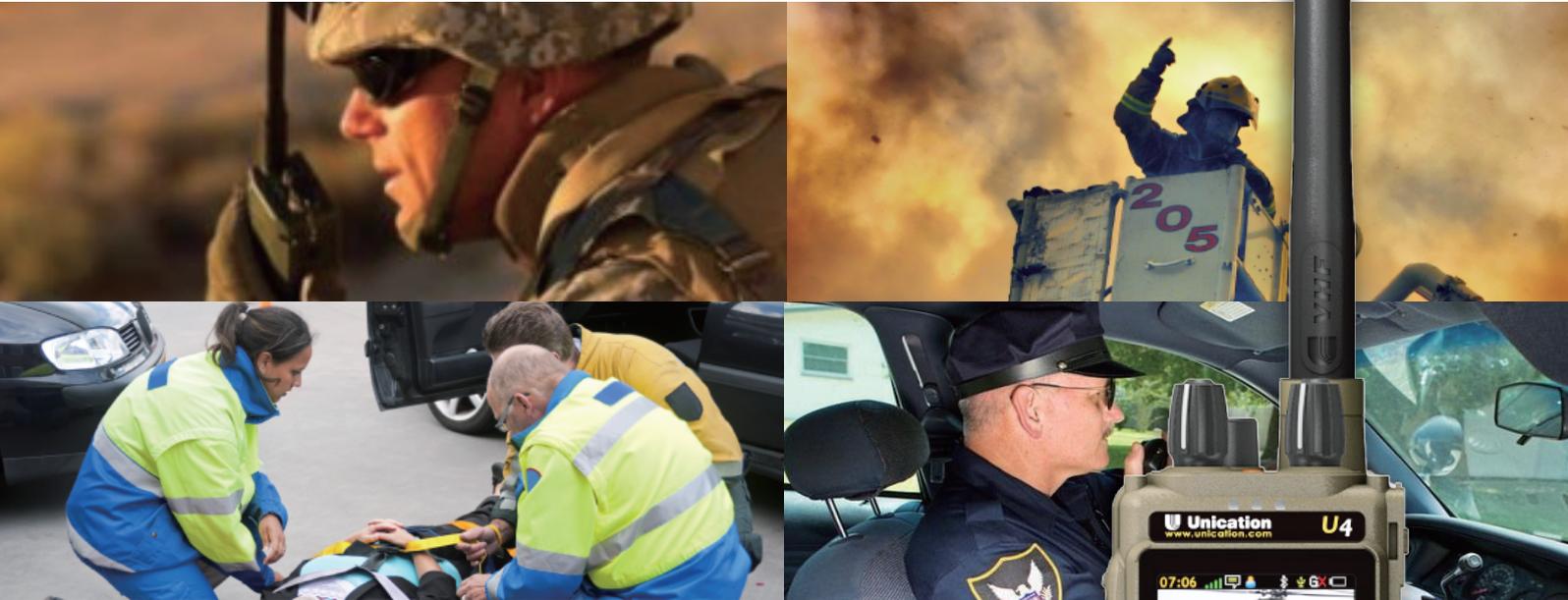




U4

盟訊 U 系列手持無線電機

HAND HELD RADIO SPECIAL DESIGN FOR
MILITARY & PUBLIC SAFETY PURPOSE USE



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Leave a message on the Unication Website : <http://www.unication.com> or <http://www.unicationusa.com>

E1 Wireless Handheld Radio Provide Multiple Certified Standard Communication Protocols for Users to Choose - 1 / 1

1

- As portable radio product, which needs to support portable radio' s commonly used protocols.
- Provide multiple certified standard communication protocols for users to choose.
 - a. Communication protocol provided by analog system
 - a1. CTCSS/CDCSS
 - a2. 2 Tone
 - a3. MDC1200
 - a4. Uni DVOA
 - b. Communication protocol provided by digital system
 - b1. DMR
 - b2. P25(c)
 - c. Communication protocol provided by trunking system
 - c1. P25(T)/Phase 1
 - c2. P25(T)/Phase 2

Users can set up a single communication protocol's receiving table or set up multiple communication protocol receiving table. (The receiving table will be bound to channel knob.)

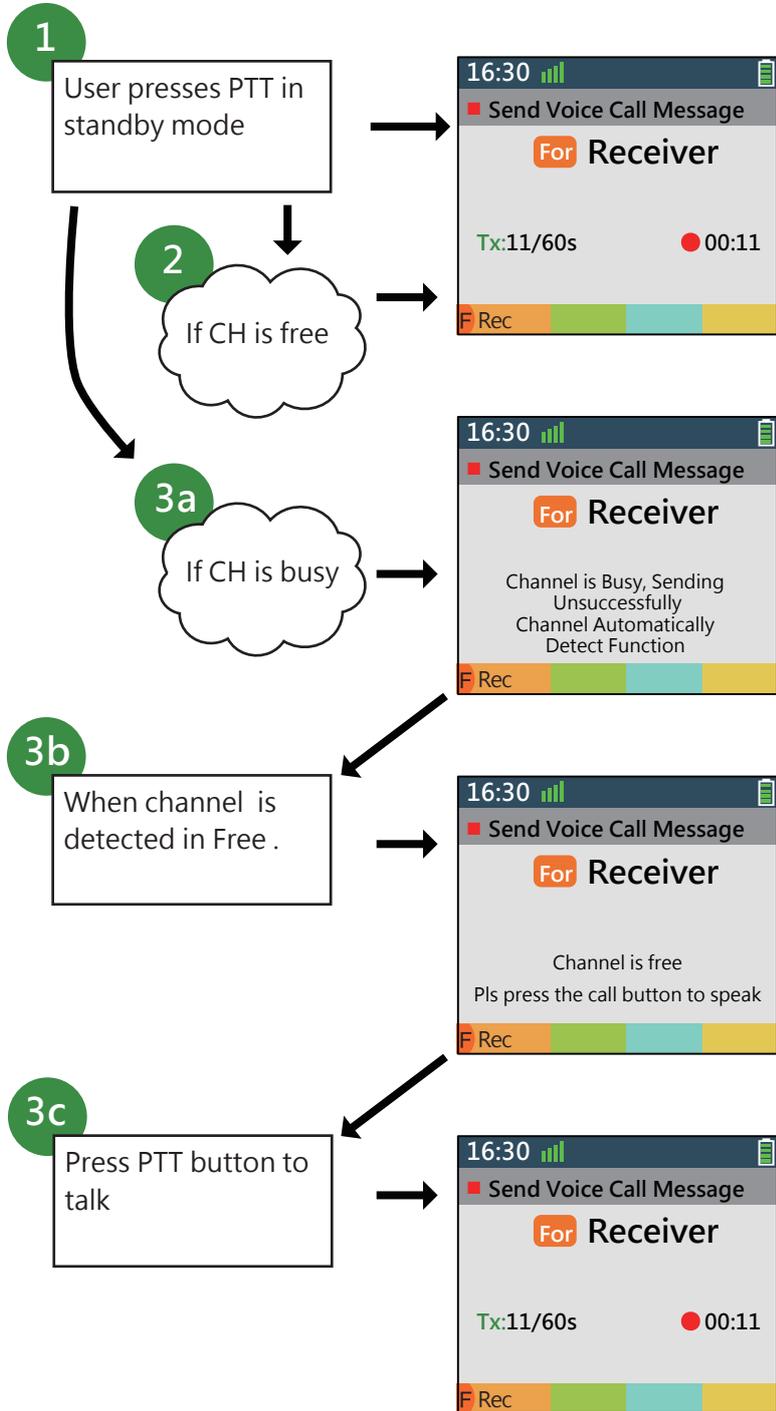
E2 Operating Instruction for Wireless Two Way Radio Provide Analog Signal and Digital Signal Wireless System Mixing-used Function - 1 / 1

1

Please read the details of operation instructions in detail about sending voice call.

E3a Operation Instruction for Function of Using Wireless Portable Radio to Transmit Voice Call - 1 / 4

- In the First Case: Set up Portable Radio to Convention / Single CH / Single TGID / Single Protocol, It will send the Voice Call Automatically



● Dynamic function key instruction :

- Rec Turn on recording
- R.Off Stop recording
- NON
- NON
- NON

1. When CH is Free, a sound of beep will be sent to indicate that the user can speak.
 - a. Line 1 : Receiver
 - b. Line 2: sender (if sender is me, it won't show)
 - c. Line 3-5: sending remark

1. If the channel is busy, the channel detection is started automatically and when the channel is free, it will remind the user ↑ of talking.

● Dynamic function key instruction :

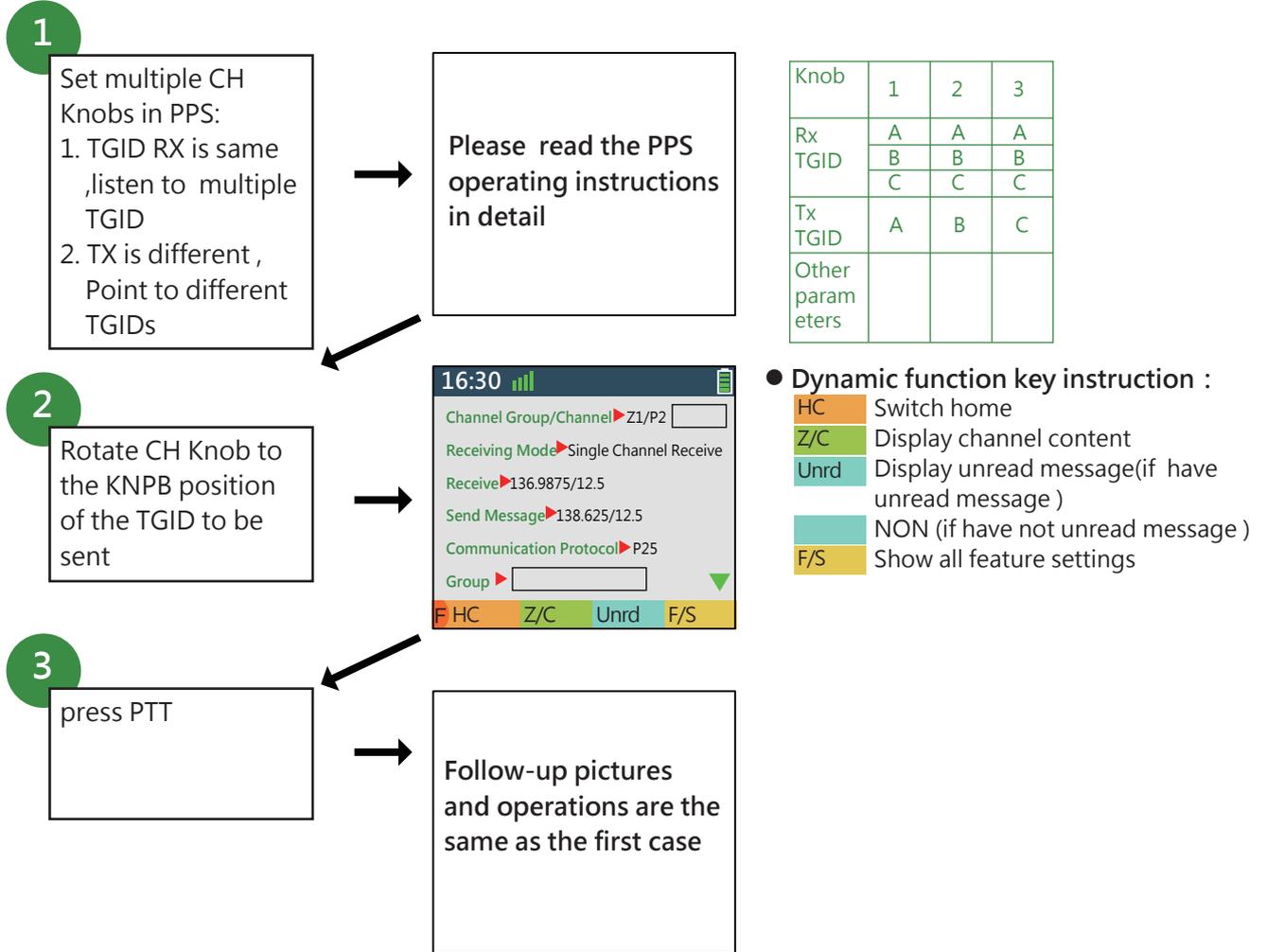
- Rec Turn on recording
- R.Off Stop recording
- NON
- NON
- NON

● Dynamic function key instruction :

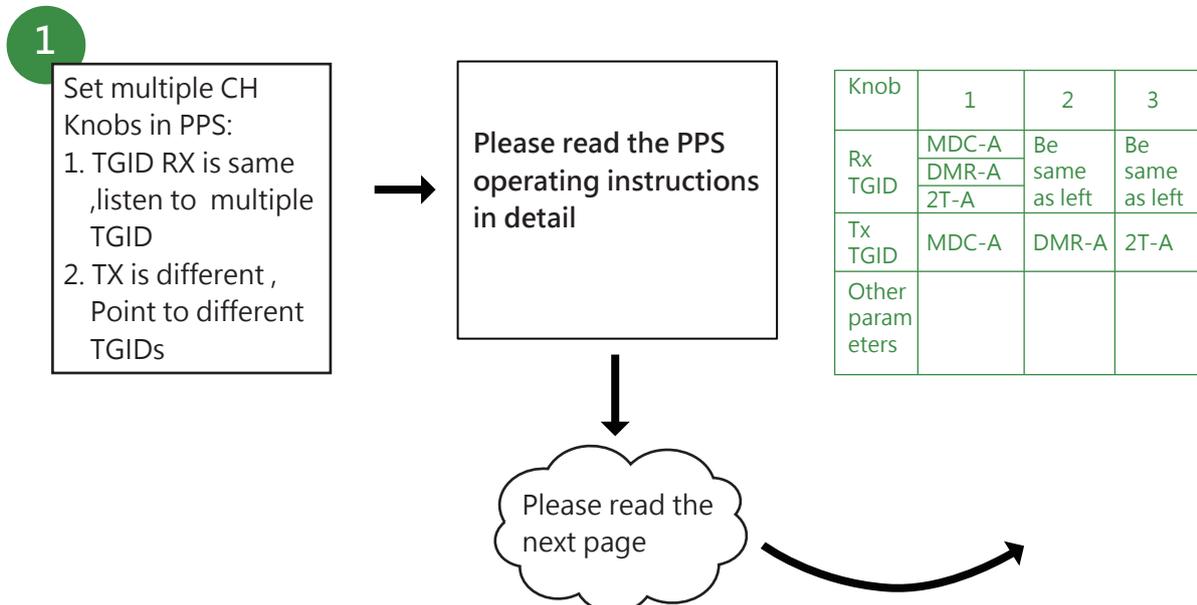
- Rec Turn on recording
- R.Off Stop recording
- NON
- NON
- NON

E3a Operation Instruction for Function of Using Wireless Portable Radio to Transmit Voice Call - 1 / 4

- In the Second Case: Set up Portable Radio to Convention / Single CH / Multi TGID / Single Protocol, It Will Send the Voice Call Automatically

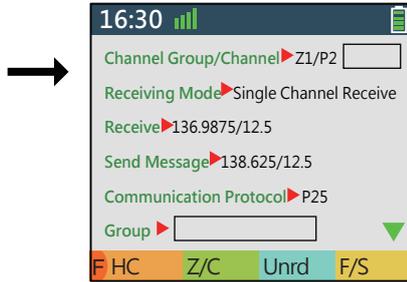


- In the Third Case: Set up Portable Radio to Convention / Single CH / Single TGID / Multi Protocol, It Will Send the Voice Call Automatically



E3a Operation Instruction for Function of Using Wireless Portable Radio to Transmit Voice Call - 1 / 4

2
Rotate channel Knob to the Knob position of the TGID to be sent



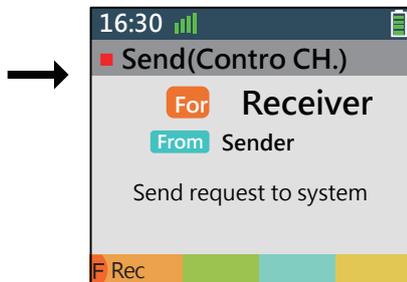
- Dynamic function key instruction :
 - HC Switch home
 - Z/C Display channel content
 - Unrd Display unread message(if have unread message)
 - NON (if have not unread message)
 - F/S Show all feature settings

3
Press PTT

Follow-up pictures and operations are the same as the first case

- In the Fourth Case: Set up Portable Radio to Trunking / Single TGID / One-segment (without Sub Group), It Will Send the Voice Call Automatically

1
Press PTT when handheld radio is in standby mode.



- Dynamic function key instruction :
 - Rec Turn on recording
 - R.Off Stop recording
 - NON
 - NON
 - NON
- 1. When Channel is Free, a beep will be sent to indicate that user can talk.

