Kirisun

INSTRUCTION MANUAL

PT6808
TRUNKING MOBILE TRANSCEIVER

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TRUNKING MOBILE TRANSCEIVER

We are very grateful for your purchasing *Kirisun* brand transceivers produced by Kirisun Communications Inc.

We believe *Kirisun* transceiver, which always incorporates the latest technology, can bring great convenience to your life and work; we also believe that the quality and function of *Kirisun* transceiver can meet your demands for reliable communication.

NOTICE TO THE USER:

State laws prohibit radio communication without permission in government districts.

Illegal operation is punishable by fine and/or imprisonment.

Refer service to the well-trained professional technicians only.

SAFETY

It is important that the user is aware of and under-stands hazards common to the operation of any transceivers.

WARNING!

Turn off your transceiver prior to entering any area with a potentially explosive atmosphere (where the air contains gas, dust and smog, etc.), such as while taking on fuel, or while parking at a gasoline service station.

PRECAUTIONS IN USE

Please comply with the following attentions to avoid fire, bodily injury and damage to the transceiver.

The transceiver is recommended to transmit for 1 minute and receive for 4 minutes. Long time transmitting or continuous working in high power mode will make the rear side of the transceiver generate heat.

Please don't disassemble or assemble the transceiver under any circumstances.

Please don't expose the transceiver to direct sunlight for a long time; don't place the transceiver near any heating devices, either.

Please don't put the transceiver in extremely dusty, moist or dabbling places; don't place it on unstable surfaces, either.

If the transceiver emits smoke or strange odors, turn it off and remove the battery from the transceiver and promptly contact your local authorized KIRISUN dealer.

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■ UNPACKING AND CHECKING

Unpack the transceiver carefully. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, please contact the dealer immediately.

◆ Supplied Accessories

Accessories	Quantity
Fixed bracket	1
Power Cable	1
Hand Microphone	1
Microphone Hanger	1
M4*13 Self-tapping Screw	4
M4*16 Self-tapping Screw	2
M5*16 Self-tapping Screw	4
Spring gasket	4
Normal gasket	4
Instruction Manual	1
Warranty Card	1

Microphone Hanger	Power Cable	Fixed bracket
Hand Microphone	M4*13 Self-tapping Screw	M5*16 / M4*16 Self-tapping Screw

■ Preparation
● Connection of Power Cable
＊　First of all, please check whether there is a hole for the power cable on the insulating board. If no, please bore the board with the suitable drill bit and fix a rubber grommet on it.
＊　Afterwards, please have the cable pass through the insulating board and lead from the car into the car engine. Connect the red conductor to the positive terminal of the accumulator and the black conductor to the negative terminal.
＊　At last, ring the remained conductor and fix it.
　　Note: Please maintain the sufficient relaxation of the power cable to make it convenient to dismantle the radio in the state of power connection.

● Radio Installing
Warning: For passengers' safety, please fix the radio firmly on the fixed bracket so that the radio will not be loosened in case of collision.
＊　The fixed bracket is taken as an example. Draw the position and drill a hole on the instrument panel first, and then install the fixed bracket with 4 M5*16 self-tapping screws. (Note: please fix the radio at the position convenient for operation and control, and leave an enough space for fixation and connection of the cable.)
＊　Slide the radio into the fixed bracket and fix it with 4 M4*10 combination screws (plus plain washer and spring washer). (Different combinations of fixing holes are selectable to adjust the radio to the proper height and visual angle.)

＊　Connect the antenna and the power cable to the radio.
＊　Install the microphone hanger at the position easy to use, with 2 M4*16 self-tapping screws. (The microphone and its cable sho--uld be fixed at the position not affecting safe driving.)
＊Connect the microphone to the microphone jack on the front panel of the radio and put it on the hanger.
Note: When replacing the protective tube for the power cable, please use the one of the same specification without fail. It is not allowed to change it into the tube of higher capacity.

■ **GETTING ACQUAINTED**
● **Radio Overview**

◆ **Display**

1) Displays call addresses, the call duration timer, data messages, and the current operating status of the transceiver. (TRUNKING mode only.)
2) Displays the channel numbers and the current operating status of the transceiver. (CONVENTIONAL mode only.)
3) Status indicator symbols are explained in the table below:

ICON	DESCRIPTION
	Shows the strength of receiving signals.
SVC	Appears when a control channel is found. Flashes while the transceiver is hunting for a control channel. (TRUNKING mode only.)
MON	Appears while you are monitoring a channel by pressing the Monitor button. (CONVENTIONAL mode only.)
SCN	Appears while you are scanning. (CONVENTIONAL mode only.)
Lo	Appears when the transmitting power is in the Low mode.
P	Appears when you are in home system, and disappeared when in rovingroaming. (TRUNKING mode only.)
✉	Appears when there is new data received,including voice message, digital data message and missed calls. (TRUNKING mode only.)
⇄	Appears when you are in roaming. (TRUNKING mode only.)
🔒	Appears when keypad lock or rotary encoder lock is active.
🔒	Indicates that the encoder switch is locked.
♪	Ring alert is active when the setting is not All Mute. (TRUNKING mode only.)
🔋	Shows the current battery level, and flashes when the battery power appears low.

■ **TRUNKING MODE**
◆ **Power ON/OFF**
1) Press the red POWER button for a long time (at least 1.5 seconds) to switch on the transceiver. All characters on display flash and the power-on text message appears. The transceiver will automatically begin hunting for a control channel. While the transceiver is hunting, the" SVC" indicator flashes and Hunting displays.

