Radiation Information

RF Radiation Profile

Radio Frequency (RF) is a frequency of electromagnetic radiation in the range at which radio signals are transmitted. RF technology is widely used in communication, medicine, food processing and other fields. It may generate radiation during use.

RF Radiation Safety

In order to ensure user health, experts from relevant industries including science, engineering, medicine and health work with international organizations to develop standards for safe exposure to RF radiation. These standards consist of:

- 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;

FCC Regulations

Federal Communication Commission (FCC) requires that all radio communication products should meet the requirements set forth in the above standards before they can be marketed in the U.S, and the manufacturer shall post a RF label on the product to inform users of operational instructions, so as to enhance their occupational health against exposure to RF energy.
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:

1. Gain of antenna must not exceed 5dBi (UHF) and 3.5 dBi (VHF).
2. Antenna Installation: install the mobile antenna at least 1 meter away from your body, in accordance with the requirements of the antenna manufacturer/supplier.

EU Regulatory Conformance

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC. Please note that the above information is applicable to EU countries only.

EU 0678 ⚠️
Checking Items in the Package

Please unpack carefully and check that all items listed below are received. If any item is missing or damaged, please contact your dealer.

1. Radio Unit
2. Palm Microphone
3. Microphone Hanger and Screws
4. Power Cord
5. Fuse
6. Mounting Bracket Kit
7. GPS Antenna

Note: To realize functions enabled by inputting, please purchase a palm microphone with keypad. Go to Optional Accessories for more details.
### Product Overview

#### Front Panel

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Name</th>
<th>No.</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Volume Control / Channel Selector Knob</td>
<td>2</td>
<td>LED Indicator</td>
</tr>
<tr>
<td>3</td>
<td>LCD Display</td>
<td>4</td>
<td>OK/Menu Key</td>
</tr>
<tr>
<td>5</td>
<td>Back Key</td>
<td>6</td>
<td>Power On/Off Key</td>
</tr>
<tr>
<td>7</td>
<td>Up Key</td>
<td>8</td>
<td>Down Key</td>
</tr>
<tr>
<td>9</td>
<td>Speaker</td>
<td>10</td>
<td>Programmable Keys</td>
</tr>
<tr>
<td>11</td>
<td>Microphone Jack</td>
<td>12</td>
<td>Microphone Installation Index</td>
</tr>
</tbody>
</table>

#### Rear Panel

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RF Antenna Connector</td>
</tr>
<tr>
<td>2</td>
<td>Power Inlet</td>
</tr>
<tr>
<td>3</td>
<td>Accessory Jack</td>
</tr>
<tr>
<td>4</td>
<td>GPS Antenna Connector</td>
</tr>
</tbody>
</table>

**Note:** The GPS Antenna Connector is only available for MD78XG.
### Programmable Keys

For enhanced convenience, you may request your dealer to program the keys **P1, P2, P3, P4, 📢, 🔴, and 🔼** as shortcuts to the functions listed below:

<table>
<thead>
<tr>
<th>No.</th>
<th>Shortcut Keys</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Zone Up</td>
<td>To select a desired zone quickly</td>
</tr>
<tr>
<td>2</td>
<td>Zone Down</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Contact List</td>
<td>To access the menu “Contact List” quickly</td>
</tr>
<tr>
<td>4</td>
<td>Message 📩</td>
<td>To access the menu “Message” quickly</td>
</tr>
<tr>
<td>5</td>
<td>Call Log 📊</td>
<td>To access the menu “Call Logs” quickly</td>
</tr>
<tr>
<td>6</td>
<td>Adjust Power Level</td>
<td>To adjust power level quickly</td>
</tr>
<tr>
<td>7</td>
<td>Public Address</td>
<td>To make public address via the external speaker quickly</td>
</tr>
<tr>
<td>8</td>
<td>Talk Around</td>
<td>To directly communicate with other radios</td>
</tr>
<tr>
<td>9</td>
<td>Monitor 🔥</td>
<td>To adjust the condition for incoming signal match</td>
</tr>
<tr>
<td>10</td>
<td>Monitor Momentary</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Squelch Off</td>
<td>To always unmute speaker no matter whether carrier is present or not</td>
</tr>
<tr>
<td>12</td>
<td>Squelch Off Momentary</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Home Screen</td>
<td>To quickly return to the previous menu or home screen</td>
</tr>
<tr>
<td>14</td>
<td>Scan</td>
<td>To receive signals on other channels</td>
</tr>
<tr>
<td>15</td>
<td>Nuisance Temporary Delete</td>
<td>To temporarily ignore unwanted channel activity</td>
</tr>
<tr>
<td>16</td>
<td>Emergency</td>
<td>To summon help in emergent situations</td>
</tr>
<tr>
<td>17</td>
<td>Adjust Squelch Level 🔴</td>
<td>To temporarily adjust the squelch threshold required for the radio to unmute</td>
</tr>
<tr>
<td>18</td>
<td>Scrambler 📩/Encrypt</td>
<td>Scrambler: To encrypt your voice so as to guarantee privacy of your communication Encrypt: To encrypt your voice and message so as to guarantee privacy of your communication</td>
</tr>
<tr>
<td>19</td>
<td>Lone Worker</td>
<td>To protect the operators from accidents</td>
</tr>
<tr>
<td>20</td>
<td>Smart Call 1-5</td>
<td>To send voice-free signaling (dedicated for 5-Tone)</td>
</tr>
<tr>
<td>21</td>
<td>Status 📊</td>
<td>To access the menu “Status List” quickly (dedicated for 5-Tone)</td>
</tr>
</tbody>
</table>

**Note:**

1. Long and short press of a key can be assigned with different functions by your dealer.
2. 📩 is programmed as the **Emergency** key by default, and is programmable by your dealer.
Installation

Before you install the radio in a vehicle, be sure to read the following instructions carefully:

Instructions

- The radio operates with cathode-grounded power supply of 13.6V ± 15% only. Please check polarity and voltage of the power supply on the vehicle before you install the radio.
- Please check how long the screws will extend from the bottom surface of the radio, before you install the radio. Drill the mounting hole cautiously to avoid damage to the vehicle wiring and other parts.
- Please connect Hytera supplied antenna and power cord to the radio, before you install it in the bracket. And make sure the antenna and power cord is dedicated for Hytera digital radios.
- Install the radio with Hytera supplied mounting bracket, to avoid radio looseness in case of accidents. The loose radio may cause bodily injury.
- Install the radio in a location where it’s easy to reach the front panel controls.
- Please make sure there’s sufficient space at back of the radio for wiring.
- When the fuse for DC power cord needs replacement, it must be replaced by a fuse with the same specification.