2
According to the different return from the trunking system, the following case exists.

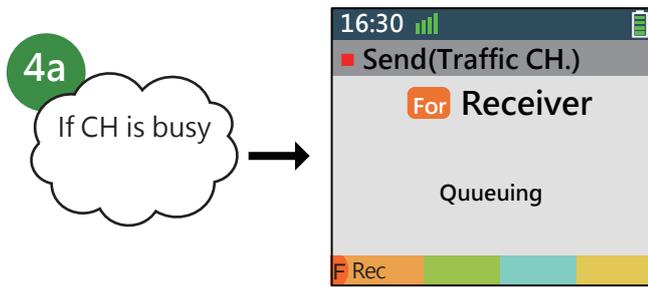


- Dynamic function key instruction :
 - Rec Turn on recording
 - R.Off Stop recording
 - NON
 - NON
 - NON
- 1. When channel is Free, a beep will be sent to indicate that user can talk.

3a
Successfully assigned to Traffic Channel

Please read the next page

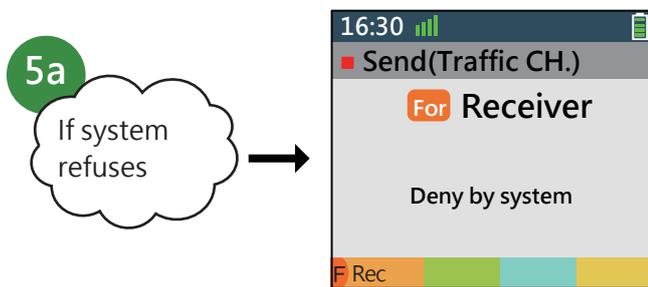
E3a Operation Instruction for Function of Using Wireless Portable Radio to Transmit Voice Call - 1 / 4



● Dynamic function key instruction :

- Rec Turn on recording
- R.Off Stop recording
- NON
- NON
- NON

1. When channel is free , a beep will be sent to indicate that the text message has been sent.



● Dynamic function key instruction :

- Rec Turn on recording
- R.Off Stop recording
- NON
- NON
- NON

1. When channel is free , a beep will be sent to indicate that the text message has been sent.

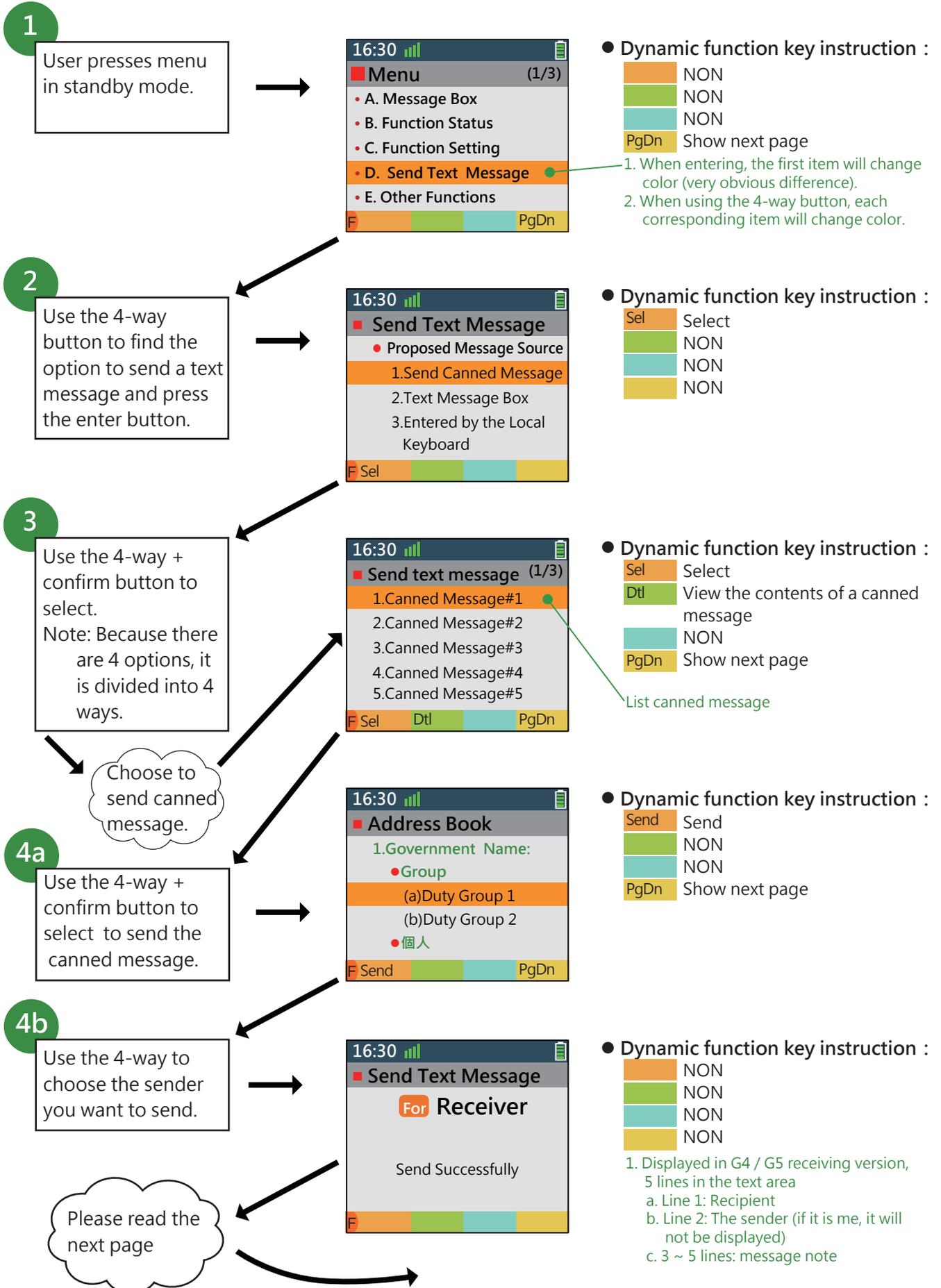
- In the Fifth Case: Set up Portable Radio to Trunking / Single TGID / Two-stage (with Sub Group), It Will Send the Voice Call Automatically.

The operation screen is the same as the fourth case.

- In the Sixth Case: Set up Portable Radio to Trunking / Multi TGID / Two-stage (with Sub Group), It Will Send the Voice Call Automatically.

The operation screen is the same as the fourth case.

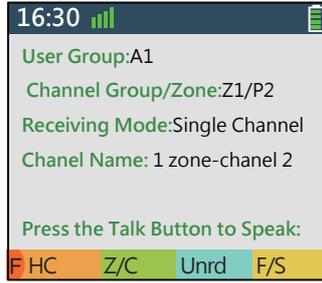
E3b Text Message Transmission Function Operation Instruction - 1 / 3



E3b Text Message Transmission Function Operation Instruction - 2 / 3

4c

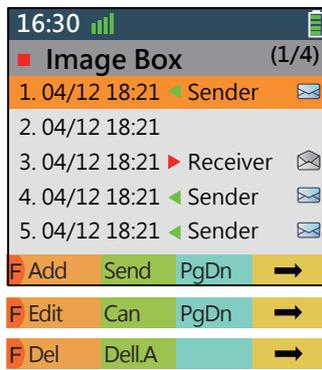
The screen automatically turns off after 3 seconds and returns to the standby screen.



- Dynamic function key instruction :
 - HC Switch home
 - Z/C Display channel content
 - Unrd Display unread message(if have unread message)
 - NON (if have not unread message)
 - F/S Show all feature settings

● The Second Option: Forwarded by Portable Radio' s Text Message Box

Choose Text Message Box



- Dynamic function key instruction :
 - Add Add
 - Send Send
 - PgDn Show next page
 - Switch to dynamic key of the next page
 - Edit Edit
 - Can Display canned message
 - Lock Lock the record
 - Unlk Unlock
 - Switch to dynamic key of the next page
 - Del Delete the record chosen
 - Del.A Delete all the record
 - NON NON
 - Switch to the previous page dynamic key

5a

Use the 4-way button to select the text message you want to send and press the Send button.



- Dynamic function key instruction :
 - Send Send
 - NON NON
 - NON NON
 - PgDn Show next page

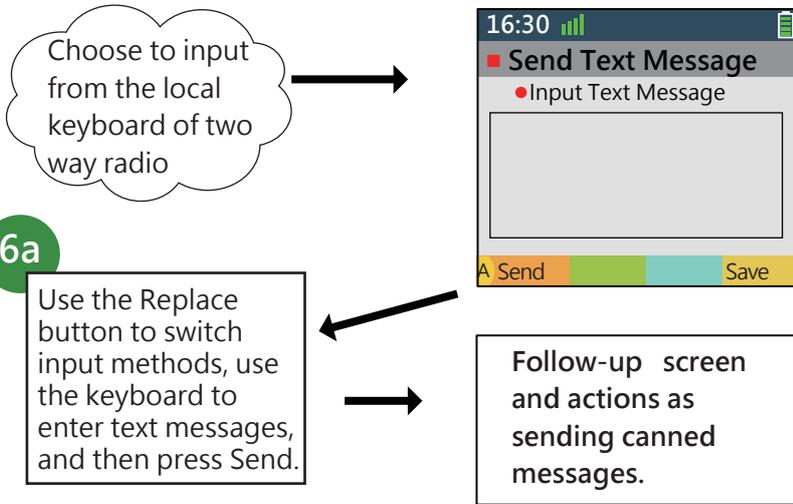
5b

Use 4-way to select the sending object, press send.

Follow-up screens and actions with sending canned messages.

E3b Text Message Transmission Function Operation Instruction - 3 / 3

● **The Third Option: Input from The Local Keyboard of Portable Radio.**



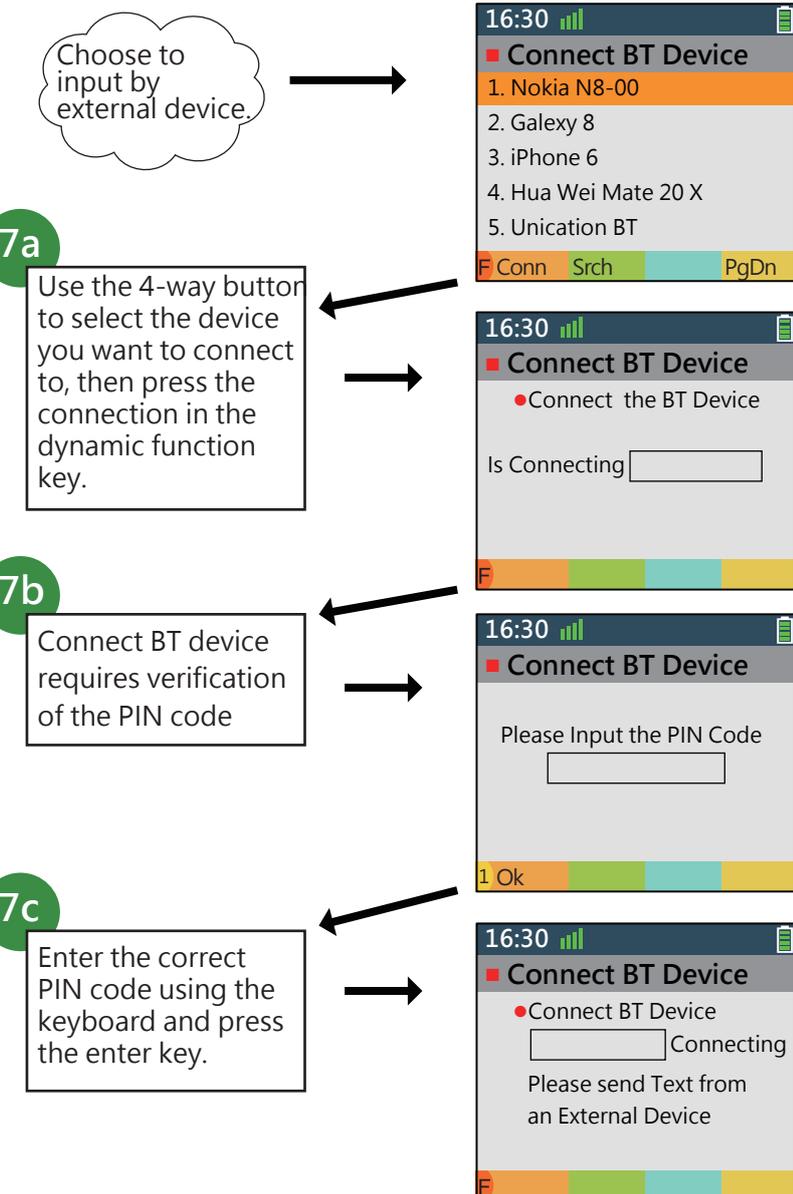
● **Dynamic function key instruction :**

- Send
- NON
- NON
- Save

Input instruction :

1. The keyboard has multiple inputs
2. Switch the input method with the switch button.
3. On the left side of the tool area, there is a small semicircle indicating which input is currently.
4. The input method is shown below :
 - Dynamic functions menu
 - English input

● **The Fourth Option: Input by External Device**



● **Dynamic function key instruction :**

- Send
- Search BT device
- NON
- Show next page

Screen displays the name of the discovered Bluetooth device.