◆ Before the searching,
a. Power-on music should be accompanied with the power-on message if the Mute is not set. Refer the setting and canceling of power-on message to your local dealer.
b. "PASSWORD" should be displayed before the power-on message if the password had been set by PC software. Input the password and end with "#" to confirm the password. The power-on message would show if the password is correct. Refer the setting and canceling of password to your local dealer.
c. "Killed" would be displayed after the power-on message show when the transceiver was remote killed, and the transceiver is not allowed for use. Please contact the system administrator for help.
d. "UNPROGRAM" should be displayed before the power-on text if the network parameters are not programmed. Please contact your local dealer.
2) Turn the On-Off/Volume control knob counterclockwise to switch the transceiver power off.

◆ **Viewing**
● **Viewing the Built-in Status Message**
1) If you have selected the function of "viewing the built-in status

message" by PC software, you can press "✉"key once to enter the mode of viewing the status messages.

a. "Statusxx" will be displayed on LCD.

b. The content of built-in status messages can only been programmed by PC software. Please contact your local dealer for detail information.

c. There are up to 32 status messages, and Chinese and English characters can be stored in each message.

2) Press "▲" and "▼" or rotate the Rotary Encoder to view the status messages. Press "▲" or rotate clockwise to increase the status code, and "▼" or counterclockwise to decrease it.

3) Press Clear button to exit.

● **Viewing the Received Status Message**

1) If you have selected the function of "data message stack" by PC software, while in the mode of viewing the Built-in status message, you can press "✉" key once again to enter the mode of viewing the received messages. The message type and content display in two lines.

a. Message type displaying in the first line on LCD is "RecStatus xx", in which the "xx" is the enquiry number.

b. Message content displaying in the second line consists of "Sending unit" and "Content".

c. There are two pages of content for each received status message, one is for "Sending unit" and the other is for "Content". The "Sending unit" displays the sender's ID and the "Content" displays built-in status message. Press "▤" key to switch the displayed page between "Sending unit" and "Content".

d. There are up to 30 received status messages can be stored in memory. But all messages will be lost when the transceiver is

switched off.

2) Press "▲" and "▼" or rotate the Rotary Encoder to view the received status messages.

3) Press Clear button to erase the received status message while you view it.

● **Viewing the Received Data Message**

1) If you have selected the function of "data message stack" by PC software, while in the mode of viewing the received status message, you can press "✉" key to enter the mode of viewing the received data messages. The message type and content display in two lines.

a. Message type displaying in the first line on LCD is "DataMsgxx", in which the "xx" is the enquiry number.

b. Message content displaying in the second line consists of "Sending unit" and "Content"。

c. There are two pages of content for each received data message, one is for "Sending unit" and the other is for "Content".The "Sending unit" displays the sender's ID and the "Content" displays built-in data message. Press "▤" key to switch the displayed page between "Sending unit" and "Content".

d. There are up to 5 received data messages can be stored in memory. But all messages will be lost when the transceiver is switched-off.

2) Press "▲" and "▼" or rotate the Rotary Encoder to view the received data messages.

3) Press Clear button to erase the received data message while you view it.

● **Viewing the Missed Call**

1) If you have selected the function of " missed call memory" by
    PC software, while in the mode of viewing the built-in status
    message or the received data message, you can press " ✉" key
    to enter the mode of viewing the missed calls. The call type and
    content display in two lines.

a. Call type displaying in the first line on LCD is "MissCallxx", in
   which the "xx" is the enquiry number.

b. Call content displaying in the second line is the caller's unit
    number, or caller's name preset in the address book. For the
    unidentified caller it will show "UNKOWN".

c. There are up to 10 received missed calls can be stored in memory.
    But all data will be lost when the transceiver is switched-off.

2) While viewing the content of the missed call, you can send a call
    to its caller by pressing "PTT" button.

3) Press "▲" and "▼" or rotate the Rotary Encoder to view other
    missed calls.

4) Press Clear button to erase the missed call while you view it.

● **Viewing the Parameters**

1) If you have selected the function of "enable menu" and the
   corresponding facilities by PC software, press "▤" key in stand-
   by mode, and "Lock Press ＊ key" is displayed.

a. Press "＊" key to lock the keypad .

b. Press "▲" or "▼" key to view/set parameters for each function
    listed below.

2) Before viewing the parameters, make sure you have select-ed the
    function of "function menu" by PC software.

3) If the menu is used for the first time, ID code displays on LCD
    instead of the keypad lock indicator. Press "▼" key to view the
    parameters displayed in increasing order; and press " ▲" to view

them in decreasing order.

4) The parameter codes are listed as follows:

a. Idcode -- display ID code of the transceiver.

b. ControlCH -- display the current control channel.

c. SystemCode -- display the current system code.

d. Power-- display and set the transmitting TX power in trunking
    mode.

e. BeepVolume -- display and set the beep volume.

f. RingVolume -- display and set the ring volume of the incoming
    calls.

g. MsgVolume -- display and set the alarm volume of received
   messages.

h. RingType -- display and set the ring music type of incoming
   individual calls.

i. GroupRing-- display and set the ring type of incoming group calls.

j. Silence -- display and set the ON/OFF of the mute of "Beep"
    and incoming calls.

k. Lamp -- display and set the ON/OFF of backlight on LCD.

l. Cmp Hunt -- display and set the ON/OFF of Comprehensive Hunt.

m. SelSys -- set the Manual Selection of System.

n. Set Tmp Group -- set the Temporary Input Group.