Installation Tools

- Electric drill
- Cross head screwdriver
- Hex socket sleeve (used for 4.8*20mm self-tapping screws)

Installation Steps

1. Install the bracket in a location where it’s easy to operate the radio.
2. Connect accessories such as antenna and power cord to the radio.
3. Slide the radio into the mounting bracket and secure it using the locking knobs.
4. Install the microphone hanger in a location where it can be reached easily.
5. Plug the palm microphone into the microphone jack on the front panel (but at first align the triangle index on the palm microphone with the microphone installation index), and place it on the hanger when you do not use it.
### Installation

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Name</th>
<th>No.</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Radio Unit</td>
<td>2</td>
<td>Locking Knobs</td>
</tr>
<tr>
<td>3</td>
<td>Mounting Bracket</td>
<td>4</td>
<td>4.8×20mm Self-tapping Screws</td>
</tr>
<tr>
<td>5</td>
<td>Palm Microphone</td>
<td>6</td>
<td>4 × 16mm Self-tapping Screws</td>
</tr>
<tr>
<td>7</td>
<td>Microphone Hanger</td>
<td>8</td>
<td>Power Inlet</td>
</tr>
<tr>
<td>9</td>
<td>Black Power Cord</td>
<td>10</td>
<td>Red Power Cord</td>
</tr>
<tr>
<td>11</td>
<td>Fuse</td>
<td>12</td>
<td>RF Antenna Connector</td>
</tr>
<tr>
<td>13</td>
<td>GPS Antenna</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Status Indication

### LCD Icon

#### Status Icon

<table>
<thead>
<tr>
<th>Icon Name</th>
<th>Icon</th>
<th>Radio Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSSI</td>
<td>![RSSI Icon]</td>
<td>No signal</td>
</tr>
<tr>
<td></td>
<td>![RSSI Icon]</td>
<td>More bars indicate better signal strength</td>
</tr>
<tr>
<td>Message Icon</td>
<td>![Message Icon]</td>
<td>New message/unread message</td>
</tr>
<tr>
<td></td>
<td>![Message Icon]</td>
<td>InBox is full</td>
</tr>
<tr>
<td>Scan Icon</td>
<td>![Scan Icon]</td>
<td>Scanning is in progress</td>
</tr>
<tr>
<td></td>
<td>![Scan Icon]</td>
<td>Scanning pauses on a non-priority channel</td>
</tr>
<tr>
<td></td>
<td>![Scan Icon]</td>
<td>Scanning pauses on Priority Channel 1</td>
</tr>
<tr>
<td></td>
<td>![Scan Icon]</td>
<td>Scanning pauses on Priority Channel 2</td>
</tr>
<tr>
<td>TX Power Icon</td>
<td>![TX Power Icon]</td>
<td>Low TX power for the current channel</td>
</tr>
<tr>
<td></td>
<td>![TX Power Icon]</td>
<td>High TX power for the current channel</td>
</tr>
<tr>
<td>Monitor Icon</td>
<td>![Monitor Icon]</td>
<td>The Monitor feature is active</td>
</tr>
<tr>
<td>Speaker Icon</td>
<td>![Speaker Icon]</td>
<td>The speaker is unmuted</td>
</tr>
</tbody>
</table>

#### Emergency Icon

- ![Emergency Icon] | The Emergency mode (other than secret emergency) is active or an emergency message is received

#### Knob Operation Mode Icon

- ![Knob Operation Mode Icon] | The knob currently operates in channel selection mode

#### GPS Icon

- ![GPS Icon] | The GPS feature is active, and valid GPS data is received
- ![GPS Icon] | The GPS feature is active, but no valid GPS data is received

#### Scrambler/Encrypt Icon

- ![Scrambler/Encrypt Icon] | The Scrambler/Encrypt feature is active

**Note:** The description related to the GPS feature in this manual is applicable to MD78XG only.
Status Indication

Operation Mode Icon

<table>
<thead>
<tr>
<th>Icon Name</th>
<th>Icon</th>
<th>Operation Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM</td>
<td></td>
<td>Direct Mode: Under this mode, radios communicate with each other directly</td>
</tr>
<tr>
<td>RM</td>
<td></td>
<td>Repeater Mode: Under this mode, radios communicate with each other via a repeater</td>
</tr>
</tbody>
</table>

LED Indicator

The LED indicator will help you easily identify the current radio status.

<table>
<thead>
<tr>
<th>LED Indicator</th>
<th>Radio Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED flashes green.</td>
<td>Powering on</td>
</tr>
<tr>
<td>LED glows red.</td>
<td>Transmitting</td>
</tr>
<tr>
<td>LED glows green.</td>
<td>Receiving</td>
</tr>
<tr>
<td>LED glows green slowly.</td>
<td>Scanning</td>
</tr>
<tr>
<td>LED flashes green slowly.</td>
<td>Scanning</td>
</tr>
<tr>
<td>LED flashes orange rapidly.</td>
<td>Emergency</td>
</tr>
<tr>
<td>LED glows orange.</td>
<td>Call ended (within the preset time period)</td>
</tr>
</tbody>
</table>
Basic Operations

Turning the Radio On/Off
To turn the radio on, long press the Power On/Off key until the radio shows power-up screen and sounds power-up alert, and the LED flashes green. To turn the radio off, press the Power On/Off key.

