Installation:
Read the following precautions before installing the mobile terminal:
- 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 RCA 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 RCA digital radios to prevent injuries to passengers.
- Set the mobile terminal in a location convenient on the front panel for easy operation.
- Please make sure there’s sufficient space at the 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, Philips Head Screwdriver, and Hex Socket Sleeve

Installation Diagram:

Product Overview:
1. LED Indicator
2. Volume Control / Channel Selector Knob
3. LCD Display
4. Option / Back / Home Button
5. Menu / Enter Button
6. Up Button
7. Down Button
8. Speaker
9. Emergency Call Button
11. Enter / P1 Key
12. Power Level / Lock / Unlock Button
13. Cancel / P2 Button
14. Accessories Interface
15. Power Interface
16. Positioning Module Antenna Interface
17. RF Antenna Base
18. Accessories Interface
19. Hardware Bracket Knob Underlay
20. Accessory Interface
21. Power Supply Socket
22. Hardware Bracket Knob
23. M6 Self-tapping Cross Screw
24. Handheld Microphone Hanger
25. Handheld Microphone
26. Red Power Line
27. Black Power Line
28. Fuse
Basic Operations

Turning on/off radio
Short press [Power On / Off / On-hook] button to turn on the radio, LCD displays power-up LOGO, and then enter the standby screen, and then long press [Power On/ Off/ On-hook] button to shutdown.

Knob Switch Mode
Short press the knob, to switch the two modes between volume and channel/group.

Radio Mode
The mobile terminal supports conventional and trunking mode, switching as below:
1. Press [Option/ Back/ Home] button to bring up the option menu;
2. Press [Up]/ [Down] button to select ‘Radio mode’ and press [Menu / Enter] button to enter the list of radio mode;

Note: In conventional mode the radio can communicate directly or via repeater inter-communicate; in trunking mode, the mobile terminal is connected by the base station, to realize the function of real-time dispatchment.

Adjust the volume
When the Volume Control / Channel Selector knob operates in volume adjustment mode, rotate the knob clockwise to increase the call volume, or counterclockwise to decrease volume.

Adjusting the Power Level
Press [Power Level / Lock / Unlock] button to change the transmitting power level to ‘High’/ ‘Mid’/ ‘Low’, and also the icon of the power level will be changed in the main menu.

Lock and Unlock
Long press [Power Level / Lock / Unlock] button can activate the keylock function, to stop unwanted operation. Deactivate the keylock by long.

Switching Channel / Group
When in the channel/group switching mode, turn the knob to select channel/group.

In addition you can also switch the channel/group in the menu:
1. Press [Option/ Back/ Home] button to go to the ‘Option’ menu;
2. Press [Up/ Down] button to select ‘Channel Management / Group Management’, press [Enter] to enter the channel / group folder list;
3. Press [Up]/ [Down] button to select the channel / group folder, press [Enter] to enter the channel / group list.
4. Press [Up]/ [Down] button to select the channel/ group, press [Enter] button to switch channel / group.

Note:
- ‘Channel Management’ and ‘Group Management’ are folders set up for classified management of channels and groups in conventional mode and trunking mode.
- This mobile terminal supports up to 64 channels / group folders, each folder contains up to 100 channels / groups, to be set up via the dealer.

Call

Individual Call
Initiate the Individual Call
1. Input a individual call number you would like to call using the microphone with a keypad, or enter ‘Phonebook’ / ‘Call Log’ / ‘Messages’, to select the Contact/ Messages;
2. Hold down the [PTT] button on the handheld microphone to transmit a individual call to the selected contact or message contact.

Receive and Call Back
1. When the [PTT] button is idle, without any actions of buttons, the mobile radio could receive call.
2. You can hold down [PTT] button to call back after the calling party finishes talking.

Group Call
The groups are preset by the dealer, operating method in conventional and trunking modes is the same.

Initiate Group Call
1. At standby screen, short press [Volume Control / Channel Selector] button, then rotate to select channel / group that you want to call.
2. Press [Enter] button to confirm the selected channel / group, or wait for it confirm automatically.
3. Hold down [PTT] button on handheld microphone to initiate group call.

Receive and Call Back
1. When [PTT] button is idle, without any actions of buttons, the mobile radio could receive call.
2. You can hold down [PTT] button to call back after the calling party finishes talking.

Care and Cleaning
To guarantee optimal performance as well as a long service life of your radio, please follow the tips below.

Radio Care
Keep the radio far away from substances that can corrode the electronic circuit.

Radio Cleaning
Clean up the dust and fine particles on the radio surface with a clean and dry lint-free cloth or a brush regularly.

Use neutral cleanser and a non-woven fabric to clean the keys, control knobs and microphone after long-time use. Do not use chemical preparations such as stain removers, alcohol, sprays or oil preparations, so as to avoid surface case damage. Make sure that the radio is completely dry before use.

NOTE: Turn off the radio before cleaning.

LED indicator

<table>
<thead>
<tr>
<th>LED Indication</th>
<th>Radio Status</th>
</tr>
</thead>
<tbody>
<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 &amp; Flashing Slowly</td>
<td>Standby</td>
</tr>
</tbody>
</table>

STATUS INDICATION IN RADIO

<table>
<thead>
<tr>
<th>Icon Name</th>
<th>Icon</th>
<th>Radio Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSSI</td>
<td></td>
<td>No Signal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>More bars indicate better signal strength</td>
</tr>
<tr>
<td>Message Icons</td>
<td></td>
<td>New message/unread message</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inbox is full</td>
</tr>
<tr>
<td>Working Mode Icons</td>
<td></td>
<td>Indicates in trunking mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Indicates in conventional mode</td>
</tr>
<tr>
<td>Power Level Icons</td>
<td></td>
<td>Indicates Mid-Power transmission</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Indicates High-Power transmission</td>
</tr>
<tr>
<td>Profiles Icon</td>
<td></td>
<td>Indicates the silent mode is enabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Indicates the standard mode is enabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Indicates the custom mode is enabled</td>
</tr>
<tr>
<td>Accessory Icon</td>
<td></td>
<td>Accessory is plugged in</td>
</tr>
<tr>
<td>Handheld Mic Icon</td>
<td></td>
<td>Handheld Mic is plugged in</td>
</tr>
<tr>
<td>Call Status Icon</td>
<td></td>
<td>Indicates currently talking</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Indicates missed calls</td>
</tr>
<tr>
<td>Channel / Group Selection Icon</td>
<td></td>
<td>Indicates in-channel selection mode</td>
</tr>
<tr>
<td>Encryption Icon</td>
<td></td>
<td>Encryption ON</td>
</tr>
<tr>
<td>Positioning Icon</td>
<td></td>
<td>Positioning feature is active and valid positioning data is received</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Positioning feature is active but no valid positioning data is received</td>
</tr>
</tbody>
</table>

Complete User Manual at: [RCACommunicationsSystems.com](http://www.RCACommunicationsSystems.com)