5) You can also use the following combination keys to quick view/set
    the parameters:

    a. 0+ " ▤ " key
    b. 1+ " ▤ " key
    c. 2+ " ▤ " key
    d. 3+ " ▤ " key
    e. 4+ " ▤ " key
    f. 5+ " ▤ " key
    g. 6+ " ▤ " key
    h. 7+ " ▤ " key

i.   8+ " ▤ " key
j.   9+ " ▤ " key

By PC software you can define the function of above series of combination keys as displaying/setting: ID code of the transceiver, current control channel, current system code, TX power, ON/OFF of back light on LCD, ON/OFFof Comprehensive Hunt, switch between conventional mode and trunking mode, rotary encoder lock.

6)   All settings of above facilities, except "SetTmpGroup" and "SelSys", can be adjusted only by Rotary Encoder. Press Clear button to return to standby mode while adjusting.

7) When "SelSys" displays, press "▤" to select the system manually. "SelSys xxxx xxxxxxxxxxxx" will be displayed. (The exact display lies with the setting of system.)

a.   Press "#" or PTT to select the system code manually. If the function of selecting system code manually hasn't been activated or this system code is prohibited to select manually, it will return to trunking mode when press "#" key or PTT button.

b.   Press "▤" key to return to the menu.

8) When "SetTmpGroup" displays, press "▤" key to set Temporary Group. "SetTmpgroup x xxx" will be displayed on LCD. (The exact display lies with the setting of system.)

a.   Input the group call code of the Temporary Group through the number keypad and end with "#" key. 3 temporary groups can be stored in the transceiver.

b.   Press Clear button to erase this group call code and then "Null" displays on LCD. Press "#" key to confirm.

c.   Press "▲" or "▼" key or rotate the Rotary Encoder to view the other 2 groups.

d.   Press "▤" key to return to trunking mode.

● **Viewing the Built-In Contact List**

1) The built-in contact address can only be edited by PC software. The setting categories are: group/individual call, hide group, dialing number.

2) You can set 180 group/individual calls, 50 hide groups, and 20 groups of dialing numbers.

3)   Rotate the Rotary Encoder to view the contacts in standby mode.

4) The ASCII name of a contact can also be displayed if it has been set.

◆ **Radio Calls**

● **Making a Voice Call (through Keypad Mainly)**

1) Make sure you have activated by PC software the inter-prefix individual call, inter-prefix group call, inter-fleet individual call and inter-fleet group call, and have set the proper calling range limit.

2) Individual call (for example, to call the number 201-2001-207): Input the individual call number and then press the "#" key or PTT button to transmit.

a. Individual call of the same prefix and fleet: Input individual call number + # /PTT.
   Dialing sequence: 2+0+7+#/PTTkey

b. Individual call of the same prefix but different fleet: Input fleet code +individual call number + # / PTT button.
   Dialing sequence: 2+0+0+1+2+0+7+# /PTT

c.   Individual call of different prefix and fleet: Input prefix code + fleet code + individual call number+# /PTT button.
   Dialing sequence: 2+0+1+2+0+0+1+2+0+7+# /PTT

3)   Group call (for example, to call the number 201-5000-909):

a. Group call of the same prefix and fleet: Input group call number +

＃/PTT key.

Dialing sequence: 9+0+9+＃/PTT

b. Group call of the same prefix but different fleet: Input fleet code+ group call number + ＃/PTT

Dialing sequence: 5+0+0+0+9+0+9+＃/PTT

c. Group call of different prefix and fleet: Input prefix code + fleet code + group call number +＃/PTT

Dialing sequence: 2+0+1+ 5+0+0+0+9+0+9+＃/PTT

● **Receiving a Voice Call**

When there is a voice call received the caller's number and its group number will be displayed on LCD.

1) When there is a call:

a. If the call is from an ordinary unit or unit other than following types, LCD displays "Unit Call".

b. If the call is of the same prefix and fleet, LCD displays "Unit xxx".

c. If the call is of the same prefix but different fleet, LCD displays "xxxx-xxx".

d. If the call is of different prefix and fleet, LCD displays "xxx-xxxx-xxx".

e. If the caller's address and name are stored in the address book, the caller's name will be displayed instead of his number.

2) "EMG Call" will be displayed for emergency Call.

3) "GROUP Call" will be displayed for group Call. When receiving a group call, the caller's number and the group number being called will be displayed dynamically.

4) "Bcast Call" will be displayed for broadcasting Call.

5) Press PTT button to answer the call. Press Clear button to end or exit the call.

6) After the call, LCD displays "Call Ended", and then the transceiver returns to the Home address if you have preset it by PC software, otherwise, resumes the caller's address displayed before.

● **Cancel a Call**

1) Press ＊+＃ to end a call.

2) Press Clear button to cancel a call.

● **Redialing**

1) 10 groups of dialed number can be stored in the transceiver.

2) Press Redial button to display on LCD the last effective dialed number in Standby mode.

3) Press "▲" or "▼" key or rotate the Rotary Encoder to view dialed numbers.

4) Press PTT or "＃" key to call. Or press Clear button to erase the number.

● **5 Digit Dialing**

1) Make sure you have selected the MPT1343 dialing mode by PC software and preset the 5 digit dialing abbreviatory codes.

2) By PC software you can set the call type, prefix, fleet number, number range with the corresponding abbreviatory codes, the range of which is 20~99.

3) For example in the setting of abbreviatory code 23NNN, the call type is individual call; the number prefix is 237; the fleet number is 2341; the code range is 256. When you call the party whose ID number is 237-2341-214, you can only press 2+3+2+1+4+#/ PTT button to call.

4) If make a group or individual call of a small fleet, you need to add

"0" before the group or individual call number.