Adjusting the Volume
When the Volume Control / Channel Selector knob operates in volume adjustment mode (the radio displays the icon 🎧), rotate the knob clockwise to increase the call volume, or counter-clockwise to decrease it.

Selecting a Zone
A zone is a group of channels exhibiting the same property, and is programmed by your dealer. The radio supports up to 64 zones, each with a maximum of 16 channels. You may select a zone through any of the following methods:

1. Through menu selection
   Go to the menu “Zone”, and use the Up/Down key to select your desired zone.

2. Through the function keys
   You may quickly toggle to your desired zone by pressing the programmed Zone Up or Zone Down key.

Note: You dealer may designate the power-up zone and channel. If not, the radio will enter the zone and channel last used.

Selecting a Channel
Press the Volume Control / Channel Selector knob to switch it to channel selection mode (the radio displays the icon 🎫), and then rotate the knob to select your desired channel. Alias of the current channel will appear in the home screen.

Note: The knob is in volume adjustment mode by default, and will return to this mode in 5 seconds after you select a channel.

Switching the Channel Mode
Each channel can be programmed as either analog channel or digital channel. If the current zone includes both analog and digital channels, you may quickly switch between digital and analog channels through the Volume Control / Channel Selector knob.
Call

To ensure optimal volume of the receiving radio, hold the palm microphone approximately 2.5 to 5 centimeters away from your mouth.

Private Call 📞

Transmitting a Private Call
You may transmit a Private Call through any of the following methods. When transmitting a Private Call, the icon 📞 will appear.
- Transmitting a call to the preset contact
  In the home screen, hold down the PTT key on the palm microphone to transmit a Private Call to the Private Call contact preset for the current channel.

Note: Your dealer may preset a contact for each digital channel. The preset contact could be a Private Call contact, a Group Call contact or an All Call contact.

- Transmitting a call through Contact List or Call Logs
  1. Go to “Contact -> Contact List”, or go to “Call Logs” and access the Outgoing/Incoming/Missed list.
  2. Use the Up/Down key to select the Private Call contact you want to call.
  3. Hold down the PTT key to transmit the Private Call.
- Transmitting a call through Manual Dial
  1. Go to “Contact -> Manual Dial”.
  2. Input a Private Call number you want to call using the microphone with a keypad.
  3. Hold down the PTT key to transmit the Private Call.

Receiving and Responding to a Private Call
When a Private Call is received, your radio will display the icon 📞.

You may hold down the PTT key within the preset time period to call back. If you do not respond to a received Private Call, your radio will display the missed call icon ⌘.

Group Call 📞

Transmitting a Group Call
You may transmit a Group Call through any of the following methods. When transmitting a Group Call, the icon 📞 will appear.
- Transmitting a call to the preset contact
  In the home screen, hold down the PTT key to transmit a Group Call to the Group Call contact preset for the current channel.
- Transmitting a call through Contact List
  1. Go to “Contact -> Contact List”.
  2. Use the Up/Down key to select the Group Call contact you want to call.
  3. Hold down the PTT key to transmit the Group Call.
Call

Receiving and Responding to a Group Call
When a Group Call is received, your radio will display the icon 📞.

You may hold down the PTT key within the preset time period to call back.

All Call 🛡

Transmitting an All Call
Methods are the same as those in Transmitting a Group Call.

When transmitting an All Call, the icon 📞 will appear.

Note: You can transmit an All Call only when it is enabled by your dealer.

Receiving an All Call
When an All Call is received, your radio will display the icon 📞.

Note: You cannot respond to an All Call.

Calls on Analog Channels 📞
To transmit on an analog channel, hold down the PTT key and speak into the microphone. To receive, release the PTT key.
Menu Navigation

This radio supports menu reset function, that is, if you do not operate the menu for a predefined time period, the radio will automatically return to the home screen.

Contact

To access this item, press the Menu key in the home screen and then select “Contact”.

Contact List

You can save up to 200 entries in the list. To access this item, select “Contact -> Contact List” or press the shortcut key for Contact List.

Ctrl Services

You can send to a Private Call contact the following commands: alert call, radio check, remote monitor, radio enable or radio disable. See the “Manual Dial” below for details.

Editing a Contact

You can edit the number and alias of each Private Call contact.

Viewing a Contact

You can view details of each contact.

Deleting a Contact

You can delete a Private Call contact. However, please note that you can not delete the contact when there is only one entry left in the list. In addition, the Private Call contact preset on the currently used channel cannot be deleted.

New Contact

You can add a Private Call contact to the contact list. The number and alias of each contact must be unique, and the available number range is 1-16776415.

Manual Dial

You can manually input the Private Call number for calling (not available for 5-Tone signalling) and operation below:

Alert Call

You can send an alert call to a Private Call contact. The called party will see the alert and call you back.

Rad Check

You can send a Radio Check command, bringing no disturbance,
to a Private Call contact and confirm whether it is powered on or running on your current channel.

**R. Monitor**

You can enable the microphone of a remote Private Call contact, and monitor its activities or background voices.

**Rad Enable**

You can enable the radio of a Private Call contact and allow it into normal use.

**Rad Disable**

You can disable the radio of a Private Call contact and stop it from normal use.

**Message**

To access this item, press the **Menu** key in the home screen and then select “Message”, or press the shortcut key for Message directly.

**Quick Text**

Under this option there are some text messages (10 entries at most) preset by your dealer. You can choose to edit and send any entry.

**InBox**

The InBox can save up to 20 received messages. When the InBox is full, the icon 📩 will appear, and the earliest message will be overwritten by the latest one automatically.