● **Dynamic function key instruction :**

- NON
- NON
- NON
- NON

● **Dynamic function key instruction :**

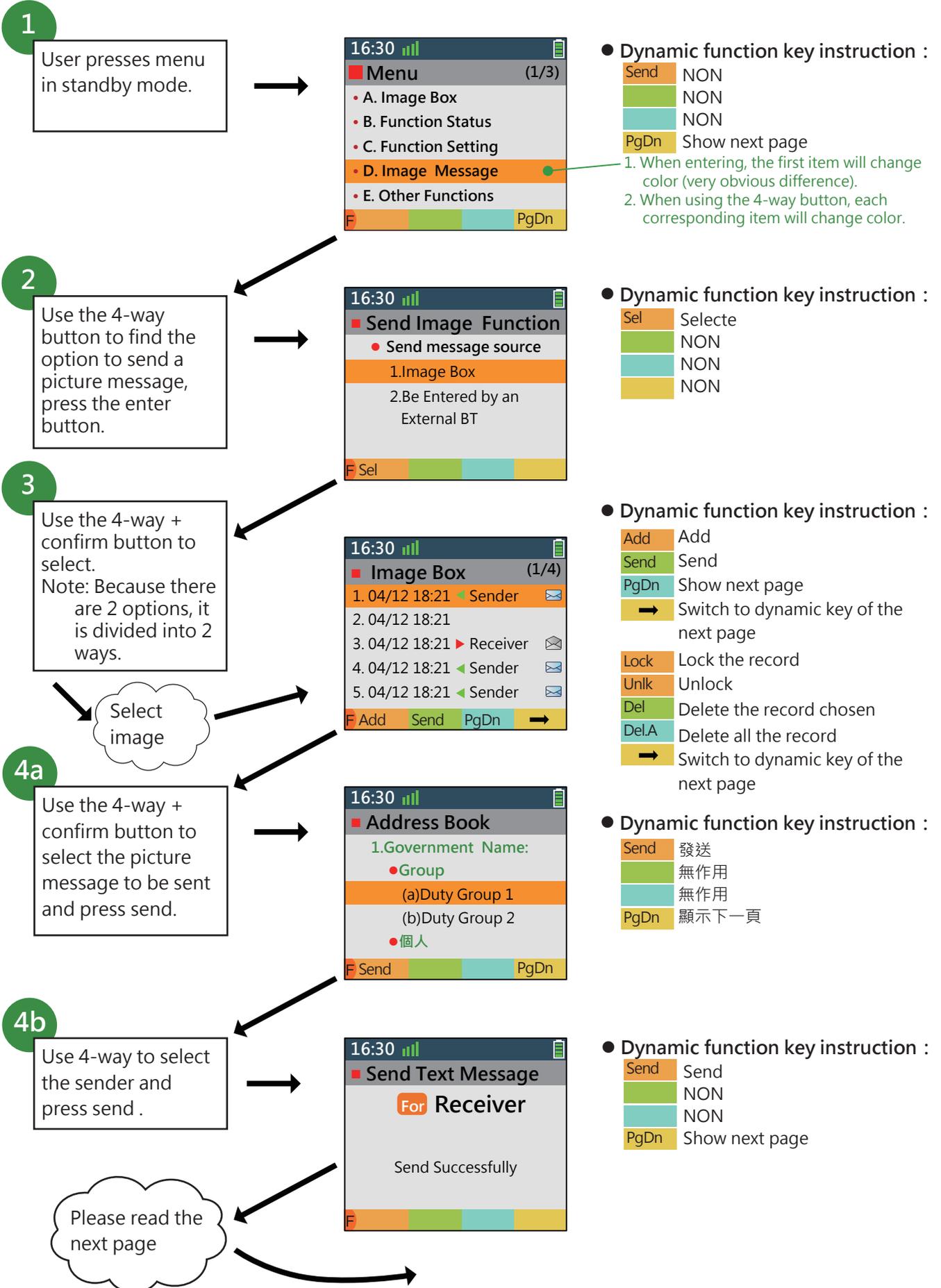
- Confirm
- NON
- NON
- NON

● **Dynamic function key instruction :**

- NON
- NON
- NON
- NON

Subsequent operations are all completed by external devices.

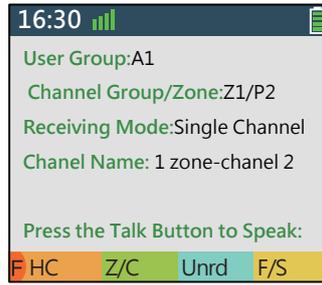
E3c Image Message Transfer Function Operation Instructions - 1 / 3



E3c Image Message Transfer Function Operation Instructions - 2 / 3

4c

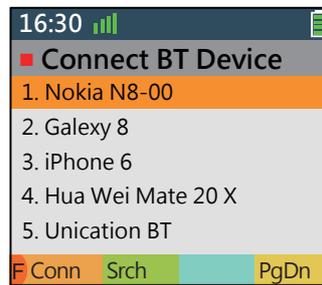
The screen automatically turns off after 3 seconds and returns to the standby screen.



- Dynamic function key instruction :
 - HC Switch home
 - Z/C Display channel content
 - Unrd Display unread message(if have unread message)
 - NON (if have not unread message)
 - F/S Show all feature settings
- ★ After sending, a beep will be sent to indicate that the text message has been sent.
- ★ If the channel is busy, the channel idle detection is started, and when the channel is idle, it is automatically sent.

● The Second Method: Input by External Device

Choose to input by external device.



- Dynamic function key instruction :
 - Send Send
 - Srch Search BT device
 - NON
 - PgDn Show next page
- Screen displays the name of the discovered Bluetooth device.

5a

Use the 4-way button to select the device you want to connect to, then press the connection in the dynamic function key.



- Dynamic function key instruction :
 - NON
 - NON
 - NON
 - NON

5b

Connect BT device requires verification of the PIN code



- Dynamic function key instruction :
 - Ok Confirm
 - NON
 - NON
 - NON

5c

Enter the correct PIN code using the keyboard and press the enter key.



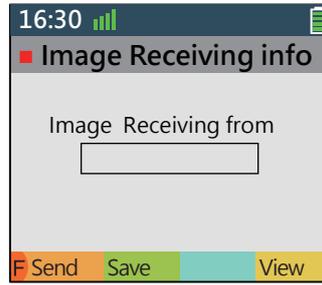
- Dynamic function key instruction :
 - NON
 - NON
 - NON
 - NON
- Subsequent operations are all completed by external devices.

Please read the next page

E3c Image Message Transfer Function Operation Instructions - 3 / 3

5d

Use the connected external device to enter or choose one picture or pictures file and then send to two way radio.



● Dynamic function key instruction :

Send	Send
Save	Save
NON	NON
View	View

5e

Click Send in the dynamic function key.



Follow-up Image and actions are the same as the first choice.

E4 Switching Wireless Handheld Radio to Signal Repeater Function Operation Instructions - 1 / 2

1

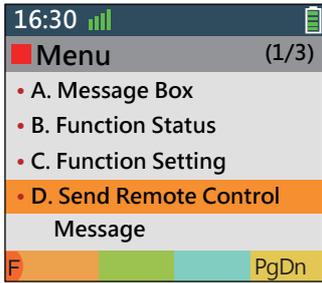
When the communication range of two way radio group exceeds the range of the pass-through mode, the commander will select a suitable handheld radio as the signal repeater device.

Select according to the following features:

- have a one-time request of a specific group or individual to immediately send out the GPS coordinates of their location.
- Each radio position display function.

2

Commander presses menu

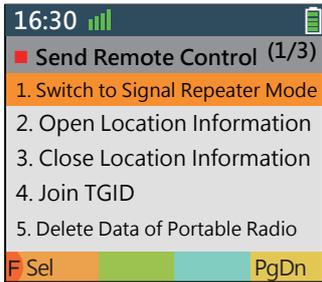


● Dynamic function key instruction :

- NON
- NON
- NON
- PgDn Show next page

3

Use the 4-way button to find the send remote control message.

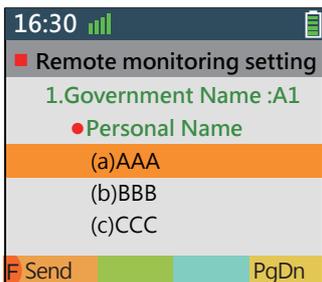


● Dynamic function key instruction :

- Sel Select
- NON
- NON
- PgDn Show next page

4

Use the 4-way button to find the option to switch to signal repeater mode and press the enter key.

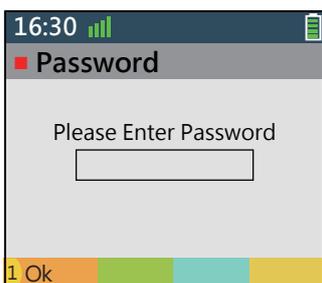


● Dynamic function key instruction :

- Send Send
- NON
- NON
- PgDn Show next page

5

Use the 4-way button to select the repeater device and press the send dynamic button.



● Dynamic function key instruction :

- Ok Confir
- NON
- NON
- NON

Please read the next page

E4 Switching Wireless Handheld Radio to Signal Repeater Function Operation Instructions - 2 / 2

6

Use the replace button to switch the input method and enter the password using the keyboard. And press ENTER.



Input instruction :

1. The keyboard has multiple inputs
2. Switch the input method with the switch button.
3. On the left side of the tool area, there is a small semicircle indicating which input is currently.
4. The input method is shown below :
 - F** Dynamic functions menu
 - A** English input

● Provide the Function of Manually Switching to The Signal Repeater Working Mode

7

When the communication range of two way radio group exceeds the range of the pass-through mode, the commander will select a suitable handheld radio as the signal repeater device.

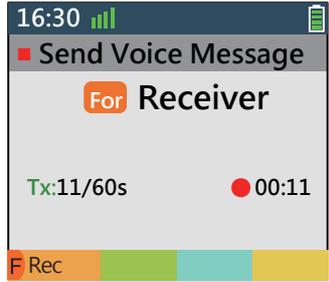


Select according to the following functions:
 (E22)have a one-time request of a specific group or individual to immediately send out the GPS coordinates of their location
 (E20)Each radio position display function.

8

The commander presses the call button to send a voice to group of two way radios , requesting:

1. The selected handheld radio user switches to channel #15.
2. Other members switch to channel #16.



● **Dynamic function key instruction :**

Rec	Turn on recording
R.Off	Turn off recording
	NON
	NON

Remark: Pre-set 2 chanel in PPS
 For example: Channel #16 for RNR Radio
 Channel #15 for RNR Repeate

E5 Communication Encryption Function Operation Instruction - 1 / 1

1

1. The operation of the sender is to operate in the normal Convention mode.
2. Need to pre-set encryption Key for each TGID.



Radio_PPS_V03-00-03_Beta02

Radio PPS Version: V3.0.3 Beta02 User: admin Connected Devices: 0

View/Edit Existing Profile >> Group & Private ID Setting

Talk Group ID Setting Member and Private Call ID Setting Assigning Member into Group

Group List

Total: 100 Max: 8192

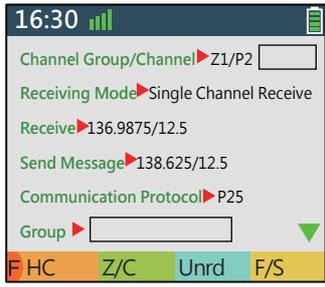
No.	Group Alias	Encryption Key	P25T TGID	P25T Sub-Group ID
1004	TPI TG 1	Key name#1	1 (DEC) 1 (HEX)	No Setting
1005	TPI TG 40	Key name xx	40 (DEC) 28 (HEX)	Click to set...
1102	Group 1	Key name xx	No Setting	No Setting
1103	Group 2	Key name xx	No Setting	No Setting
1006	Direct 1	Key name yy	911 (DEC) 38F (HEX)	No Setting

Save Next

E7 Multiple Receiving Mode Receiver Setting Operation Instructions - 1 / 2

1

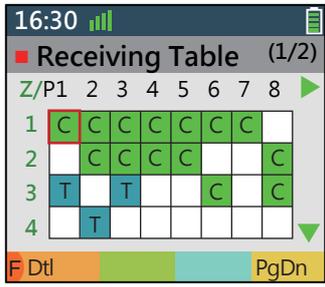
User in any situation , press the back button multiple times to return to the standby screen.



- Dynamic function key instruction :
 - HC Switch home
 - Z/C Display channel content
 - Unrd Display unread message(if have unread message)
 - NON (if have not unread message)
 - F/S Show all feature settings

2

Press the dynamic function key to select the function. Note: Because there are 4 options, it is divided into 4 ways.



- Dynamic function key instruction :
 - Dtl Display details
 - NON
 - NON
 - PgDn Show next page

Press to display the contents of the receiving

3a

Press the right button of the 4-way button (the red cursor will move one space to the right when the last one is reached) , then press the right button to display the channel 9 ~ 16



- Dynamic function key instruction :
 - Dtl Display details
 - NON
 - NON
 - PgDn Show next page

3b

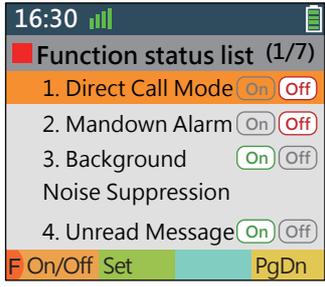
Press the down button of the 4-way button (the red cursor will move down one space when the last one is reached) , press the button again to display the next page



- Dynamic function key instruction :
 - Dtl Display details
 - NON
 - NON
 - PgDn Show next page

4a

Press to display all function settings in standby screen.



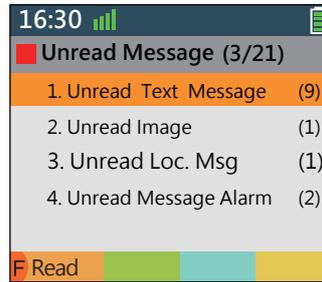
- Dynamic function key instruction :
 - On/Off Switch Toggle
 - Set Set
 - NON
 - PgDn Show next page

Please read the next page

E7 Multiple Receiving Mode Receiver Setting Operation Instructions - 2 / 2

5a

Press the unread message on the standby screen

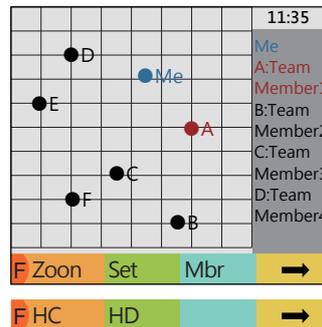


● Dynamic function key instruction :

- Read Read
- NON NON
- NON NON
- NON NON

6a

In the standby screen, press to switch the standby screen.