- **Queue Incoming Call**
1) Make sure "queue incoming call" function has been set by PC software.
2) "Queue incoming calls": The transceiver uses ACKB to respond an incoming call and put it into the queque. In this mode the "Don't Disturb" function is cancelled.
3) Dial in the sequence of ＊+4+8+＃ to activate "queue incoming call".
4) "Complete" or "SUCCESS" appears on the screen when the setting completes. Warning tone sounds on the same time if it has been set by PC software.

- **Cancel "Queue Incoming Call"**
1) Dial in the sequence of ＃+4+8+＃ to cancel "queue incoming calls".
2) "Complete" or "SUCCESS" appears on the screen when the setting completes. Warning tone sounds on the same time if it has been set by PC software.

◆ **Call Diversions**
- **Diverting Your Own Call**
1) Incoming voice calls, status messages and data messages on your own transceiver can be diverted to other transceivers.
2) Make sure "own call diversion" function has been set by PC software.
3) While in standby mode, you can divert the call through the following operations:
a. Dial in the sequence of ＊+4+1+＊ to divert all calls.

b. Dial in the sequence of ＊+4+1+1+＊ to divert voice calls only.
c. Dial in the sequence of ＊+4+1+2+＊ to divert data calls only.
d. Input the code of the transceiver, which will receive call diversion.
e. Press "# /PTT" button to send call diversion. "Self Diverting" displays.
f. If the diverting succeeds, warning tone sounds and "Complete" or "SUCCESS" appears on the screen.
g. If the diverting fails, warning tone sounds and "Call Failed" or "FAIL" appears on the screen.

- **Diverting Third Party Call**
1) "Third party diversion" function cancels own call diversion to the other transceiver, and diverts all incoming voice calls, status messages and data messages from your own transceiver to the third transceiver.
2) Make sure that "third party diversion" has been set by PC software.
3) While in standby mode, you can divert the call through the following operations:
a. Dial in the sequence of ＊+4+4+＊ to divert all calls.
b. Dial in the sequence of ＊+4+4+1+＊ to diverts voice calls only.
c. Dial in the sequence of ＊+4+4+2+＊ to divert data calls only.
d. Input the code of the transceiver, which has already been diverted. Then input ＊ and the code of the transceiver which will be receive the call diversion.
e. Press "#/PTT" button to send call diversion. "Third Diverting" appears on the screen.
f. If the diverting succeeds, warning tone sounds (if it has been set by PC software) and "Complete" or "SUCCESS" appears on the screen.

g. If the diverting fails, warning tone sounds and "Call Failed" or "FAIL" appears on the screen.

● **Cancel Diversion**
1) Call diversion can be canceled on the transceiver.
2) To cancel call diversion on your own transceiver, follow the operations below:
a. Dial in the sequence of # +4+1+# to cancel all the call diversions.
b. Dial in the sequence of # +4+1+1+# to cancel voice call diversions only.
c. Dial in the sequence of # +4+1+2+# to cancel data call diversions only.
d. "Canceling Divert" displays on the screen.
e. When the setting is completed, warning tone sounds (if it has been set by PC software) and "Complete" or "SUCCESS" appears on the screen.
3) To cancel call diversion on other transceiver, follow the operations below:
a. Dial in the sequence of # +4+4 to cancel all call diversions.
b. Dial in the sequence of # +4+4+1 to cancel voice call diversions only.
c. Dial in the sequence of # +4+4+2 to cancel data call diversions only.
d. Input ＊ and the code of the transceiver on which call diversion will be diverted be canceled.
e. When the setting is completed, warning tone sounds (if it has been set by PC software) and "Complete" or "SUCCESS" appears on the screen.
4) Cancel all calls diverted to your own transceiver:
a. Dial in the sequence of # +4+5+# to cancel all call diversions.

b. Dial in the sequence of # +4+5+1+# to cancel voice call diversions only.
c. Dial in the sequence of # +4+5+2+# to cancel data call diversions only.
d. When the setting is completed, warning tone sounds (if it has been set by PC software) and "Complete" or "SUCCESS" appears on the screen.

◆ **Special Calls**
● **Status Call**
1) A status message code is a one used for transmitting sending preset messages.
2) Make sure "status message call" function has been set by PC software.
3) Send a status message by dialing the keypad. (It's used as an example in the following description that 201-2001-204 transmitting sends the 12th message to 201-2001-205.)
a. Dial in the sequence of ＊+0+1+2+＊+2+0+5 (If the prefix are different, you need to dial ＊012＊+prefix + fleet + individual call number.)
b. Press "#" or PTT button to send the status message. "Sending status" will display.
c. If the transmitting succeeds, warning tone sounds and "Complete" or "SUCCESS" appears on the screen.
d. If the transmitting fails, warning tone sounds and "Call failed", "FAIL", "Unavailable" or "NO ANS" appears on the screen. If the input call address is invalid number, "Null number" appears.
4) Send a status message by selecting in the menu.

a. Rotate the Rotary Encoder to select the contact or input the call address.

b. Press " ✉ key to enter the mode of viewing the built-in status messages, and press " ▲ or " ▼ key or rotate the Rotary Encoder to select the corresponding status message.

c. Press PTT button to send the status message. The display is "Sending status"

d. If the transmitting succeeds, warning tone sounds (if it has been set by PC software) and "Complete" or "SUCCESS" appears on the screen.

e. If the transmitting fails, warning tone sounds (if it has been set by PC software) and "Call failed", "FAIL", "Unavailable" or "NO ANS" appears on the screen. If the input call address is invalid number, "Null number" appears.

5) Receive a status message:

a. When receiving a status message is received, warning tone sounds (if it has been set by PC software) and the " ✉ indicator flashes on the screen.

b. Press " ✉ " key twice to view the received status message.