For each message, you can choose to perform any of these operations: Reply, Forward, View Details and Delete.

To delete all messages in the InBox, select “Message -> InBox -> Delete All”.

**OutBox**

The OutBox can save up to 20 sent messages. When the OutBox is full, the earliest message will be overwritten by the latest one automatically.

For each message, you can choose to perform any of these operations: Resend, Forward, View Details and Delete.

To delete all messages in the OutBox, select “Message -> OutBox -> Delete All”.

**Drafts**

The Drafts can save up to 20 draft messages. When the Drafts is full, the earliest message will be overwritten by the latest one automatically.
For each message, you can choose to perform any of these operations: Send, Save and Delete.

To delete all messages in the Drafts, select “Message -> Drafts -> Delete All”.

**Call Logs**

To access this item, press the Menu key in the home screen and then select “Call Logs”, or press the shortcut key for Call Logs directly.

This radio can save up to 10 private call entries in the Outgoing/Incoming/Missed list respectively. When the Outgoing/Incoming/Missed list is full, the earliest entry will be overwritten by latest one automatically.

After accessing a list and selecting an entry, you can perform any of these operations: hold down the PTT key to initiate a call; add it to Contact List; or delete it.

To delete all entries in the Outgoing/Incoming/Missed list at a time, select “Call Logs -> Outgoing/Incoming/Missed -> Delete All”.

**Scan**

To access this item, press the Menu key in the home screen and then select “Scan”.

**Scan On/Off**

The Scan feature allows you to listen to communication activities on other channels so that you can keep a close track of your team members. This option is used to enable or disable the function.

**Scan List**

You can request your dealer to create a scan list for each channel. Each list may contain 32 channels at most (either digital channel or analog channel is OK). After accessing the list, you can perform any of the following operations:

**Adding a Channel**

To include a new channel into the active scan list.

**Editing Priority Channel**

To set the selected channel as a non-priority or as a priority channel. If you are interested in activities on a channel, you can set it as a priority channel, which will be scanned more frequently than a non-priority channel.

Each scan list may contain two priority channels at most.
Menu Navigation

indicates priority channel 1, and indicates priority channel 2.

Deleting a Channel
To remove a channel from the active scan list. However, the first channel in the list can not be deleted.

Zone
To access this item, press the Menu key in the home screen and then select “Zone”.

This radio supports up to 64 zones. You can use this menu to select your desired zone.

Settings
To access this item, press the Menu key in the home screen and then select “Settings”.

Radio Set
You can optimize your radio performance by customizing related parameters according to actual needs and your preferences.

Power Level
This option allows you to set TX power level. Alternatively, you can change the power level by pressing the shortcut key for Adjust Power Level in the home screen.

There are two levels available: High (indicated by ) and Low (indicated by ). High power level enables you to communicate with farther team members.

Note: Power level should be set for each channel individually.

Squelch
This option allows you to select an appropriate squelch level. Alternatively, you can change the squelch level by pressing the shortcut key for Adjust Squelch Level in the home screen.

There are three levels available: Tight, Normal and Open. The default squelch level is “Normal”, and is often used in low noise environment.

And generally, “Tight” is used in high noise environment. It requires stronger signal for the radio to unmute. However, if the squelch level is set to Open, the speaker will keep unmuted irrespective of the decoding conditions.
Menu Navigation

**Scrambler**
To set whether to enable the Scrambler/Encrypt feature.

**Encrypt**
To set whether to enable the Encrypt feature.

**On/Off**
To set whether to enable the Encrypt feature.

**Key List**
To select your desired encrypt key. The radio supports thirty keys in all.

**New Key**
To create a new key.

**Key ID**
You can create a new key ID, which consists of numbers only, in the range of 1-255.

**Key Alias**
You can create an alias for this new key. The alias can contain sixteen characters at most, composed of Chinese characters, English letters, numbers and symbols.

**Key Value**
You can edit the key value, which can consist of numbers and letters A-F (within the predefined key length).

**Save**
You can save and add the new key to the key list.

**Language**
To set the language in which all interface information is displayed.

**Backlight**
To set the backlight parameters. There are three options available: On, Off and Timer. The timer is programmed by your dealer, with an available duration of 5-60 seconds.

**Brightness**
To set the display brightness. You can raise or lower it using the *Up/Down* key.

**LED**
To set whether to enable LED indication.

**Tone**
To set alert tones for your radio. You can set the following tones:

- **Radio Silent**: to set whether the radio will give tone indication. If Silent On is selected, all tone indication will be cancelled.
- **Talk Permit**: to set whether the radio will give tone indication for
transmission. The following options are available: Disable (no tone indication for transmission), Digital Only (tone indication for transmission on digital channels only), Analog Only (tone indication for transmission on analog channels only), and Enable (tone indication for transmission on both analog and digital channels).

**Private Ring**: to set whether the radio will give tone indication when it receives a private call.

**TextMsg Ring**: to set whether the radio will give tone indication when it receives a message.

**Keypad**: to set whether the radio will give tone indication when you are making keypad operations.

**Call End**: to set whether the radio will give tone indication when a call is completed.

**Private Ring**: to set whether the radio will give tone indication when it receives a private call.

**Lone Worker**
To set whether to enable the Lone Worker feature.

**Device Info**
With this option, you can view basic information of your radio, including serial number, radio model, frequency range and firmware version, etc.

**Accessories**

To access this item, press the **Menu** key in the home screen and then select “Accessories”.

**GPS**

**Position**
With this option, you can view longitude, latitude, time, date, speed, altitude and SA (satellite) information of your radio.

**GPS Text Msg**
If the GPS feature is enabled via the programming software, you can send the GPS text message to your desired contact.

**Operation:**
1. Select “GPS Msg”, and press the **OK** key to access the menu “Contact List”.
2. Use the **Up/Down** key to select a desired contact.
3. Press the **OK** key to send the GPS message to the selected contact.