● Dynamic function key instruction :

- Zoon Switch scale
- Set Set the members of the displayed portable radio.
- Mbr Switch the cursor to the right walkie-talkie member list
- Switch next page dynamic key
- HC Switch to standby mode
- HD Remove this standby screen display
- Display receiving table
- Switch to dynamic key of next page

Note :

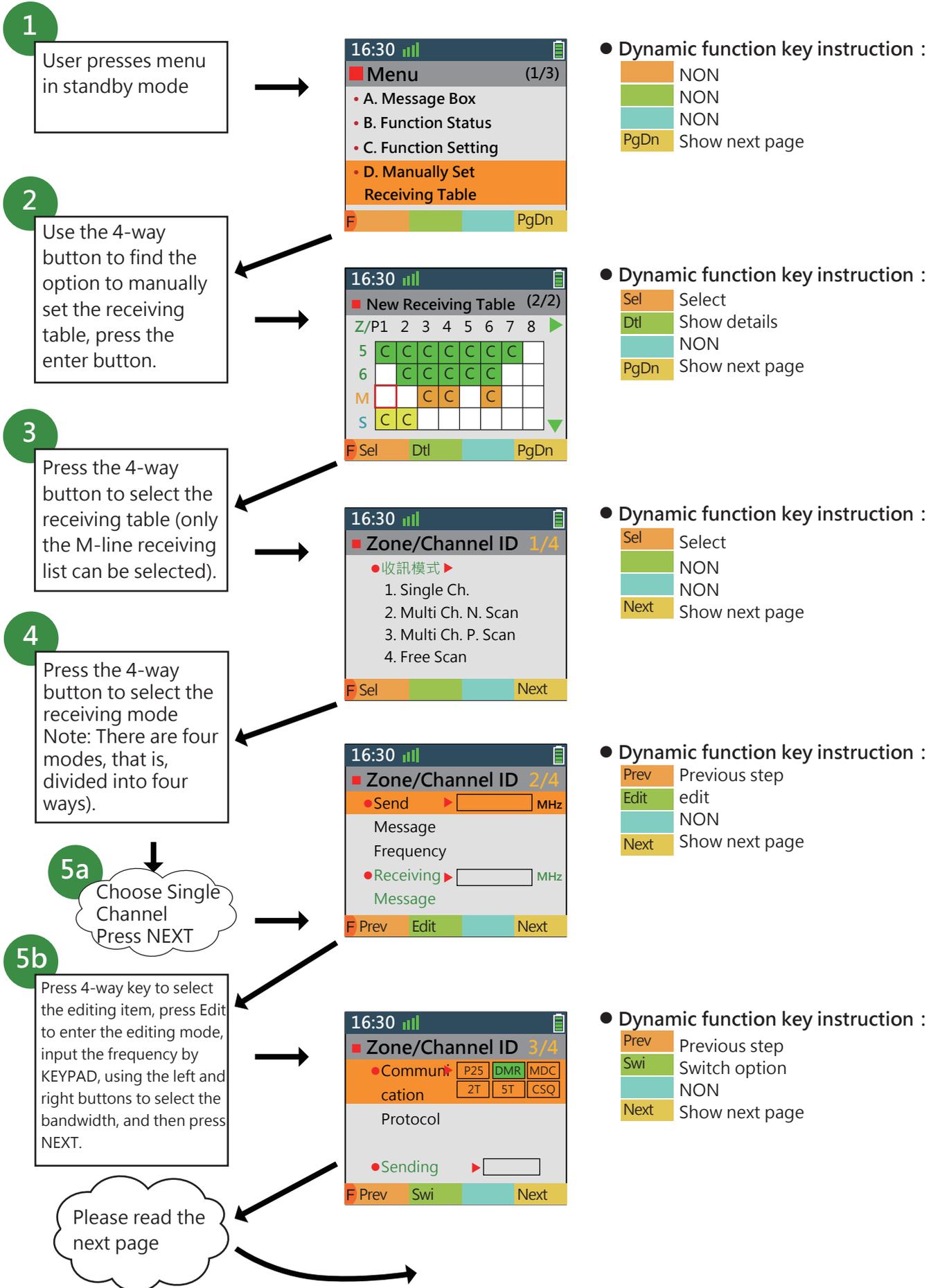
(A) Provide multiple standby screens.

1. Receiving table message as home
2. User customizes standby screen
3. Location map and information of the incident as home
4. GPS display as home
5. Man-down member as home
6. Emergency personnel location as Home
7. Missing Population Information as Home
8. Suspect information as Home
9. North Arrow or Compass as Home
10. Each status of forest fire field display as Home

(B) The above 10 home

1. The first home is fixed
2. The second home needs to be preset. If it is set, it will appear fixedly.
3. After the next 8 functions are activated, the screen can be placed on the Home screen, and because of these functions, multiple simultaneous occurrences occur, so in the "Home" function, Mengxun must provide a home switching mechanism instead of a single Home screen for user convenience.
4. Therefore, on the standby screen, there is a H/C (Switch Home) dynamic function key.

E8 Operation Instructions of Setting the Receiving Table Manually - 1 / 3



E8 Operation Instructions of Setting the Receiving Table Manually - 2 / 3

5c Press the 4-way button and Keypad to complete the protocol selection and ID entry, then press Next.



- Dynamic function key instruction :
 - Prev Previous step
 - Add Add
 - NON NON
 - Save Save

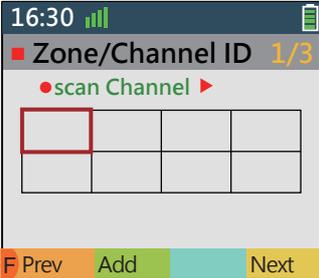
5d Save Press the 4-way button and Keypad to complete the TGID input, then press Save.



- Dynamic function key instruction :
 - Close Close
 - NON NON
 - NON NON
 - NON NON

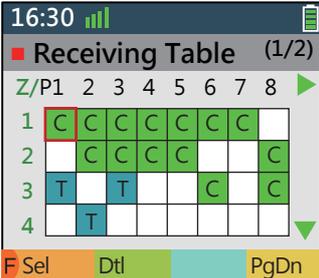
● The Second option: Add Channel for Multi Channel Normal Scan

6a Choose Multi CH Normal Scan, press Next



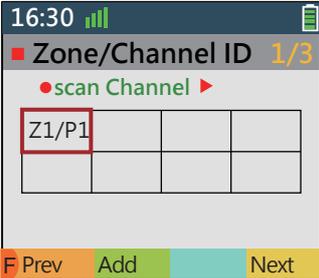
- Dynamic function key instruction :
 - Prev Previous step
 - Add Increasing scanning channel
 - NON NON
 - Next Next step

6b Press the key of increasing scanning channel.



- Dynamic function key instruction :
 - Sel Select
 - Dtl Show details
 - NON NON
 - PgDn Show next page

6c Press 4 + + to select the channel.



- Dynamic function key instruction :
 - Prev Previous step
 - Add Add
 - NON NON
 - Next Show next page

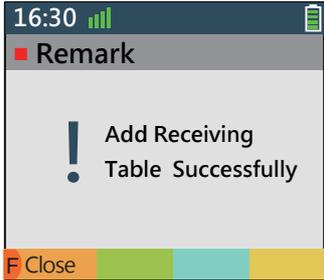
Please read the next page

E8 Operation Instructions of Setting the Receiving Table Manually - 3 / 3

6d After adding the scan channel, press Next.



6e Use Keypad to complete the channel dwell time input, then press Save.



- Dynamic function key instruction :
 - Prev Previous step
 - Edit edit
 - NON NON
 - Save Save
- Dynamic function key instruction :
 - Close Ciose
 - NON NON
 - NON NON
 - NON NON

● The Third Option: Add CH for Multi CH Priority Scan

7a Choose CH of Multi CH Priority Scan

→

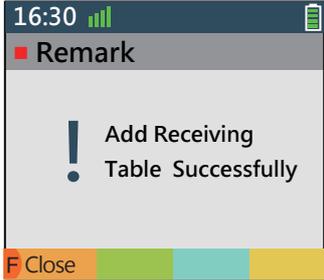
The same process as Multi CH Normal Scan

● The Fourth Option: Add CH for Free Scan

8a Choose free scan CH

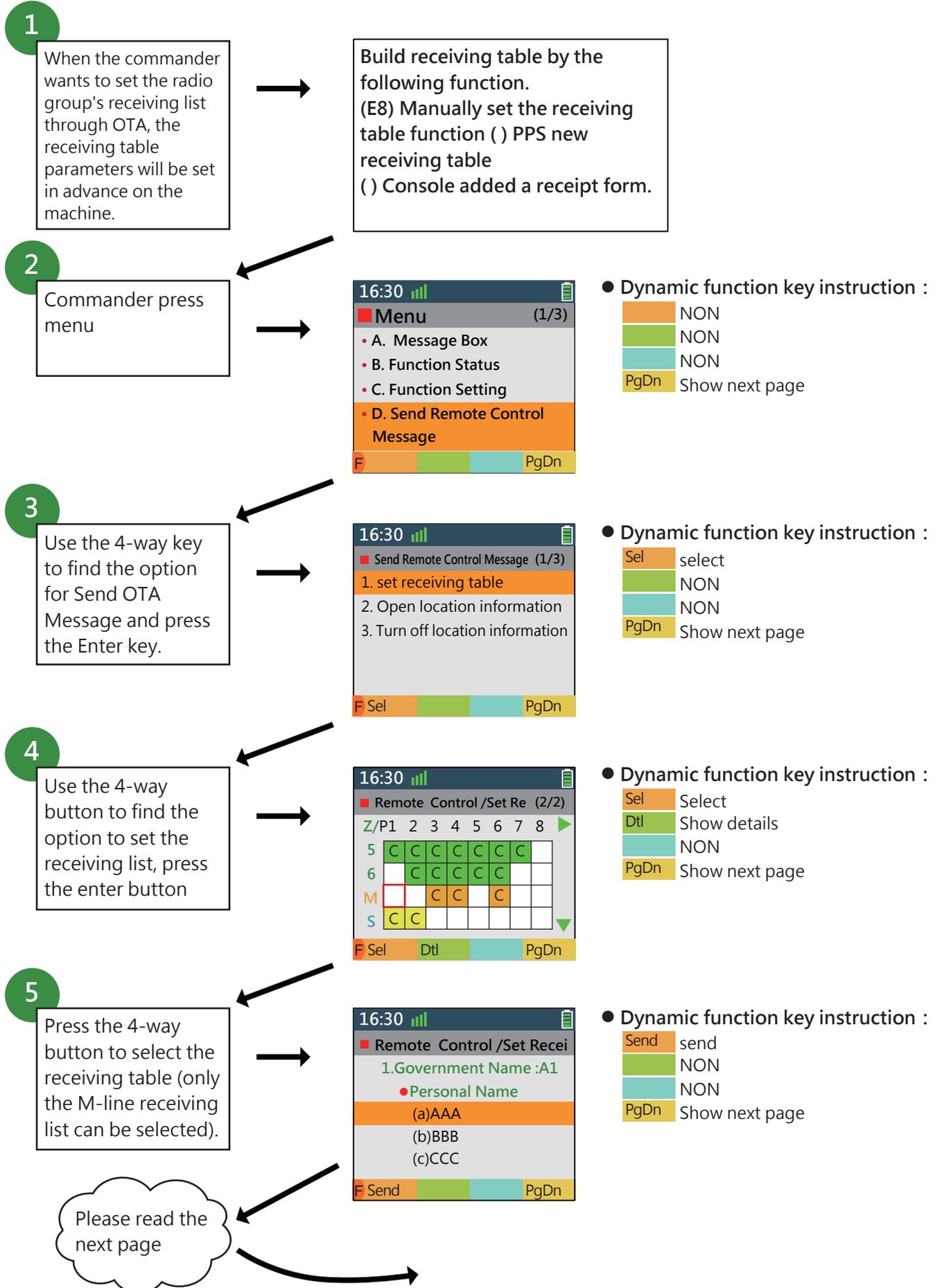


8b Use the 4-way button and Keypad to complete the input of each parameter on the screen, and then press Save.

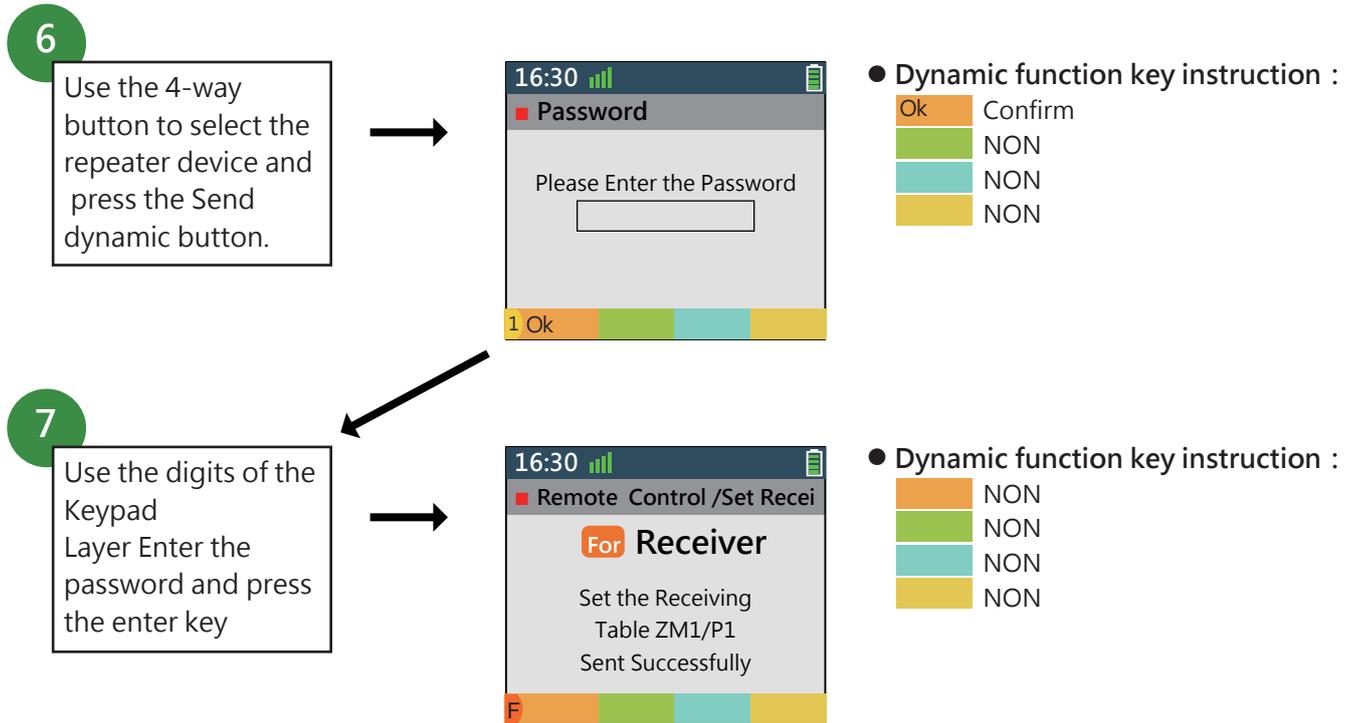


- Dynamic function key instruction :
 - Prev Previous step
 - Edit edit
 - NON NON
 - Next Next step
- Dynamic function key instruction :
 - Close Ciose
 - NON NON
 - NON NON
 - NON NON

E9 Operation Instructions of Setting the Receiving Table Manually - 1 / 2



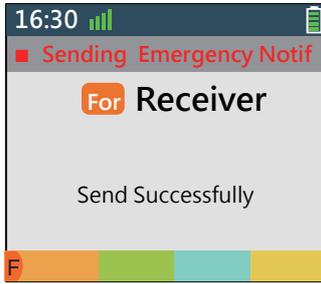
E9 Operation Instructions of Setting the Receiving Table Manually - 2 / 2



E10 Emergency Call Function Setting Operation Instruction - 1 / 1

1

User presses Emergency Key on any screen.