● **Short Data Call**

1) Make sure that "short data call" function has been set by PC software.

2) A short data message sent on control channel is of 184bit at most (MPT1327) or of 100 characters at most (MPT1343).

3) The formats of short data are MPT1327, MPT1343 BCD，MPT1343 ASCII, which are set by PC software.

4) For example, dial in the sequence of ＊+2+＊+123456+＊ +245, in which 245 is the number being called and 123456 is the data being transmitted.

5) Press PTT or # key to send the short data.

6) If the transmitting succeeds, warning tone sounds (if it has been set by PC software) and "Complete" or "SUCCESS" appears on the screen.

7) If the transmitting fails, warning tone sounds (if it has been set by PC software) and "Call failed", "FAIL", "Unavailable" or "NO ANS" appears on the screen. If the input call address is invalid number, "Null number" appears.

8) When a short data is received, warning tone sounds (if it has been set by PC software) and the " ✉ indicator flashes on the screen. Press " ✉ key twice to view the received Data message.

● **Emergency Call**

1) Emergency Calls have the highest call priority. Usually, they are prior to any other types of calls.

2) Make sure that "emergency call" function, "emergency call address" and "key hold time" have been set by PC software.

3) Send an emergency call by pressing emergency button. Make sure the pressing time is longer than or the same as "key hold time"。When it reaches the touch off time, the transceiver will send emergency call to the preset "Emergency Call Address" automatically.

4) Send an emergency call by dialing keypad:

a. Dial in the sequence of ＊+9+＊+2+0+5. (it is used as an example that 201-2001-204 calls 201-2001-205; if prefix and fleet are different, you need to dial ＊9＊+ prefix + fleet + individual call number.)

b. Press "#" key or PTT button to call. "EMG Calling" or "HELPING" appears on the screen.

- **Priority Call**
1) Priority Call allows you to have the priority over other users when requesting a call.
2) Make sure that "priority call" function has been set by PC software.
3) Dial in the sequence of ＊+8+＊+2+0+5 to initiate a priority call. (It is used as an example that 201-2001-204 calls 201-2001-205; if prefix and fleet number are different, you need to dial ＊8＊+ prefix + fleet + individual call number.) ＊8 is the code for priority call and 205 is the number that you calls.
4) Press # or PTT button to call. "Calling" appears on the screen.

- **Conference Call**
1) Conference Call allows you to call the preset talk-group.
2) Make sure that "conference call" function has been set by PC software.
3) Dial in the sequence of ＊+1+＊+ group address + # /PTT to initiate a conference call.

- **Broadcast Call**
1) Broadcast Call allows you to call a group of transceivers. (During a broadcast call, only the caller can speak.)
2) Make sure that "broadcast call" function has been set by PC software.
3) Dial in the sequence of ＊+1+1+＊+ group address.
4) Press # /PTT button to call. "Calling" appears on the screen.

- **Include Call**
1) Include Call allows the third party to join the talk in the cou-rse of talking.

2) Make sure that "include call" function has been set by PC software.
3) During the course of talking, dial the third party's unit num-ber directly and press "#" or PTT button to call.
4) When calling, the display is "Include call". Press Clear button to cancel the include call, and "IncludeCancel" displays on the screen.

- **ALLI System Call**
1) ALLI system call allows transceiver to call all the transce-ivers registered on the network.
2) Make sure that "ALLI system call" function has been set by PC software.
3) Press ＊+1+9+8+1+# to initiate Priority voice system-wide-call.
4) Press ＊+1+9+8+2+# to initiate Emergency voice system-wide-call.
5) Press ＊+1+9+8+7+# to initiate Standard voice system-wide-call.

- **PABX Call**
Make sure that "PABX call" function has been set by PC software.
There are 4~9-digit dialing modes for PABX call.
1) 4 digit dialing mode: Input 4 digit number to call directly.
2) 5 ~9-digit dialing mode: Extension code composed of digits 0, 7 or 8 should be added before the PABX extension number to dial.
3) Press "#" key or PTT button to call.

- **PSTN Call**
1) Make sure that "PSTN call" function has been set by PC software.

2)   There are 8 ~ 30-digit dial modes for PSTN call.

3)   Number 0 should be added before PSTN number.

4)   Press "#" key or PTT button to call.

5)   If "DTMF dialing while PSTN call" function has been set by PC software, and "forbid data keypad" function is not activated, you can make DTMF call by inputting the number while holding down PTT button.

● **NPD Transfer**

1)   Make sure that "Non-prescribed data transfer" function has been set by PC software.

2)   Press ＊+1+9+8+3+# to initiate Emergency NP data system-wide-call.

3)   Press ＊+1+9+8+4+# to initiate Priority NP data system-wide-call.

● **Network Operator Service Call**

1) If your transceiver requires network service, it needs the cooperation of the relevant base station.

2) Before calling the dispatch station, you need make sure that " Network Operator Service Call" function has been set.

3) Input the number of the dispatch station (see Appendix MPT1343 Dial Mode table) + "#" /PTT to call the dispatch station.

● **Don't Disturb**

1) This function allows transceiver to refuse calls from other transceivers under special circumstances.

2)   Make sure that "Don't Disturb" has been set by PC software.

3)   Dial in the sequence of ＊+4+9+# to refuse all calls.

4)   Dial in the sequence of ＊+4+9+1+# to refuse voice calls.

5)   Dial in the sequence of＊+4+9+2+# to refuse data calls.

6) When the setting is completed, warning tone sounds (if it has been set by PC software) and "Complete" or "SUCCESS" appears on the screen.