**Time Zone**
You can choose your time zone to correct the received GPS time. We recommend you to set the time zone before your initial use of this feature.
Functions and Operations

Home Screen

The feature allows you to quickly return to the previous menu or the home screen.

Operation:
In the editing screen, press the programmed Home Screen key, and the radio exits the screen and returns to the previous menu immediately; in other screens, press the key, and the radio returns to the home screen immediately.

Scan

This feature allows you to listen to communication activities on other channels so that you can keep a close track of your team members.

Operation:
1. To enable the feature, you can select “On” from the menu “Scan”; or
   Press the programmed Scan key in the home screen; or
   Switch to a channel on which the feature “Auto Scan” is enabled via the programming software.
2. After the feature is enabled, your radio will scan according to the scan list set for the channel on which scanning starts. The scanning process is as follows:
   - During scanning, the LCD displays the icon ⭧, and the LED flashes orange slowly.
   - When activities are detected on a channel, the radio will stay on the channel to receive current activities. If your radio stays on a non-priority channel, the LCD will display icon ⭧; if on Priority Channel 1 or Priority Channel 2, the LCD will display icon ⭫ or icon ⭬ respectively.
   - If you don’t want to hear activities on the channel, press the programmed Nuisance Temporary Delete key to remove the channel from the scan list temporarily.
   - If you want to continue staying on the channel, press the programmed Monitor or Squelch Off key during scan stay.
3. To exit the scanning process, you can select “Off” from the menu “Scan”, or press the programmed Scan key again.

Public Address

This feature allows public address via the external speaker. After the feature is enabled, your voice will not be transmitted, but output via the external speaker (connected to the accessory jack on the rear panel) if you hold down the PTT key and speak.

Operation:
1. Press the programmed Public Address key to enable the feature.
2. Hold down the PTT key and speak into the microphone. Then your voice will be broadcasted clearly via the external speaker.
3. To disable the feature, press the Public Address key again.
Note: When this feature is enabled, you can neither communicate with other users, nor enter the menu.

Talk Around
You can continue to communicate in DM mode by pressing the programmed Talk Around key, when your repeater malfunctions, or when your radio is out of the repeater’s range but within talking range of other radios.

Operation:
Press the programmed Talk Around key to switch between DM mode and RM mode.

Monitor 📡
To adjust match conditions for signal receiving, you can enable the feature “Monitor”.

Operation:
- Press the programmed Monitor key to enable the feature, and the radio displays icon 📡. To disable the feature, press this key again.
- Hold down the programmed Monitor Momentary key to enable the feature, and the radio displays the icon 📡. To disable the feature, release this key.

Squelch Off 🌼
If the feature “Squelch Off” is enabled, the speaker will keep unmuted no matter whether carrier is present.

Operation:
- Press the programmed Squelch Off key to enable the feature. Then the radio displays the icon 🌼 and sounds background noise. To disable the feature, press this key again.
- Hold down the programmed Squelch Off Momentary key to enable the feature. Then the radio displays the icon 🌼 and sounds background noise. To disable the feature, release this key.

Emergency
In case of an emergency, you can use the feature to ask for help from your companion or control center. The Emergency process has the highest priority. You can make emergency operation even when your radio is transmitting or receiving.

To enable the feature on a channel, an emergency system must be assigned to the channel via the programming software. In addition, the Emergency type, Emergency ID type and Emergency mode are settable via the programming software.

Emergency Type
For each Emergency mode, there are four Emergency types available. You can select one of them via your dealer:
Functions and Operations

<table>
<thead>
<tr>
<th>Emergency Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Siren Only</td>
<td>In Emergency mode, the radio will sound shrill alarm tone and display icon.</td>
</tr>
<tr>
<td>Regular</td>
<td>In Emergency mode, the radio will give audible and visible indication.</td>
</tr>
<tr>
<td>Silent</td>
<td>In Emergency mode, the radio won't give any audible or visible indication.</td>
</tr>
<tr>
<td>Silent with Voice</td>
<td>In Emergency mode, the radio won’t give any audible or visible indication,</td>
</tr>
<tr>
<td></td>
<td>but will receive voice ACK from the companion or control center automatically.</td>
</tr>
</tbody>
</table>

Emergency ID Type 🔄
Your radio supports two Emergency ID types. You can select one of them via your dealer:

<table>
<thead>
<tr>
<th>Emergency ID Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>No signaling is used when the radio sends alarm information.</td>
</tr>
<tr>
<td>HDC1200</td>
<td>HDC1200 signaling is used when the radio sends alarm information.</td>
</tr>
</tbody>
</table>

Emergency Mode
Your radio supports three Emergency modes. You can select one of them via your dealer (Note: For the following operation methods, we take the “Regular” type as an example).

<table>
<thead>
<tr>
<th>Emergency Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm</td>
<td>In this mode, you can send alarm information to your companion or control center by pressing the programmed Emergency key, but you cannot talk with them.</td>
</tr>
<tr>
<td>Alarm with Call</td>
<td>In this mode, you can send alarm information by pressing the programmed Emergency key. When the icon 📞 (analog channel) or 📞 (digital channel) appears, you can speak into the microphone, allowing your voice and background noise to be transmitted automatically (you do not need to hold down the PTT key).</td>
</tr>
<tr>
<td>Call Only</td>
<td>In this mode, press the programmed Emergency key to go to the Revert Channel. When the icon 📞 (digital channel) or 📞 (analog channel) appears, you can speak into the microphone, allowing your voice and background noise to be transmitted automatically (you do not need to hold down the PTT key).</td>
</tr>
</tbody>
</table>

Operation Methods for Analog Emergency 📞
Functions and Operations

Alarm (None & HDC1200)
Operation: Press the programmed Emergency key to send alarm information. The radio displays the icon and text information “Sending Alarm”, with red LED glowing. (None: If “Local Emergency Alarm” is enabled via the programming software, an alarm tone will sound.)