● Dynamic function key instruction :

- NON
- NON
- NON
- NON

1. Portable Radio will first enter the Emergency state :
 - a. Continuously send Siren Tone (can be set by PPS).
 - b. Status Bar keeps flashing red Emergency word.
 - c. The transmit power must be Dhigh power, and the H word is displayed on the Status Bar.
 - d. Will automatically jump to the Emergency Channel (can PPS setting).
 - e. Automatically turn on GPS Engine.
2. During sending process , the signaling LED will flash until the transmission is completed.
3. After the successful communication, there is a long sound of beep sending.
4. This screen automatically closes in 3 seconds.

2

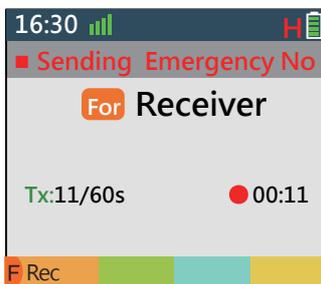
Send automatically the GPS coordinates of the current radio location to the group in the current channel.



Because GPS inform is sent regularly, if the user keeps being informed of the sending result by warning interface every time , it will disturb the handheld radio's normal operation .Therefore, report the result of the transmission in the Status bar, and the status become normally after 3 seconds. The status column is designed as Layer. Normally, the Icon is used to display various states (such as signal strength, battery status, etc.). When some frequently executed function results are notified and are not suitable for the text area, this position can be temporarily used. Display recovery after 3 seconds.

3

Radio automatically uses high power to send SOS voice
 Note 1: CH Busy is not detected. Note 2: Pressing PTT to stream The same is true.



● Dynamic function key instruction :

- Rec Turn on recording
- R.Off stop recorddin
- NON
- NON
- NON

1. The voice of help is divided into two types:
 - a. Since the Radio user is likely to be unable to act when Emergency occurs, you can choose to send the recorded voice Prompt (Prompt voice message can be set in PPS).
 - b. Or choose to open Mic to send the ambient sound (time duration can be set by PPS).
2. After the voice is sent, handheld radio will continue to send the GPS coordinates of the current handheld radio location. The process is the same as (T2) (the interval can be set in PPS).

E11 Operation Instruction of Providing Manual Operation Interface as User Operation Interface Design Function - 1 / 1

● Buttons Provided by Each Radio Model :

#	Key	U3	U4	U5
1	4 to + Confirm Button	Provide	Provide	Provide
2	Dynamic Function Key	2	4	2
3	Menu key	NON	NON	NON
4	Home Key	Provide	NON	Provide
5	Back Key	Provide	Provide	Provide

If the models that do not provide a Menu Key or Home Key, it will be provided by the Keypad's function layer:

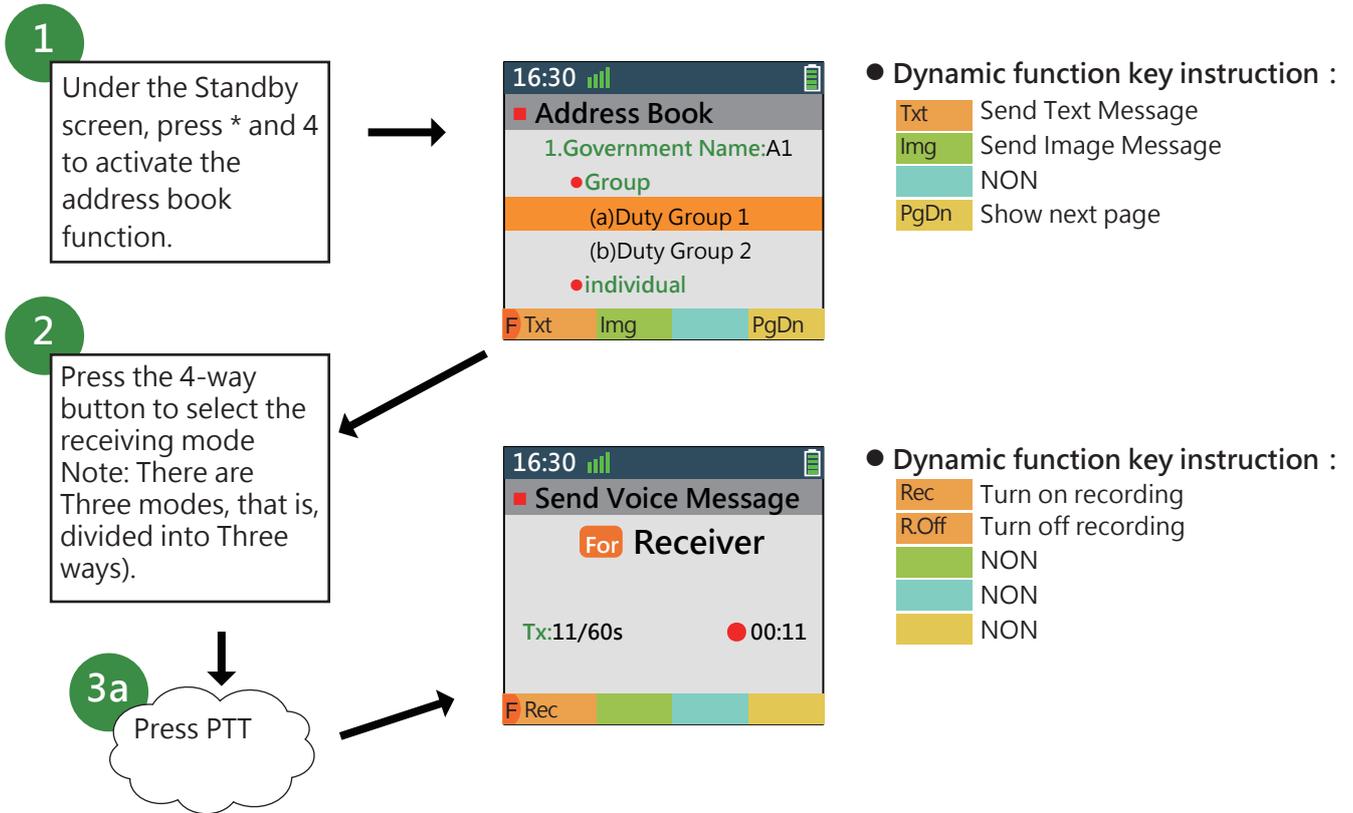
Press "*" and "1" to enter the Menu screen.

Press "*" and "0" to display the home screen.

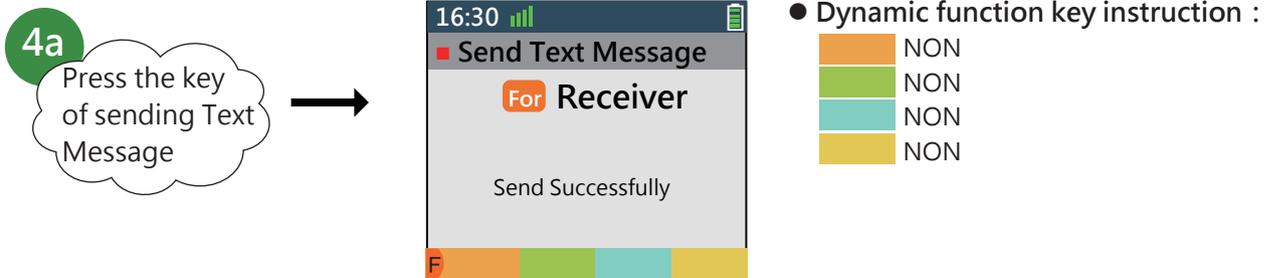
E12 Operation Instruction of Hardware Functions of Providing Quick Function to Start or Cancel - 1 / 1

Function Name	Function Instruction	Operation Key Combination	Remark
The group radio displays the location function on the electronic map (with its own radio location as the map center).		Start by pressing * and 0 to cancel by pressing # and 0	
Automatically and timely report the radio' location of own to the designated commander radio, control center, group.		Start by pressing * and 1 to cancel by pressing # and 1	Note: Report intervally, report object can be selected in the setting function.
Call Alert #1 feature requires a receiving group , inform the radio GPS coordinates at one time at once.		Start by pressing * and 2 to cancel by pressing # and 2	Note: This function is a one-time function. After the execution, it is automatically canceled. The function of canceling is used to execute at the half of time.. Change the mind to let AP function return to the initial state and avoiding the disorder of the system operation.
Call Alert #2 function	The purpose of this feature is When radio Console or Commander intends to talk to a specific person (non-group), that particular person is absent (no answer, this function will be activated, and the caller will appear on the screen. Call Alert #2. Ibid. Unread The message indicator will flash to inform the user and the user can call back according to this.	Start by pressing * and 3 to cancel by pressing # and 3	As the remark list above
Use the address book to perform personal or group communication functions	This unit provides a similar phone address book function, and the sender can send a message to a specific individual or group through the selection of the address book.	Start by pressing * and 34 to cancel by pressing # and 4	As the remark list above The receiving/sending frequency of the receiving group or individual selected from the address book ,may be different from the channel frequency set by the sender's current channel knob position, but the DSP will depend on the selected group or individual to do the one-time setting including the Hang time of the call back, the call ends, in other words reply to the original channel Frequency (but the screen will tell).
Send Text / Image (photo) message function.	This handheld radio is equipped with send/receive text and Image (photo) function.	Start by pressing * and 5 to cancel by pressing # and 5	Remark 1 :as the remark 1 list above. Remark 2 :as the remark 2 list above. Remark 3: The message source can be Image Box / Text Message Box / Can MessageBox / or hand input Text Data.
Start two way radio built-in BT module with the external Earphone / PTT / Mic BT module Form a voice call connection function.		Start by pressing * and 6 to cancel by pressing # and 6	
Start the connection with the external Portable Console. This radio is supplied with an external tablet or I Pad (Device interconnection function for radio console.)		Start by pressing * and 7 to cancel by pressing # and 7	

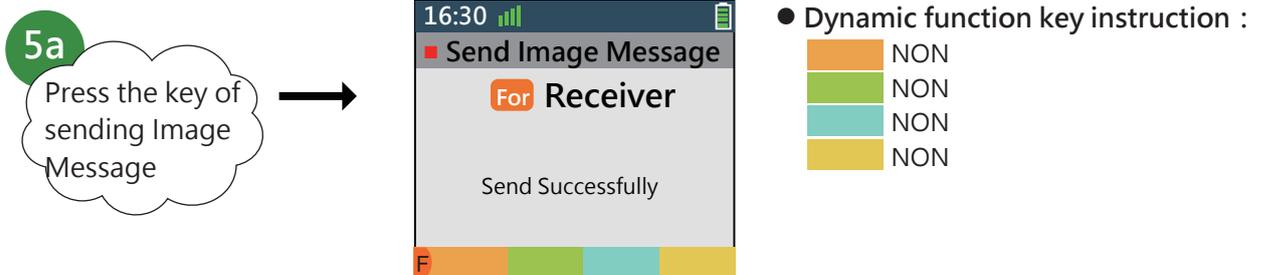
E13 Wireless Portable radio Address Book Function Operating Instruction - 1 / 1



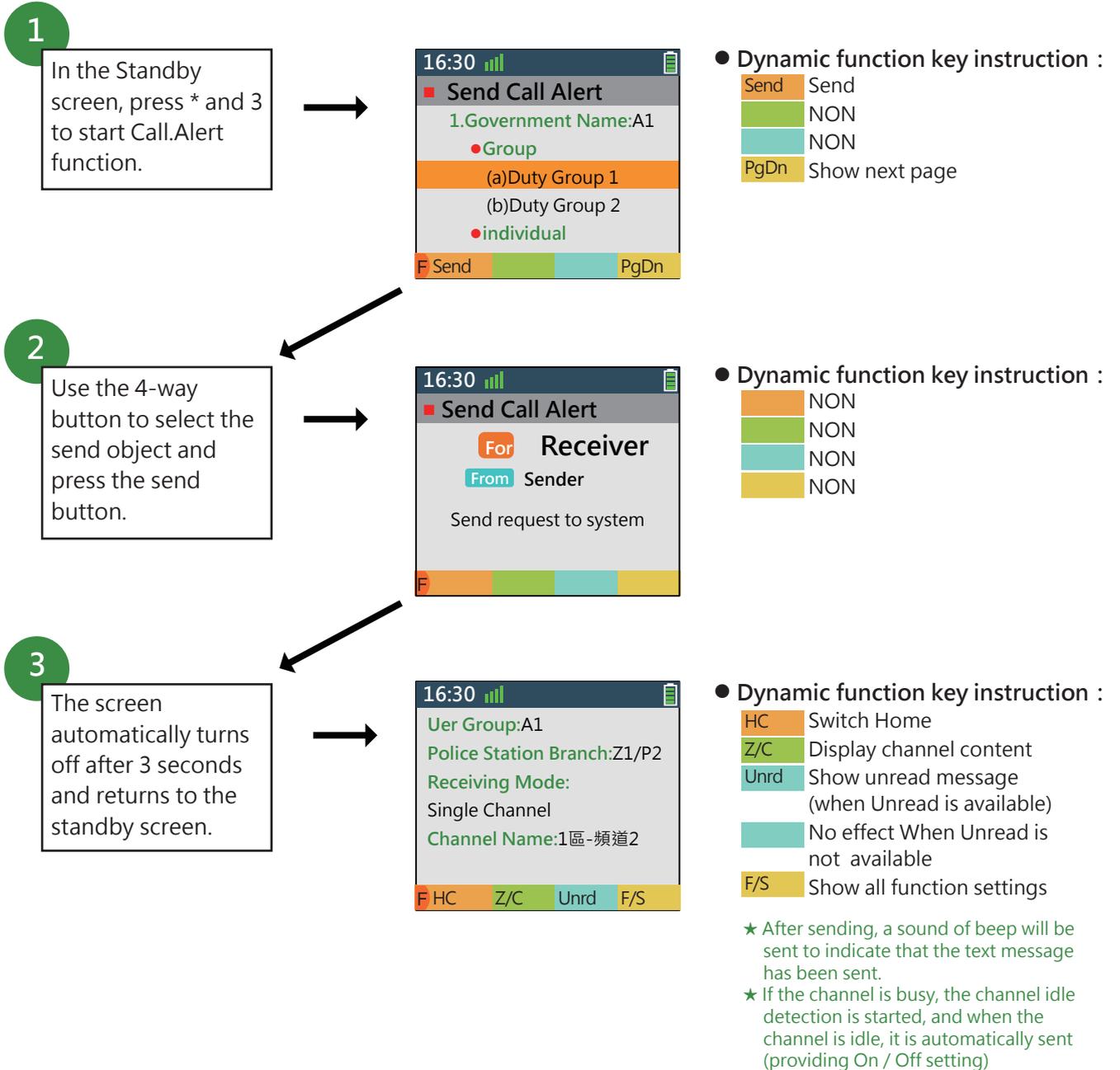
● The Second option: send Text Message



● Third option: Send Image Message



E14 Call Alert Function Operation Instruction - 1 / 1



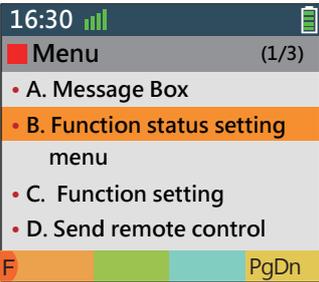
E15 Call Recording Function Operation Instruction - 1 / 1

1 The user sets the call recording parameters in advance on the PPS.

Call recording parameters set in the PPS include :

1. Call recording On / Off
2. Set the judgment conditions for each Call. Each Call contains a call back to the receiving group within the Hang Time. However, the call in Call cannot be increased without limit, so the settings are provided :
 - a. Consolidated call within Hang Time (default 10s).
 - b. The maximum times of each call I (default 99 times).