● **Cancel "Don't Disturb"**

1)   Dial in the sequence of # +4+9+# to cancel all "Don't Disturb".

2) Dial in the sequence of # +4+9+1+# to cancel voice "Don't Disturb".

3) Dial in the sequence of # +4+9+2+# to cancel data "Don't Disturb".

4) When the setting is completed, warning tone sounds (if it has been set by PC software) and "Complete" or "SUCCESS" appears on the screen.

◆ **Special Features**

● **Remote Kill & Reactivate**

1) The base station can give remote killing order to the lost or stolen transceiver to prohibit its operating. And the base station can also give reactivating order to resume its normal working.

2)   After receiving remote killing instruction, "Killed" displays.

3) If switch on the transceiver again, "Killed" still displays. Only after receiving the reactivating order from the base station, the remote killed transceiver can return to normal operation.

● **Dynamic Group**

1) Dynamic grouping function allows base station to group units as a new team by remote control.

2) The address (number) of this dynamic group is sent to your transceiver by the system, and therefore you may become a

member of the dynamic group, able to receive calls and (depending on how your transceiver is programmed) send calls to that group.

3) After receiving the order of dynamic grouping, the transcei-ver displays "Dynamic Team" and the corresponding prefix, fleet and group number of the dynamic group.

◆ **Keypad Operations**

● **Fast Searching in Contact List**

1) Make sure "fast searching in contact list" function has been selected by PC software.

2) Input the number you are searching and press "▤" key to fast switch to this number. The fast searching is only available for individual and group numbers.

3) If the input number is invalid, it will return to the previous call address automatically, or return to home address if it has been preset.

4) If the input number is group number and not stored in the contact list, the transceiver will store it in the first temporary group and switch the call address to this temporary group.

● **Manually Select Control Channel**

1) In trunking mode you can select the network by inputting the control channel code.

2) Make sure that "select control channel manually" function has been set by PC software.

3) In trunking mode, input "#5" + control channel number. Then you can start "select control channel manually". The range of the preset control channel code is 1~1023.

4) If you haven't preset control channel for the input number, the

transceiver returns to trunking mode immediately.

5) When manually searching control channel, "Search ch xxxx" (xxxx is the corresponding channel number) is displayed on the screen.

6) If the searching fails, "Search Fail Return?" appears on the display. Then press any key to return to trunking mode.

● **Manually Select System Code to Join the Network**

1) In trunking mode you can search the base station by selecting system code manually.

2) Make sure that "select system code manually" functio has been set by PC software. And the manually selecting has been set in the "Multiple System Select" option.

3) In trunking mode, Input "#7" + preset system code + "#" key or PTT button, or input "1" + preset system code + "▤" key, and then you can start "Select System Code Manually". The range of system code is 000~160.

4) If you have not preset system code for the input number or the system code isn't set as being selected manually, the transceiver returns to trunking mode immediately.

5) When manually select system code，"Search Sys xxxx"（xxxx is the corresponding system code) is displayed on the screen.

6) If the searching fails, "Search Fail Return?" appears on the display. Then press any key to return to trunking mode.

● **Manually Switch Personal IDs**

a) Maximum 6 sets of net/personal datas can be stored in the radio;

b) You can switch among different nets/personal IDs by pressing "#8+N+#" keys (N can be 1~6);

c) After successfully switching the datas, the radio will automatically turn off and turn on again.

● **Keypad Lock & Rotary Encoder Lock**
1) Keypad Lock
a. If you have selected the function of selecting "Enable menu" by PC software, press "▤" key in stand-by mode, and "Lock Press ＊ key" is displayed.
b. Press "＊" key to lock the keypad and the "🔒" icon appears on the screen when it succeeds.
c. To release the lock, press "▤" key + "＊", "🔒" icon disappears when it succeeds.
2) Rotary Encoder Lock
a. You can set the way of activating the rotary encoder lock by PC software. By the way you preset you can enable or release the rotary encoder lock.
b. "🔔" icon appears on the screen when the lock is active; "🔔" icon disappears when the lock is inactive. For exam-ple, you can set the function of pressing "1+ ▤" as the switch of the rotary encoder lock, and then press "1+ ▤" key you can activate or inactivate the lock.

● **Enter the Open Channels**
1) In trunking mode, dial "101~110" + "#" key or PTT button to enter the channels "1~10" in conventional mode separately.
2) You can also set the emergency call number as anyone of the "101~110". When you press the emergency button you can enter the corresponding channel.
3) If no conventional channel is preset or the conventional function is not activated, the display is "Null number".

● **Enter Conventional Mode**
1) Make sure you have set conventional mode and conventi-onal channels.
2) While in trunking mode, press "▼" key to enter conventi-onal mode if you have select entering conventional mode by means of default.
3) If you select entering conventional mode by means of compound keys, then you can enter conventional mode in the way set in PC software.
   For example, when the combination keys of "9+ ▤ " are set by PC software as " switch between conventional mode and trunking mode", you can enter conventional mode by pressing "9" and "▤".
4) The transceiver can be set to enter conventional channel automatically when missing the control channel. When the transceiver is beyond the network coverage, it switches to conventional mode automatically according to the preset delay time.

● **Return to Trunking Mode from Conventional Mode**
1) Press Clear button to return to trunking mode in conventional mode if you have select entering conventional mode by means of default.
2) If you select entering conventional mode by means of combination keys, then you can return to trunking mode from conventional mode in the way set in PC software.
   For example, when the combination keys of "9+ ▤" are set by PC software as " switch between conventional mode and trunking mode", you can return to trunking mode by pressing "9" and "▤".