Two methods are available for you to exit the Emergency mode:
1. Once the emergency cycles expire, the radio will exit the Emergency mode automatically.
2. Long press the programmed Emergency key.
3. Hold down the PTT key. The radio will transmit on the channel on which the radio operates before entering the Emergency mode. (HDC1200)

Alarm with Call (None & HDC1200)
Operation:
1. Press the programmed Emergency key to send alarm information. The radio displays the icon and text information “Sending Alarm”, with red LED glowing. (None: If “Local Emergency Alarm” is enabled via the programming software, an alarm tone will sound.)
2. When the icon appears, you can speak into the microphone to make an emergency call.
3. When the icon appears, you can receive. And when a call is received, the icon appears.
4. If the preset Voice Cycles expire, you can hold down the PTT key to make the emergency call again (the radio displays the icon, with red LED glowing). After the emergency call is transmitted, release the PTT key to receive (the radio displays icon , with LED flashing orange rapidly). And when a call is received, the icon appears. (HDC1200 only)

Two methods are available for you to exit the Emergency mode:
1. After the preset Alarm Cycles and Voice Cycles expire, the radio will exit the Emergency mode automatically. (None)
2. Long press the programmed Emergency key.

Call Only (HDC1200)
Operation:
1. Press the programmed Emergency key to go to the Revert Channel, and the radio displays the icon .
2. If the feature “Alarm with Call to Follow” is enabled, you can speak into the microphone to make an emergency call when the radio displays the icon .
3. When the icon appears, you can receive. And when a call is received, the icon appears.
4. If the preset Voice Cycles expire, you can hold down the PTT key to make the emergency call again (the radio displays
Functions and Operations

the icon (📞, with red LED glowing). After the emergency call is transmitted, release the PTT key to receive (the radio displays the icon (📞, with LED flashing orange rapidly). And when a call is received, the icon (📞) appears.

To exit the Emergency mode, long press the programmed Emergency key.

Note: Your dealer may set the number of alarm cycles and alarm duration (None), number of polite retries and impolite retries (HDC1200), number of voice cycles, duration of each transmission and TX interval.

Operation Method for Digital Emergency Alarm
Operation: Press the programmed Emergency key to send alarm information. The radio displays icon (📞) and text information “Sending Alarm”, with red LED glowing.

Two methods are available for you to exit the Emergency mode:
1. Once the emergency cycles expire, the radio will exit the Emergency mode automatically.
2. Long press the programmed Emergency key.

Alarm with Call

Operation:
1. Press the programmed Emergency key to send alarm information. The radio displays icon (📞) and text information “Sending Alarm”, with red LED glowing.
2. When the icon (📞) appears, you can speak into the microphone to make an emergency call.
3. When the icon (📞) appears, you can receive. And when a call is received, the icon (📞) appears.
4. If the preset Voice Cycles expire, you can hold down the PTT key to make the emergency call again (the radio displays the icon (📞) with red LED glowing). After the emergency call is transmitted, release the PTT key to receive (the radio displays icon (📞), with LED flashing orange rapidly). And when a call is received, the icon (📞) appears.

To exit the Emergency mode, long press the programmed Emergency key.

Call Only
Operation:
1. Press the programmed Emergency key to go to the Revert Channel, and the radio displays the icon (📞).
2. If the feature “Alarm with Call to Follow” is enabled, you can speak into the microphone to make an emergency call when the radio displays the icon 📞. 

3. When the icon 📞 appears, you can receive. And when a call is received, the icon 📞 appears.

4. If the preset Voice Cycles expire, you can hold down the PTT key to make the emergency call again (the radio displays the icon 📞, with red LED glowing). After the emergency call is transmitted, release the PTT key to receive (the radio displays icon 📞, with LED flashing orange rapidly). And when a call is received, the icon 📞 appears.

To exit the Emergency mode, long press the programmed Emergency key.

Note: Your dealer may set the number of polite retries and impolite retries number of voice cycles, duration of each transmission and TX interval.

Ignition Sense
The following options are available via the vehicle ignition. You may ask your dealer to assign any one to your radio.

- **PTT Disable**: The PTT key is enabled or disabled by following the ignition sense.
  
  **Operation:**

  To enable the PTT key, start the engine; to disable the PTT key, stop the engine.

  - **Ignition or Switch**: The radio powers on or off by following either the ignition sense or the Power On/Off key.
    
    **Operation:**
    
    To power on the radio, start the engine or long press the Power On/Off key; to power it off, stop the engine or press the Power On/Off key.

  - **Ignition Only**: The radio powers on or off by following the ignition sense only. The Power On/Off key does not work.
    
    **Operation:**
    
    To turn on the radio, start the engine; to turn it off, stop the engine (The Power On/Off key does not work).

  - **Disable Ignition Off**: The radio powers on by following the ignition sense, but it powers off only through Power On/Off key.
    
    **Operation:**
    
    To turn on the radio, start the engine or long press the Power On/Off key; to turn it off, press the Power On/Off key.

Scrambler 🎤 /Encrypt 🎤
The Scrambler/Encrypt feature can encrypt your audio signals to prevent eavesdropping. Thus privacy of your communication is guaranteed.

This Encrypt feature can encrypt your audio signals and messages to prevent eavesdropping. Thus privacy of your communication is guaranteed.

**Operation:**
Functions and Operations

- On an analog channel, go to “Main Menu -> Settings -> Radio Set -> Scrambler” and select “Enable” or “Disable”; on a digital channel, go to “Main Menu -> Settings -> Radio Set -> Encrypt” and select “Enable” or “Disable.

- Press the programmed Scrambler/Encrypt key to enable Scrambler or Encrypt on the current channel (a high-pitched tone sounds); press the key again to disable the feature (a low-pitched tone sounds).