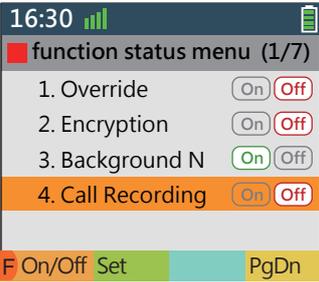
2 Press Menu on the Radio Standby screen.



● Dynamic function key instruction :

- NON
- NON
- NON
- PgDn Show next page

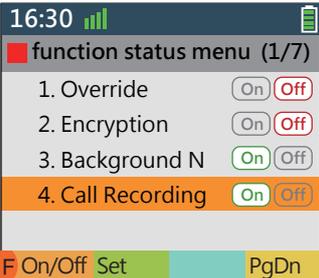
3 Use the 4-way button to find the option for Function Status and press the Enter button.



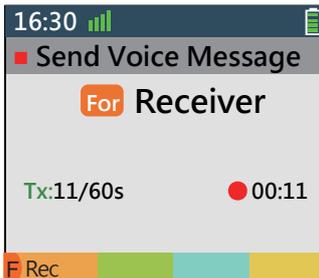
● Dynamic function key instruction :

- On/Off Switch on/off
- Set Setting
- NON
- PgDn Show next page

4 Use the 4-way button to find the option to call the call, press On - Off Soft Key



5 Start a voice call in the voice call path, and the recording will start automatically.



● Dynamic function key instruction :

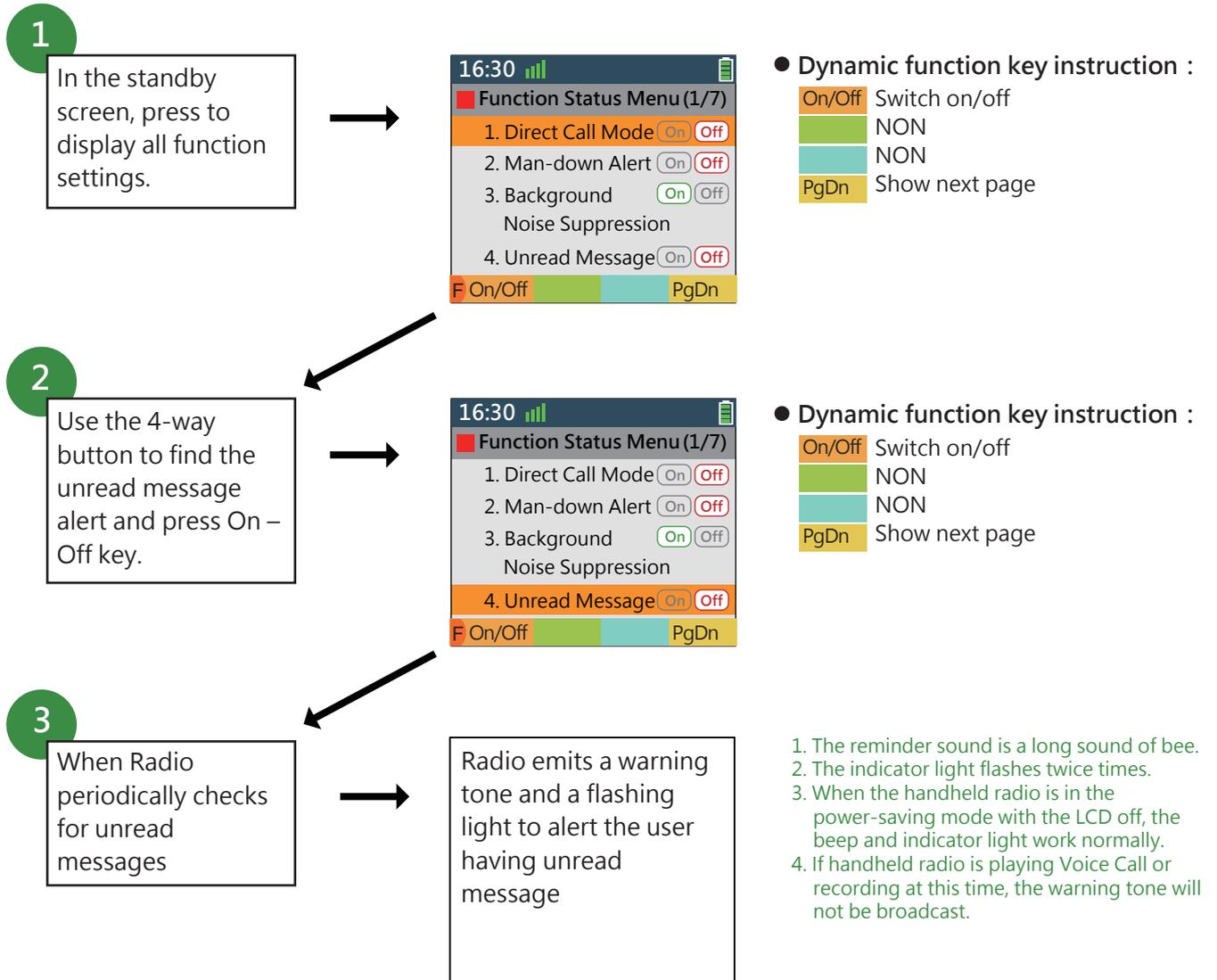
- Rec Turn on recording
- R.Off Turn off recording
- NON
- NON
- NON

E16 Send Text Messages Using Pre-burned Canned Message Operation Instruction
- 1 / 1

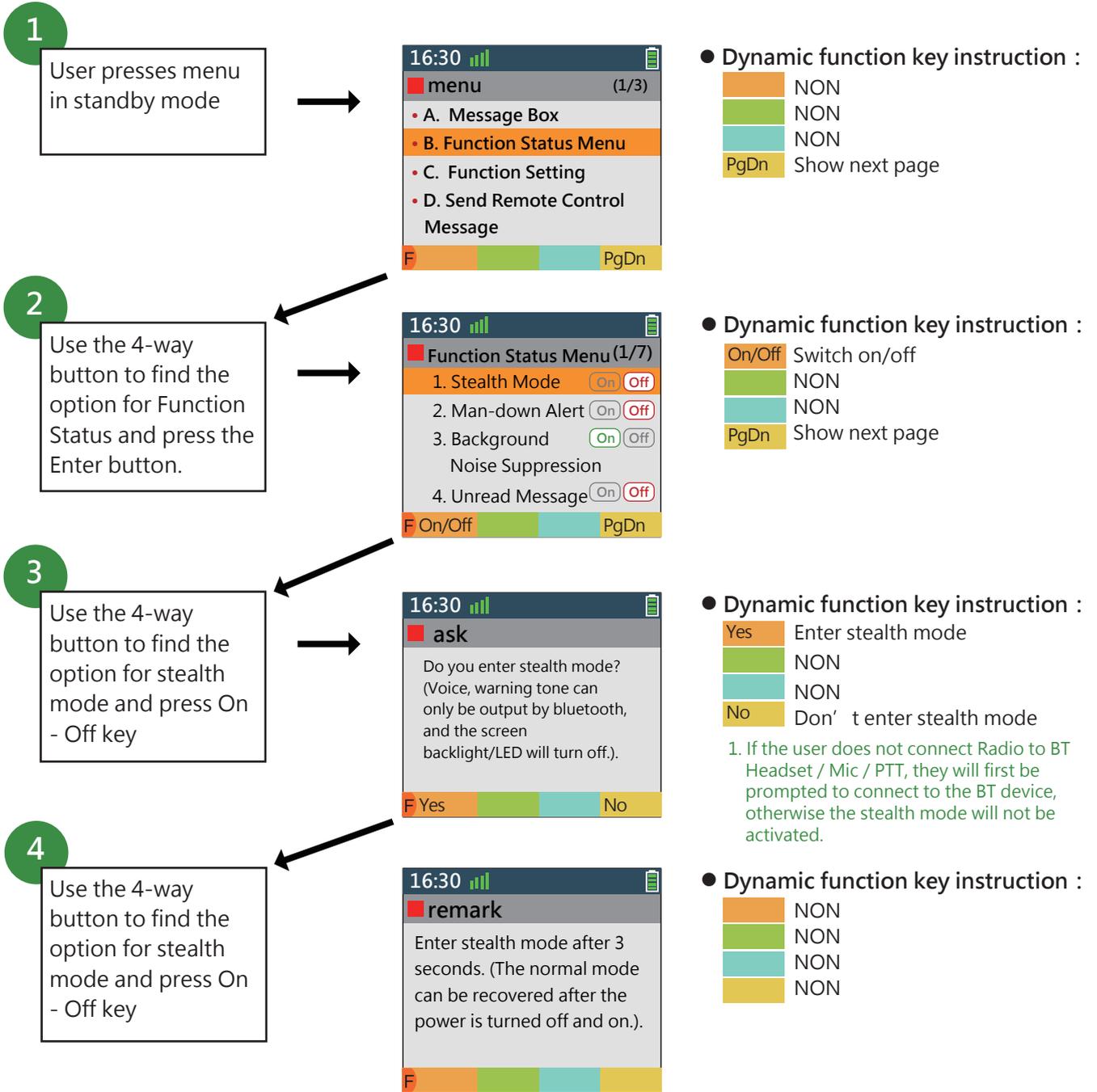
1

Send Canned
Message operation,
please (E3) Text
Message
transmission
function.

E17 Unread Message Alert Function Operation Instruction - 1 / 1



E18 Stealth Function Operation Instruction - 1 / 1



- The behavior of radio entering stealth mode is as follows :
 1. Turn off each UI output function, including :
 - a. LCD screen, LED, Keypad backlight, all external device indicators (if any) will not be lighted up.
 - b. each kind of Internal Speaker

Note 1. No action of Radio will affect the behavior described above before exiting stealth mode.

Note 2. When a BT headset or a wired headset is connected, the sound will be played back from the headset. Sounds include: Voice Call, Recording, Alert.
 2. Since the LCD is turned off, most of the buttons are disabled to prevent accidental touches, leaving only :
 - a. Power Knob → Stealth mode Power Off can cancel the stealth mode and then open the opportunity to resume normal mode (business staff's suggestion).
 - b. Channel Knob → can choose channel Knob
 - c. PTT Key → can be used normally
 - d. Emergency Key → 可以正常使用
 3. Various auto-running functions remain in normal operation

E19 Automatically Report the Current Position Coordinate Function to the Specified Commander, Group or Control Center - 1 / 1

1

Under the Standby screen, press * and 9 to start the automatic reporting of the radio position to the designated commander radio, control center, and group timing.



● Dynamic function key instruction :

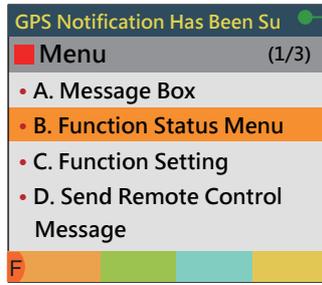
-  Close
-  NON
-  NON
-  NON

Before using this function, you need to set the following parameter settings :

1. Time interval between sending message and receiving m
2. Sending message channel (sending message frequency & protocol)
3. Receiver
 - a. Group
 - b. Console (Private)
 3. Commander (Private)

2

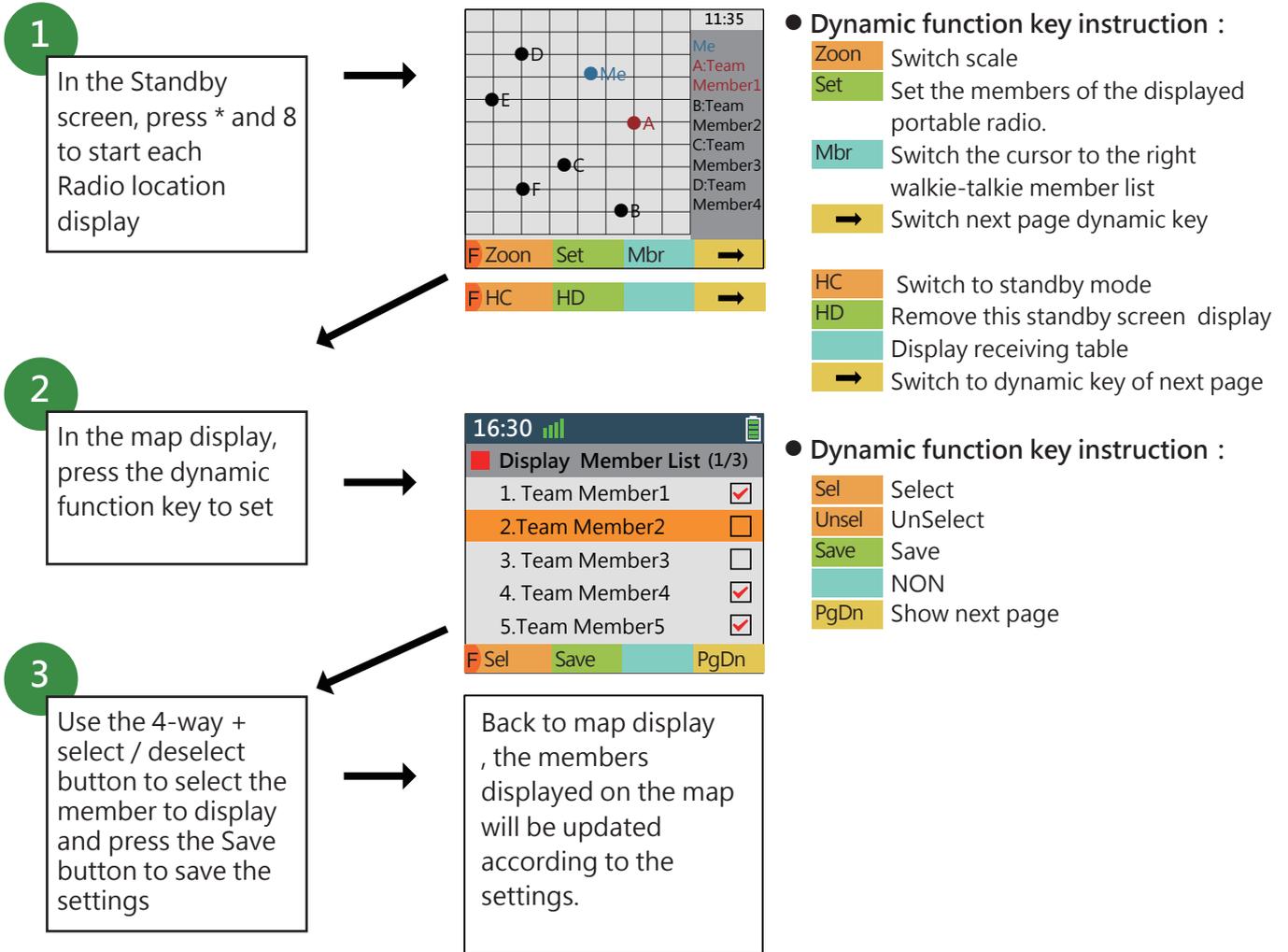
Send its own location at regular interval to designated commander radio, control center, the group.