3) The transceiver can be set by PC software to search control channel automatically in conventional mode. In conventional mode, if no signal is received, the transceiver will switch to trunking mode automatically according to the preset delay time. While in mode-switching operation, there is a BEEP warning tone.

■ CONVENTIONAL MODE

● **Conventional Channels**
1) Press PTT to transmit and release to receive.
2) Through PC programming the parameters of conventional mode can be set, such as channel name, RX/TX frequency and BCL, etc.
3) This transceiver can set 32 conventional channels at most.
4) Select channel by rotate the Rotary Encoder.
5) When transmitting, time display prompts TOT.
6) "Lo" indicates low power transmission.
7) Press "Monitor" button to monitor.

● **Channel Scan**
1) 32 channels can be set through PC programming, and the parameters on each channel can be set, such as CTCSS/ DCS encoding and decoding, broad band/narrow band, BCL, high power/low power, voice compander, channel name, etc.
2) Press "▼" to begin scanning. When scanning, LCD displays "Scanning".
3) Scan the channel added in scan sequence list only (and scan just when there are 2 or more than 2 channels added in scan list.) Those channels are indicated by "↘".
4) To add channels to scan sequence, select the channel you need to add and press "▤" key. "↘" displays indicating the

accomplishment of adding.
5) To delete channels from scan sequence, select the channel you need to delete and press "▤" key. "↘" disappears indicating the accomplishment of deleting.

● **Scan Pause**
1) If the signal is detected while in channel scanning, the scanning will pause and the information of the paused channel will be displayed.
2) Press PTT button and speak to microphone to call. (turn on This action activates TOT if this function has been preset)
3) If the PTT button is released and no signal is receiveed, transceiver can continue the scanning after the preset delay time.

● **Revert Channel**
1) If you press PTT button while in channel scanning, the transceiver stops scanning on revert channel and transmits on this channel.
2) By PC software, you can set the revert channel to the channel "last called", "last used" or "selected".

● **Busy Channel Lock (BCL)**
1) This function can prevent other radios on the same channel from being interfered.
2) When the channel is occupied, transceiver will make warning tone and prohibit the transmitting if you press PTT button; if you release PTT button, the warning tone stops and transceiver returns to receiving mode.

● **Monitor**
1) Rotate the Rotary Encoder and select the channel you need.

2) Press "Redial/Monitor" button to monitor all activities of the channel. "MON" symbol appears on the screen.
3) Press "Redial/Monitor" button again to cancel monitor function and resume the original state.

● **Signal's Sending And Ending**
1) Rotate the Rotary Encoder to select the channel you need.
2) Press PTT button to transmit and release to receive.

● **DTMF**
1) Make sure you have selected the DTMF function by PC software and "Forbid Data Keypad" function is not activated.
2) While pressing PTT button, input the number. Then you can hear DTMF sound from speaker.

● **CTCSS/DCS**
1) Dealer might have set CTCSS/DCS signal on transceiver's channel. CTCSS audio frequency or DCS code is subaudible frequency tone/, or DCS code is code. Calls from other irrelevant radios on the same channel will be ignored.
2) When a channel is set with CTCSS/DCS code, squelch function can only be turned on when signal of matchable tone/code is received. Squelch function cannot be turned on when the other party uses different audio frequency or code to call.

● **Time-Out Timer**
1) Time-out timer is to prevent any single person from using a channel to transmit for an extended period of time.
2) If you continuously transmit longer than the time limit preset by the dealer, the radio will stop transmitting and a warning tone will be heard.
3) To stop the warning tone, release the PTT button. You can press PTT again to resume transmitting.

● **Time-Out Timer Pre-Alert**
1) This function is used to notify you a certain time before the preset time-out time reaches.
2) The time can be set only by PC software.

● **Time-Out Timer Re-key**
1) This function is used to set the "penalty" time in which the radio cannot be re-keyed for transmitting after the time-out timer setting is exceeded.
2) During this period, any operation on PTT brings warning tone.

● **Time-Out Timer Reset**
1) This function is used to set the minimum "wait" time allowed between transmissions that reset the Time-out Timer.
2) When "TOT reset time" is set, it causes the TOT continue even after PTT is released unless TOT reset timer has expired

● **DATA SECURITY**
1) By PC software the radio password can be set to prevent others from using without authorization.
2) By PC software the "Read/Write Password" can be set to prevent others from reading or writing the data on the radio.
3) By PC software the passwords of "Program Execution", "Network File" and "Personal File" can be set to prevent others from editing or programming the PC software and the files.

■ APPENDIX

● **Special Dial Code**

Function	Dial string
Cancel a call	*#
Send status message	*0nn
Send short data message	*2*
Conference calls	*1*
Broadcast calls	*11*
Priority voice calls	*1981#
Emergency voice calls	*1982#
Priority NP data system calls	*1983#
Emergency NP data system calls	*1984#

Function	Dial string
Standard voice system calls	*1987#
Diverting your own call	*41*, *411*, *412*
Third party diversion	*44*, *441*, *442*
Queue incoming calls	*48#
Don't disturb (voice, data or both)	*49#, *491#, *492#
Priority calls	*8*
Emergency calls	*9*
End dial string	#
Cancel own call diversion	#41#, #411#, #412#
Cancel third party diversion	#44, #441 #442
Totally cancelled by the receiving party	#45#, #451#, #452#
Cancel "Queue incoming Calls"	#48#
Cancel "Don't Disturb"	#49#, #491#, #492#
Manually switch to control channel	#5
Manually select system code to join the network	#7