- If the Scrambler/Encrypt feature is enabled for a channel via the programming software, switch to the channel to enable the feature, or exit the channel to disable the feature.

Busy Channel Lockout

If enabled via the programming software, this feature can prevent your radio interfering with other transmitting terminals on the same channel. If you hold down the PTT key while the channel is in use, your radio will keep beeping and display text information “Channel Busy!”, alerting you to transmission prohibition. To stop beeping, please release the PTT key. When the channel is free, you can press and hold down the PTT key to transmit.

Time-out Timer (TOT)

The purpose of TOT is to prevent any user from occupying a channel for an extended period. If the preset time expires, the radio will automatically terminate transmission and keep beeping. To stop beeping, please release the PTT key. You must wait for a certain time period (preset by your dealer) to initiate another transmission.

If the pre-alert function is set by your dealer, your radio will alert you to the TOT expiration in advance.

Note: This feature is null in Emergency mode.

Pseudo Trunking

If your radio operates on a channel with this feature enabled and one time slot is already occupied, it can transmit and receive on the other free time slot, allowing you to communicate timely under emergent situations.

MIC AGC

If enabled via the programming software, your radio will process the audio signals during transmission, providing improved audio for the receiving radio.

Emergency Footswitch

This feature must be realized through further development. After successfully developed, you should request your dealer to enable it via programming software. This feature is quite useful in emergent situations to avoid any unexpected loss.

Note: Emergency footswitch will be unavailable if the Emergency feature is not enabled on the current channel.
Channel Steering

This feature must be realized through further development. After successfully developed, you should request your dealer to enable it via programming software. You can switch channels accurately and quickly with this feature.

Note: If this feature is enabled, you cannot switch channels via front panel operation.

Radio Registration Service

If enabled via the programming software, your radio will automatically register in the system within a certain period after power-on. Then it can acquire online information of other radios via accessing specific servers within the valid registration period.

GPS Revert

If enabled via the programming software, your registered radio will transfer its positioning information to the system when the system requires such information.

Lone Worker

This feature is ideal for persons who work lonely. If you encounter an incident and cannot operate your radio within the preset time period, your radio will alarm automatically to summon help from your companion.

Operation:
1. To enable the feature,

Go to “Main Menu -> Settings -> Radio Set-> Lone Worker” and select “Enable”; or Press the programmed Lone Worker key (a high-pitched tone sounds); or Turn on the radio if the feature is enabled via the programming software.

2. If you cannot operate your radio within a preset response period, your radio will give alerts before this period expires (dependent on the settings by your dealer). At this time, you can terminate such alerts by rotating a knob or pressing a key. When the response period expires, your radio will trigger the current emergency system automatically.

3. To disable the feature,

Go to “Main Menu -> Settings -> Radio Set-> Lone Worker” and select “Disable”; or Press the programmed Lone Worker key (a low-pitched tone sounds).

Note: If the Lone Worker feature is not disabled before your radio is powered off, it will remain enabled when powered on again.
Signaling Introduction

The radio supports the following signaling. You can ask your dealer to make appropriate settings on your radio. For detailed information, please contact your dealer.

**HDC1200**

The HDC1200 signaling is compatible with the MDC1200 signaling, and realizes functions such as PTT ID (Encoding & Decoding), Emergency (Encoding & Decoding) and Selective Call (Encoding & Decoding).

**Encoding:**
1. Hold down the **PTT** key during normal voice communication to send PTT ID.
2. Go to the menu “Contact List” and select a required contact. Then hold down the **PTT** key to send a selective call (Private Call/Group Call/All Call).

For encoding, the radio will provide the following indications:
- PTT ID/Selective Call: Your dealer can program whether the radio sounds side tone during encoding or sounds beeps after encoding.
- Selective Call: During encoding, the LED glows red, and the LCD displays the appropriate call icon (Private Call: ; Group Call: ; All Call: ). After encoding, the LED glows orange.

**Decoding:**
For decoding, the radio provides the following indications:
- PTT ID: After decoding, the LCD displays the icon and ID or alias of the transmitting party.
- Selective Call: After decoding, the radio provides the following indications:
  - **Alert:** The radio will sound default alert.
  - **LED:** The LED glows green.
  - **LCD:** If your dealer enables the feature “Display Decode ID”, the radio will display the appropriate call icon (Private Call: ; Group Call: ; All Call: ) and alias of the transmitting party (ID of the transmitting party will be displayed if it is not in the contact list). If your dealer does not enable the feature “Display Decode ID”, the radio will display the appropriate call icon only.

**5-Tone**

This radio can realize various types of calls through 5-Tone signaling.

**Encoding:**
1. Request your dealer to configure the correct format and type for the encoding contents.
2. When the format consists of fields for variable information, you need to fill in such fields by manual entry or menu operation; When the format consists of fixed codes only, you do not have to edit such fields or save such data.
3. Press **PTT** or the programmed **Smart Call 1 - Smart Call 5** keys to send the 5-Tone signaling.

During encoding, the radio sounds a side tone, the LED glows red, and the LCD displays the contact information (or “Five Tone Call”) and an appropriate call icon (Private Call: ).
Group Call: 📞 🔄️. If Auto Reset is enabled (by your dealer), your radio will enter the Auto Reset mode after successful encoding, with LED glowing orange, until the Auto Reset Time expires.

**Decoding:**

Your radio can automatically decode the 5-Tone signaling when receiving any matched one.