Because GPS Inform is sent regularly, if the user keeps being informed of the sending result by warning interface every time, it will disturb the handheld radio's normal operation. Therefore, to report the result of the transmission in the Status bar, and the status become normally after 3 seconds. Bar display

The status column is designed as 2 Layer. Normally, the Icon is used to display various states (such as signal strength, battery status, etc.). When some frequently executed function results are notified and are not suitable for the text area, this position can be temporarily displayed. Restore after 3 seconds.

E20 Wireless Portable Radio Movement Record and Electronic Map (+) North Compass Function Operation Instruction - 1 / 1



Screen description

1. The screen shows a map centered on me

Note 1: If the GPS cannot be connected, the word "GPS cannot be located" is displayed to inform the user. Use the map display that last used this feature.

Note 2 : In order to increase the display area of the map, this screen does not appear statusbar.

2. remark the location of each Radio on the map

Note 1: Get the location of other Radios via the Receive Radio Location Reporting feature.

Note 2: Displayed Radio List Settings

3.The screen will display the grid and give the scale. Allows the user to roughly estimate the distance between each Radio.

4.Provide the function of adjusting the display scale.

5.The list of Radio members is displayed on the right side of the screen

a.select to view the detailed location information of a portable radio

b.Select to use the Radio as the center of the map to display 6. This map displays the function screen as a standby screen, providing the dynamic function keys of the standby screen.

Under different map scales, each grid width/height indicates a different distance. At present, the map can display 10 grids and 6 grids. Therefore, under the current 6 scales provided by Radio Map, the map range is as follows:

scale	Distance represented by the width of each grid	Actual distance of the map on the screen	The area of the map can be displayed on the screen	Suitable duty mode
1 : 12,500	50m	width 500m height 300m	0.15 Square kilometer	Walking (duty in the block)
1 : 25,500	100m	width 1000m height 600m	0.6 Square kilometer	Walking (duty among several blocks)
1 : 50,000	200m	width 2000m height 1200m	2.4 Square kilometer	Walking (large patrol)
1 : 100,000	400m	width 4000m height 2400m	9.6 Square kilometer	Walking / riding
1 : 200,000	800m	width 8000m height 4800m	38.4 Square kilometer	Riding
1 : 400,000	1600m	width 16000m height 9600m	153.6 Square kilometer	By car (long distance duty)

E21 Wireless Portable Radio Movement Record and Electronic Map (+) North Compass Function Operation Instruction - 1 / 2

1 In the Standby screen, press * and 8 to start each Radio location display

Dynamic function key instruction :

- Zoon** Switch scale
- Set** Set the members of the displayed portable radio.
- Mbr** Switch the cursor to the right walkie-talkie member list
- Switch next page dynamic key
- HC** Switch to standby mode
- HD** Remove this standby screen display
- Display receiving table**
- Switch to dynamic key of next page

2 Press the dynamic function key

Dynamic function key instruction :

- Sel** Select
- NON**
- NON**
- NON**

3 Use the 4-way button to find the option to display the movement track and press the enter key.

Dynamic function key instruction :

- On/Off** Switch on/off
- NON**
- NON**
- Save** Show next page

4 Press On - Off to set My Track to on.

Dynamic function key instruction :

- Zoon** Switch scale
- Set** Set the members of the displayed portable radio.
- Mbr** Switch the cursor to the right walkie-talkie member list
- Switch next page dynamic key
- HC** Switch to standby mode
- HD** Remove this standby screen display
- Display receiving table**
- Switch to dynamic key of next page

E21 Wireless Portable Radio Movement Record and Electronic Map (+) North Compass Function Operation Instruction - 2 / 2

● View Historical Track

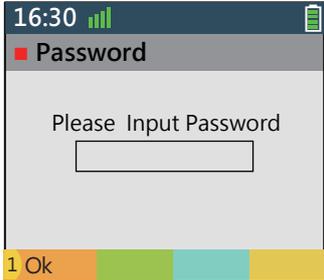
1 User press menu



● Dynamic function key instruction :

- NON
- NON
- NON
- PgDn Show next page

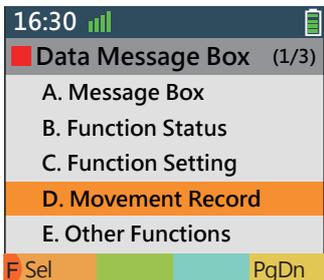
2 Use the 4-way button to find the options for the Data Message Box , press the confirm button



● Dynamic function key instruction :

- Ok Confir
- NON
- NON
- NON

3 Use the digits of the Keypad Layer Enter the password and press the enter key



● Dynamic function key instruction :

- Sel Select
- NON
- NON
- PgDn Show next page

4 Use the 4-way button to find the option to move the machine locally, press the enter button

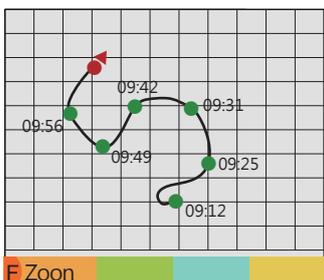


● Dynamic function key instruction :

- Sel Select
- Lock Lock record
- Unlk Unlock record
- Del Delete the record choosing
- PgDn Show next page

1. Each line shows the start and end time of the location record (if the record is still currently recorded, the end time shows Now).
 2. Because our handheld Radio design is based on social security/Homeland Security/Army-specific design, these users will have confidentiality requirements. Therefore, Allun's Data Box has a security lock, and the user needs to open the security lock. Read the contents of the Data Box.

5 Use the 4-way button to select the position track you want to view and press the Enter key.

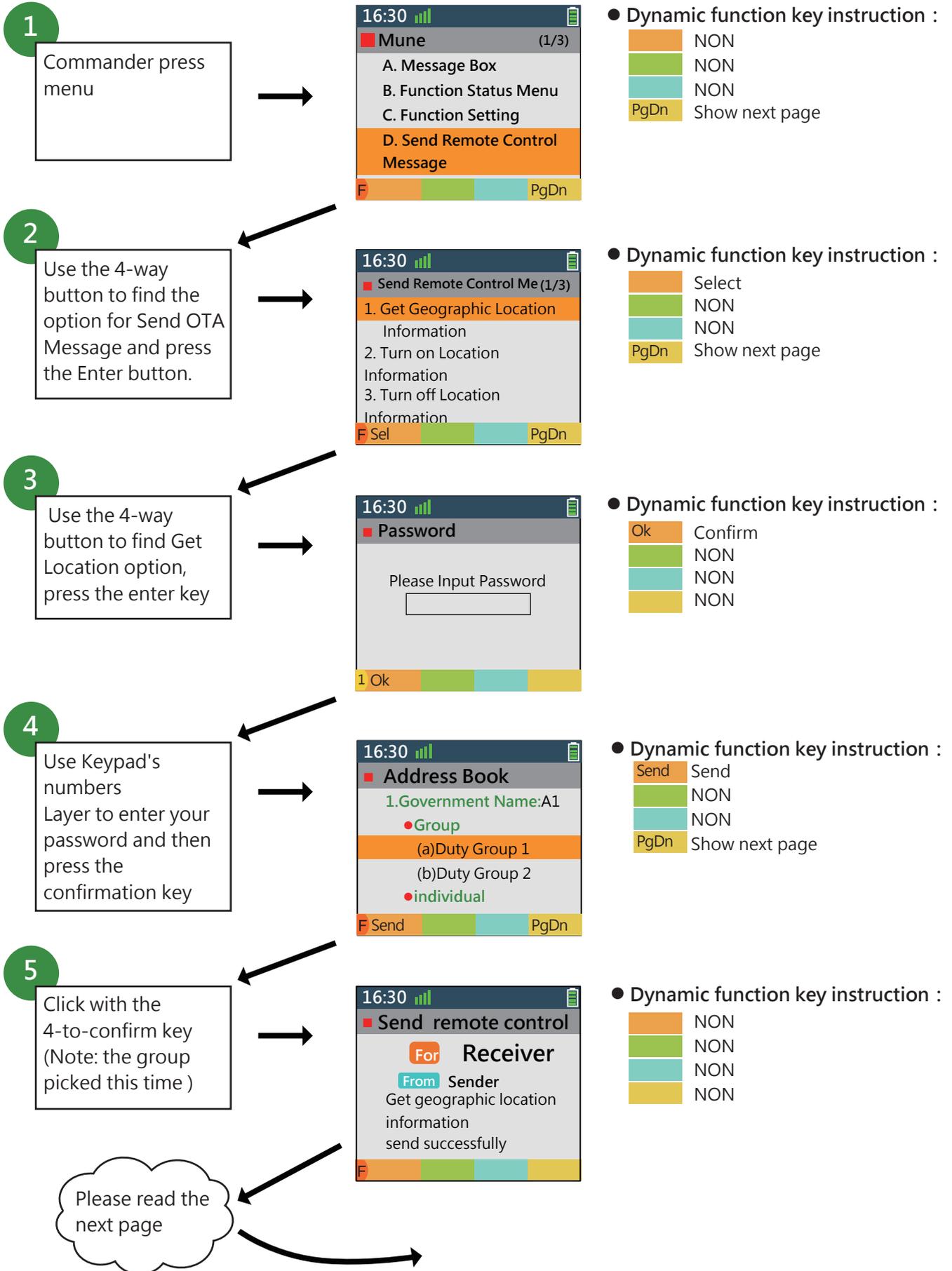


● Dynamic function key instruction :

- Sel switch scale
- NON
- NON
- PgDn Show next page

1. Status Bar and Title Bar are not displayed each time you can display more content for the map

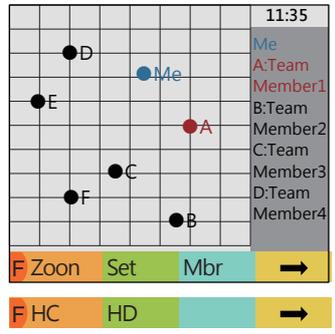
E22 Operating Instruction for Function of One-time Request for a Specific Group or Individual to Send out The GPS Coordinates of Their Location immediately - 1 / 2



E22 Operating Instruction for Function of One-time Request for a Specific Group or Individual to Send out The GPS Coordinates of Their Location immediately - 2 / 2

6

按 Map



- **Dynamic function key instruction :**
 - Zoon** Switch scale
 - Set** Set the members of the displayed portable radio.
 - Mbr** Switch the cursor to the right walkie-talkie member list
 - Switch next page dynamic key

- HC** Switch to standby mode
- HD** Remove this standby screen display
- Display receiving table
- Switch to dynamic key of next page

Details of this GPS Display screen, please read (E20) the position display functions of each portable radio

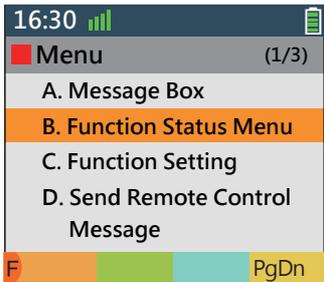
E23 Man-down Alert Function Operating Instruction- 1 / 2

1 User sets the Man Down parameter in advance in PPS

PPS The Man Down parameters set in PPS include :

1. Man Down On / Off
2. Man Down trigger conditions, divided into :
 - a. Tilt Only (Default)
 - b. No Movement
 - c. Tilt Or No Movement
 - d. Fall Down Only
 - e. Fall Down Then Tilt
 - f. Fall Down Then No Movement
 - g. Fall Down Then Tilt & No Movement
3. Tilt judgment conditions, including tilt angle and duration (s)
4. Still judgment conditions, including stationary duration (s)
5. Drop judgment conditions, including drop duration (ms)

2 Press menu in the handheld radio's standby screen of



● Dynamic function key instruction :

- NON
- NON
- NON
- PgDn Show next page

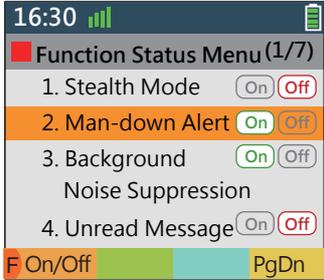
3 Use the 4-way key to find the option for Function Status, press the confirmation key



● Dynamic function key instruction :

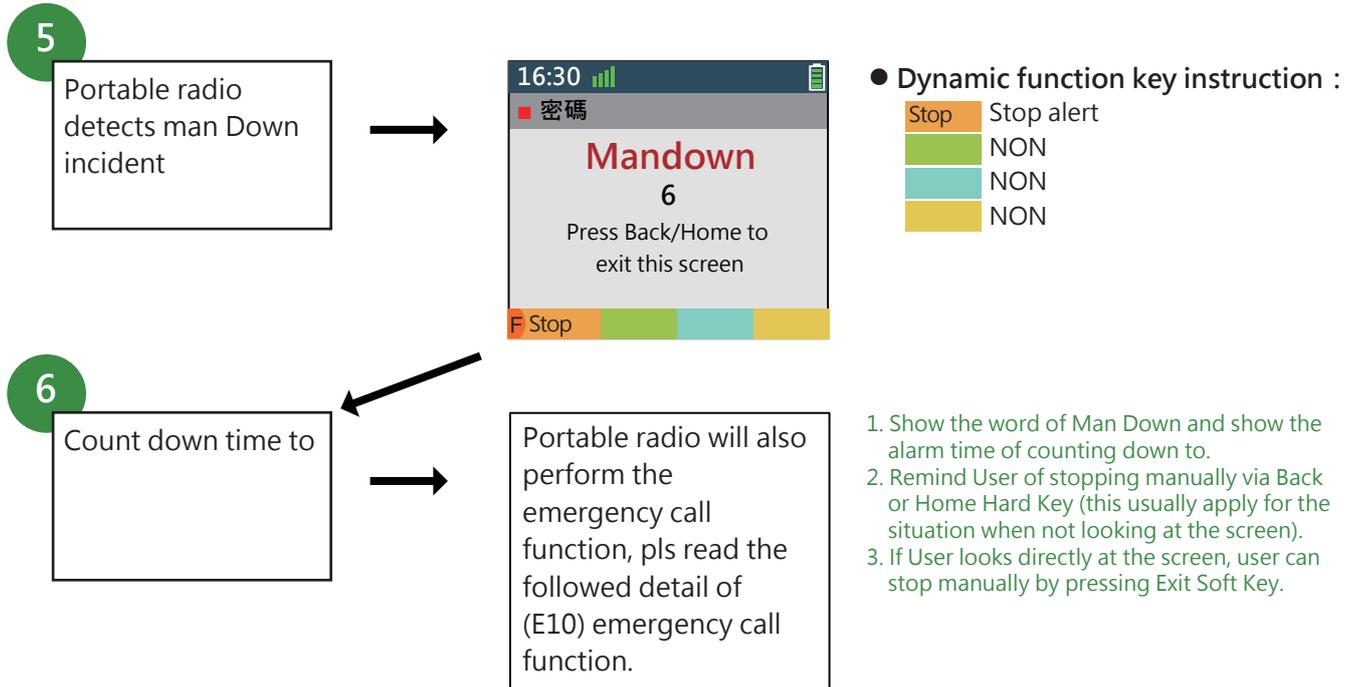
- On/Off Switch on/off
- Set Setting
- NON
- PgDn Show next page