◆ MPT1343 Dial Mode

Dial digit	Function	Dial string
2 digits	Individual number	20~89
	Group number	90~99
3 digits	Individual number	200~899
	Group number	900~998
	Emergency operator	112，999
	Enter the open channels	101~110
	Network operator services	100，111，121，131，141，151，161，171，181，191
4 digits	PABX call	1000~8999
5 digits	PABX call （single address word calls)	First string（3~6）+ Second string（1000~8999）
	PABX call （extended addressing protocol)	First string（0，7，or 8）+ Second string（0000~9999）
6 digits	Common prefix Inter-fleet individual call	Fleet（2001~6050）+ Individual（20~89）
	Common prefix Inter-fleet group call	Fleet（2001~6050）+ Group（90~99）
	PABX call（extended addressing protocol）	First string（0，7，or 8）+ Second string（00000~99999）
7 digits	Common prefix Inter-fleet individual call	Fleet（2001~6050）+ Individual（200~899）
	Common prefix Inter-fleet group call	Fleet（2001~6050）+ Group（900~998）
	PABX call（extended addressing protocol）	First String（0,7,or8）+Second String （000000~999999)

Dial digit	Function	Dial string
8 digits	PSTN call	First string（0）+ Second string（0000000~9999999）
	PABX call（extended addressing protocol）	First string（7 or 8）+ Second string （0000000~9999999）
9 digits	Inter-prefix Inter-fleet individual call	Prefix（200~327）+Fleet（2001~6050）+Individual（20~89）
	Inter-prefix Inter-fleet group call	Prefix（200~327）+Fleet（2001~6050）+ Group（90~99）
	PSTN call	First string（0）+Second string（00000000~99999999）
	PABX call（extended addressing protocol）	First string (7 or 8）+ Second string（00000000~99999999）
10 digits	Inter-prefix Inter-fleet individual call	Prefix（200~327）+ Fleet（2001~6050）+Individual（200~899）
	Inter-prefix Inter-fleet group call	Prefix（200~327）+Fleet（2001~6050）+ Group（900~998）
	PSTN call	First string（0）+ Second string（000000000~999999999）
11~30 digits	PSTN call	The first number must be 0.

Dial	Dispatch station ID
100	8170
111	8171
121	8172
131	8173
141	8174
151	8175
161	8176
171	8177
181	8178
191	8179
999	8180

◆ **TECHNICAL SPECIFICATIONS:**

SPECIFICATIONS	PT6808
General	
Frequency	(350 ~ 390) Mhz
Number of trunking control channels	64X6 (64 control channels)
Number of conventional channels	32X6
Channel spacing	25 kHz / 12.5 kHz
Frequency stability	±2.5ppm

SPECIFICATIONS	PT6808
Case size(W×H×D)	140mm×40 mm×145 mm
Weight	895g(Body)
Receiver	
Sensitivity(12dB SINAD)	0.25μV（wide）/ 0.28μV（narrow）
Adjacent channel selectivity	≥70 dB（wide）/ ≥65dB（narrow）
Intermodulation reject ratio	≥70 dB（wide）/ ≥65dB（narrow）
Spurious response reject ratio	≥70 dB
AF output power	≥2000mW (8Ω, distortion less 5%)
Audio response	+2/-6 dB
Transmitter	
RF power	25W(H)/ 5W(L)
Spurious and harmonics	≤-70 dB
Maximum frequency deviation	±5kHz(wide)/ ±2.5kHz(narrow)
Audio response	±3dB

◆ TROUBLESHOOTING

No.	PROBLEM	SOLUTION
1	The radio cannot be Switched on or no display after switched on.	● Power cable may not be connected properly. Connect it again. ● Power may be insufficient.
2	Cannot transmit.	● Make sure PTT button has been pressed completely. ● Hand-mic and main unit may not connect properly.
3	Noise is too loud.	● Beyond the efficient communication range.
4	Cannot talk to or hear other members in your group.	● Make sure you are using the same channel and frequency as the other members in your group. ● Make sure the CTCSS/DCS tone is the same. Beyond the efficient communication range.
5	"UNPROGRAM" displays on the screen.	● Make sure the network and personal parameters is set properly.

No.	PROBLEM	SOLUTION
6	"Hunting" remains on the screen and cannot search the trunking system.	It's searching the network, and please make sure: ● Whether the starting channel of the network and the corresponding frequency are proper; ● Whether the channel spacing is proper; ● Whether the number of the control channel is set properly; ● Whether the system code is set properly.
7	Cannot make call in trunking mode.	● Make sure the personal parameters are valid; ● Make sure the selection of wide or narrow channel in Network Information is proper; ● Make sure the corresponding frequency of the selected channel in trunking mode is proper; ● Make sure the TX power in trunking mode is set to High.
8	Cannot communicate on the voice channel in trunking mode.	● Make sure the corresponding frequency of the seleted channel in trunking mode is proper; ● Make sure you have selected the proper step in Trunked Channel Plan.
9	When inputting correct individual number, group number, telephone number, the indicator displays " NULL NUMBER".	● Make sure the corresponding call facilities are activated. ● Check whether in the personal parameters the talk range limit has been set.

No.	PROBLEM	SOLUTION
10	Frequently switch between trunking mode and conventional mode.	● Please check if you have selected "Enter Conventional Mode" when the control channel cannot be found or "Trunking Search" in conventional mode. ● Please prolong the delay time or cancel this function.
11	Cannot use the keypad.	● Please check if you have selected "Forbid Data Keypad"
12	No power on toning or message toning.	● Please check if the voice has been muted or its volume has been set to 0.
13	Lamp is dim.	● Please check if the auto lamp is activated.
14	No field intensity indicator.	● Please check if the field intensity indicator is inactivated.

NOTE

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