During decoding, the LED glows green. After successful decoding, the LCD displays the contact information (or “Five Tone Call”), an appropriate call icon (Private Call: 📞 🔄️), and the decoded status message. If Auto Reset is enabled (by your dealer), your radio will enter the Auto Reset mode, with LED glowing orange, until the Auto Reset Time expires.
<table>
<thead>
<tr>
<th>Phenomena</th>
<th>Analysis</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The radio can not be powered on.</td>
<td>The power cord may be unconnected.</td>
<td>Connect the power cord correctly.</td>
</tr>
<tr>
<td>During receiving signals, the voice is weak, discontinuous or totally inactive.</td>
<td>The volume may be set to a low level.</td>
<td>Increase the volume by rotating the Volume Control knob clockwise.</td>
</tr>
<tr>
<td></td>
<td>The antenna may get loose or may be improperly installed.</td>
<td>Power off the radio, re-install the antenna and power on the radio again.</td>
</tr>
<tr>
<td></td>
<td>The speaker may be blocked or damaged.</td>
<td>Clean surface of the speaker. If the problem can not be solved, contact your dealer or our authorized service center for inspection and repair.</td>
</tr>
<tr>
<td>You can not communicate with other members in Analog mode.</td>
<td>The frequency or signaling may be inconsistent with that of other members.</td>
<td>Set your TX/RX frequency and signaling to the same as that of other members.</td>
</tr>
<tr>
<td></td>
<td>You may be too far away from the group members.</td>
<td>Move towards other members. And make sure that you are within the communication range.</td>
</tr>
<tr>
<td>You can not communicate with other members in Digital mode although there is receiving indication.</td>
<td>Your ID may be inconsistent with that of other members. Consequently, the digital carrier can be received but can not be demodulated.</td>
<td>Set your ID to the same as that of other members.</td>
</tr>
<tr>
<td>Irrelevant communications or noises are heard on the analog channel.</td>
<td>You may be interrupted by radios using the same frequency.</td>
<td>Adjust the squelch level.</td>
</tr>
<tr>
<td></td>
<td>The radio may be set with no signaling.</td>
<td>Set your radio with signaling to avoid interference at the same frequency, and make sure that all members share the same signaling.</td>
</tr>
<tr>
<td>The noise is too loud.</td>
<td>You may be too far away from other members.</td>
<td>Move towards other members, and then try again.</td>
</tr>
<tr>
<td></td>
<td>You may be at an unfavorable position. For example, your communication may be blocked by high buildings or frustrated in the underground areas.</td>
<td>Move to an open and flat area, and try again.</td>
</tr>
<tr>
<td></td>
<td>You may suffer from external disturbance (such as electromagnetic interference).</td>
<td>Stay away from equipment that may cause interference.</td>
</tr>
<tr>
<td>You can not use the keys.</td>
<td>The keypad may fail to function temporarily.</td>
<td>Restart the radio.</td>
</tr>
</tbody>
</table>
### Troubleshooting

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no display.</td>
<td>The LCD may fail to function temporarily.</td>
</tr>
<tr>
<td><strong>The GPS cannot locate your position.</strong></td>
<td>The GPS antenna is improperly connected.</td>
</tr>
<tr>
<td></td>
<td>No GPS signal is received.</td>
</tr>
</tbody>
</table>

If the above solutions cannot fix your problems, or you may have some other queries, please contact us or your local dealer for more technical support.
Care and Cleaning

To guarantee optimal performance as well as a long service life of the product, please follow the tips below.

**Product Care**
- Keep the product at a place with good ventilation and heat dissipation to facilitate normal work.
- Do not place irrelevant articles on top of the product to ensure optimal heat dissipation.
- Do not place the product in corrosive agents, solutions or water.

**Product Cleaning**
- Clean up the dust and fine particles on the product parts with a clean and dry lint-free cloth or a brush regularly.
- Use a non-woven fabric with neutral cleanser to clean the keys, control knobs, LCD and jacks after long-time use. Do not use chemical preparations such as stain removers, alcohol, sprays or oil preparations. Make sure the product is completely dry before use.

**Caution:** Power off the product before cleaning.
Optional Accessories

The following items are the main optional accessories for the product, and please consult your local dealer for more information.

<table>
<thead>
<tr>
<th>Desktop Microphone SM10A1</th>
<th>External Speaker SM09D1</th>
<th>Programming Cable (USB Port) PC37</th>
<th>Data Cable PC40</th>
</tr>
</thead>
</table>

![Desktop Microphone SM10A1](image1)

![External Speaker SM09D1](image2)

![Programming Cable (USB Port) PC37](image3)

![Data Cable PC40](image4)

<table>
<thead>
<tr>
<th>Keypad Microphone SM19A1</th>
<th>External Power Supply PS22002</th>
<th>Antenna</th>
</tr>
</thead>
</table>

![Keypad Microphone SM19A1](image5)

![External Power Supply PS22002](image6)

![Antenna](image7)

**Caution:** Use the accessories specified by Hytera only. If not, Hytera shall not be liable for any losses or damages arising out of use of unauthorized accessories.
Appendix

Input Method

You can enter aliases, numbers or messages using the microphone with a keypad. The radio supports the following input methods: Chinese Pinyin (simplified), English and Number.

Chinese Pinyin (Simplified)

Operation:
1. Press \[ \#\] to switch to Chinese Pinyin mode;
2. Enter the pinyin through alphanumeric keys; then a list of possible combinations and corresponding characters will appear;
3. Use the Up/Down key to choose the right pinyin;
4. Press the OK key to highlight the characters, and choose the right character using the Up/Down key;
5. Press the OK key to enter the selected character.

You can repeat the above steps to continue.

English

Operation:
1. Press \[ \#\] to switch to uppercase English or lowercase English mode;
2. Press the key which bears your desired letter repeatedly until the letter appears.

You can repeat the above steps to continue.

Number

Operation:
1. Press \[ \#\] to switch to Number mode;
2. Enter the numbers through alphanumeric keys \[ 0\] to \[ 9\].

Special Character

To enter common punctuations and special characters, press \[ \#\] .
To input a space, press \[ *\] .

Note: You can use the Up/Down key to move the cursor leftward/rightward in the entered text.