4 Use the 4-way key to find the option of Mandown Alert and press On - Off Soft Key

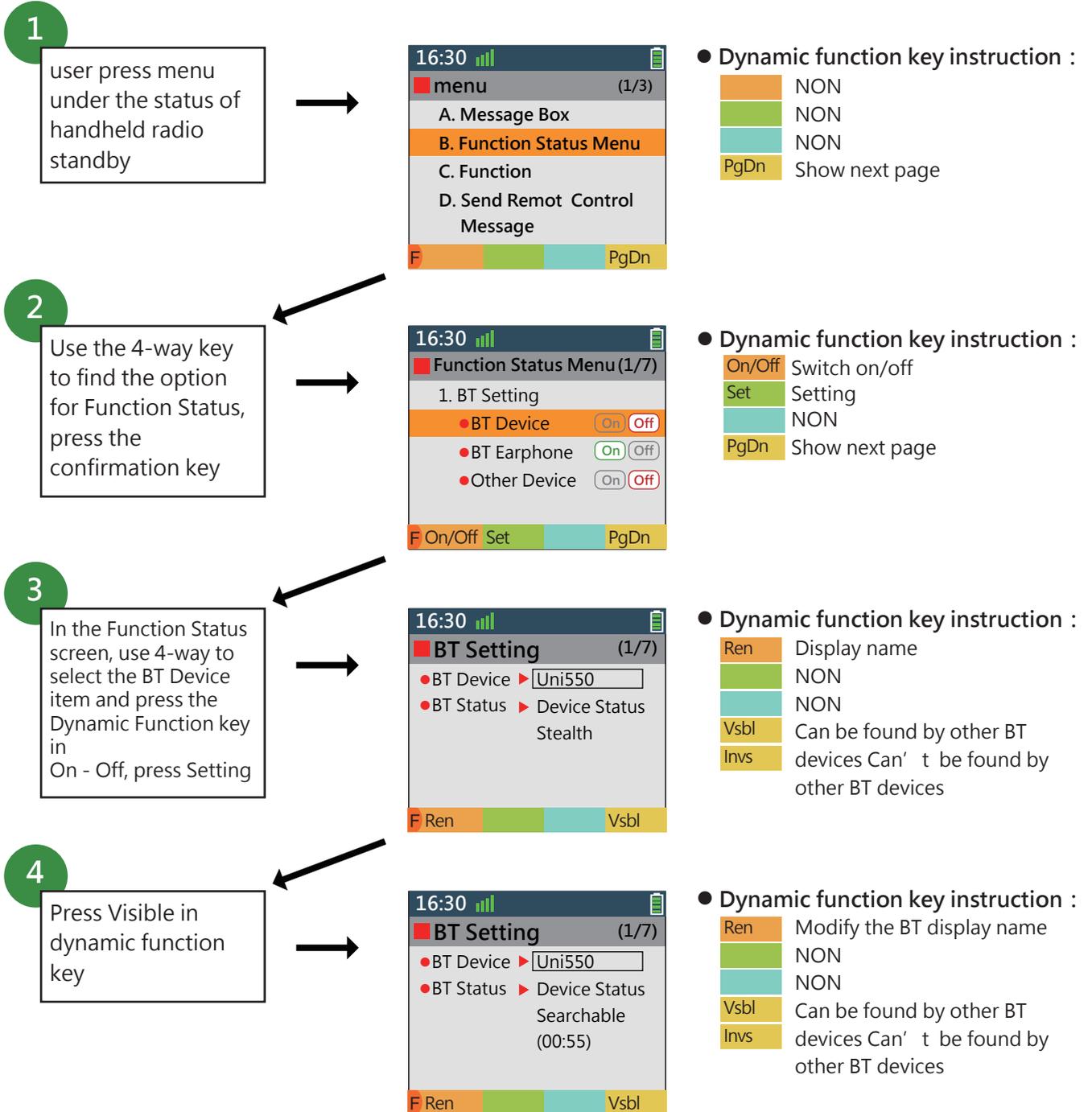


Please read the next page

E23 Man-down Alert Function Operating Instruction - 2 / 2



E24 Connecting External Control Centers Function Operation Instruction - 1 / 1



USB online :

1. USB Driver is installed automatically when you install Console on your Pad or PC.
2. Connect to Pad and Radio with USB Cable.
Console and Radio can communicate without additional settings.

E25 Operation Instruction for Function of Live Photo Shooting, Additional Location GPS Coordinates, Operator's Instructions for the Shooter's Voice Recording Profile - 1 / 1

1

User press menu under the status of handheld radio standby

2

Use the 4-way key to find the option to receive photos by bluetooth, press the confirmation key, press the confirmation key

3

Use the 4-way key to select the device to be connected and then press the connection in the dynamic function key

4

Pin verification is required to connect BT devices

5

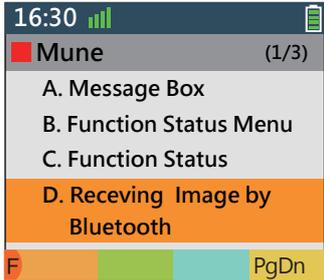
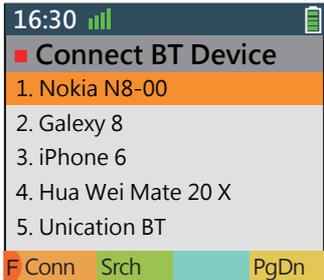
Enter the correct PIN with Keypad and press OK

6

Using an external connected device to input or choose one text file and then send to portable radio.

7

Click Save in the dynamic function key






● Dynamic function key instruction :

- NON
- NON
- NON
- PgDn Show next page

● Dynamic function key instruction :

- Conn Connect the BT device
- Srch Search the BT device
- NON
- PgDn Show next page

The screen shows the name of the BT device being searched

● Dynamic function key instruction :

- NON
- NON
- NON
- NON

● Dynamic function key instruction :

- Ok Confirm
- NON
- NON
- NOO

Switch to digital input automatically

● Dynamic function key instruction :

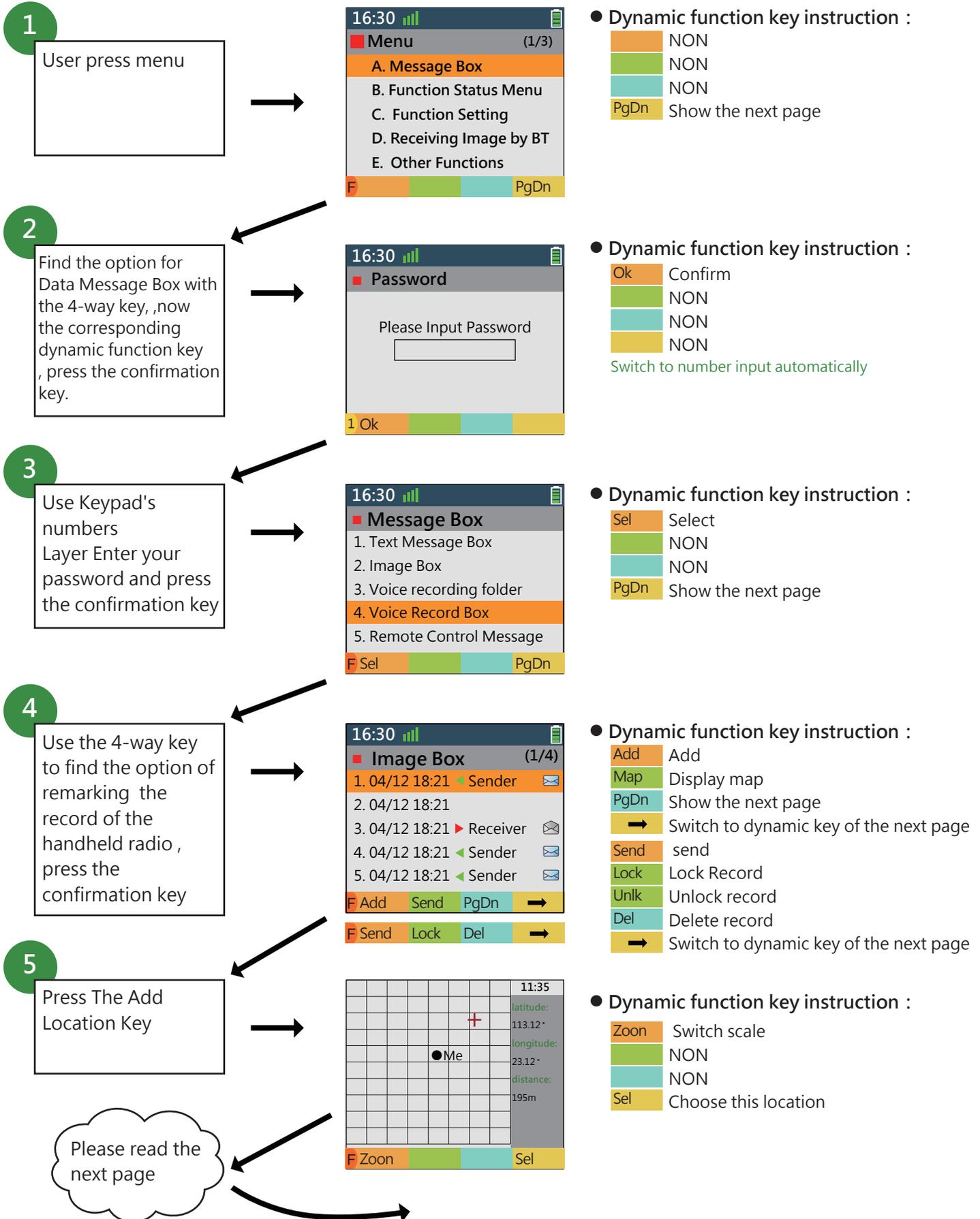
- NON
- NON
- NON
- NON

● Dynamic function key instruction :

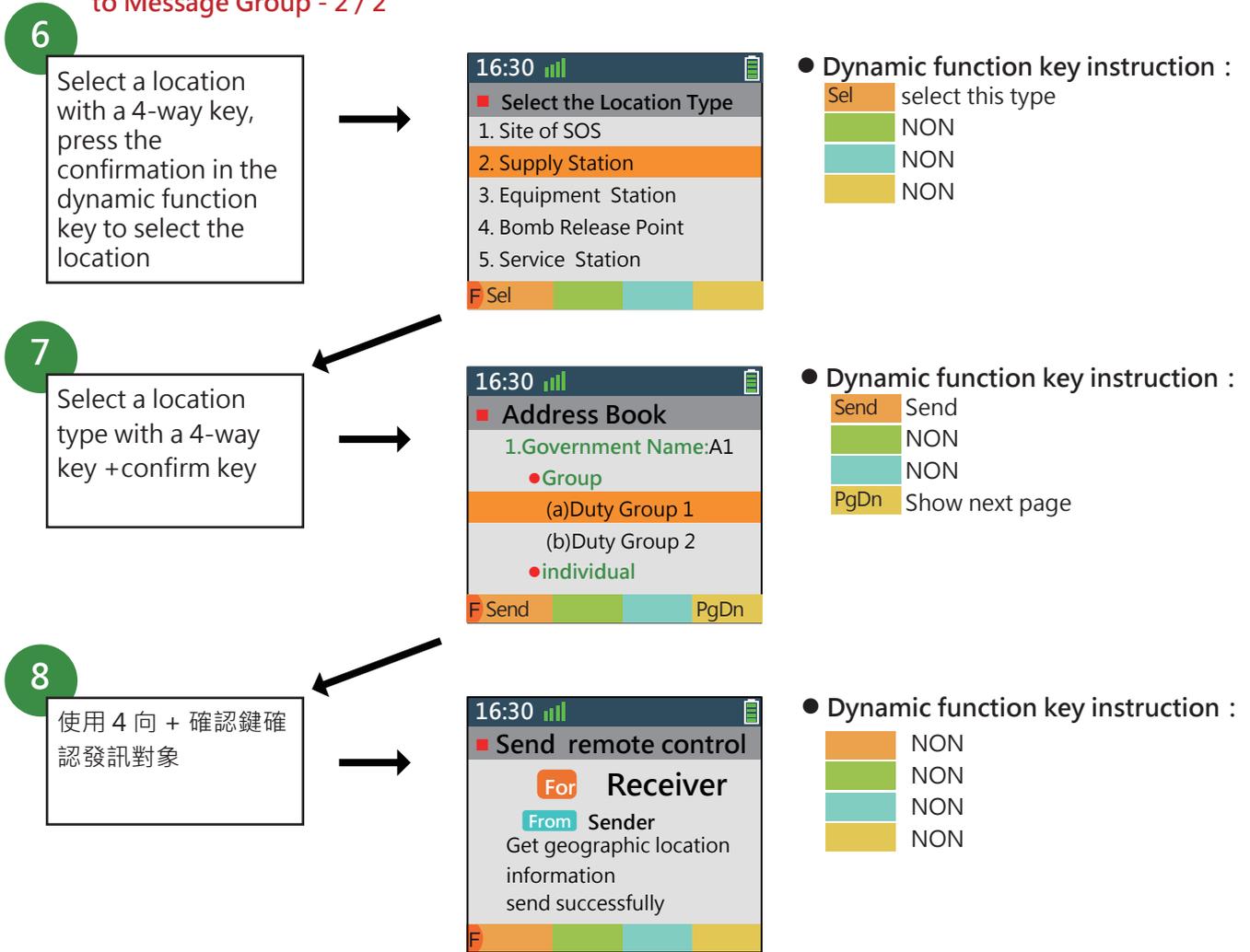
- Send Send
- Save Save
- NON
- View View

PART E. U4 Wireless Portable Radio Function Operation Instruction

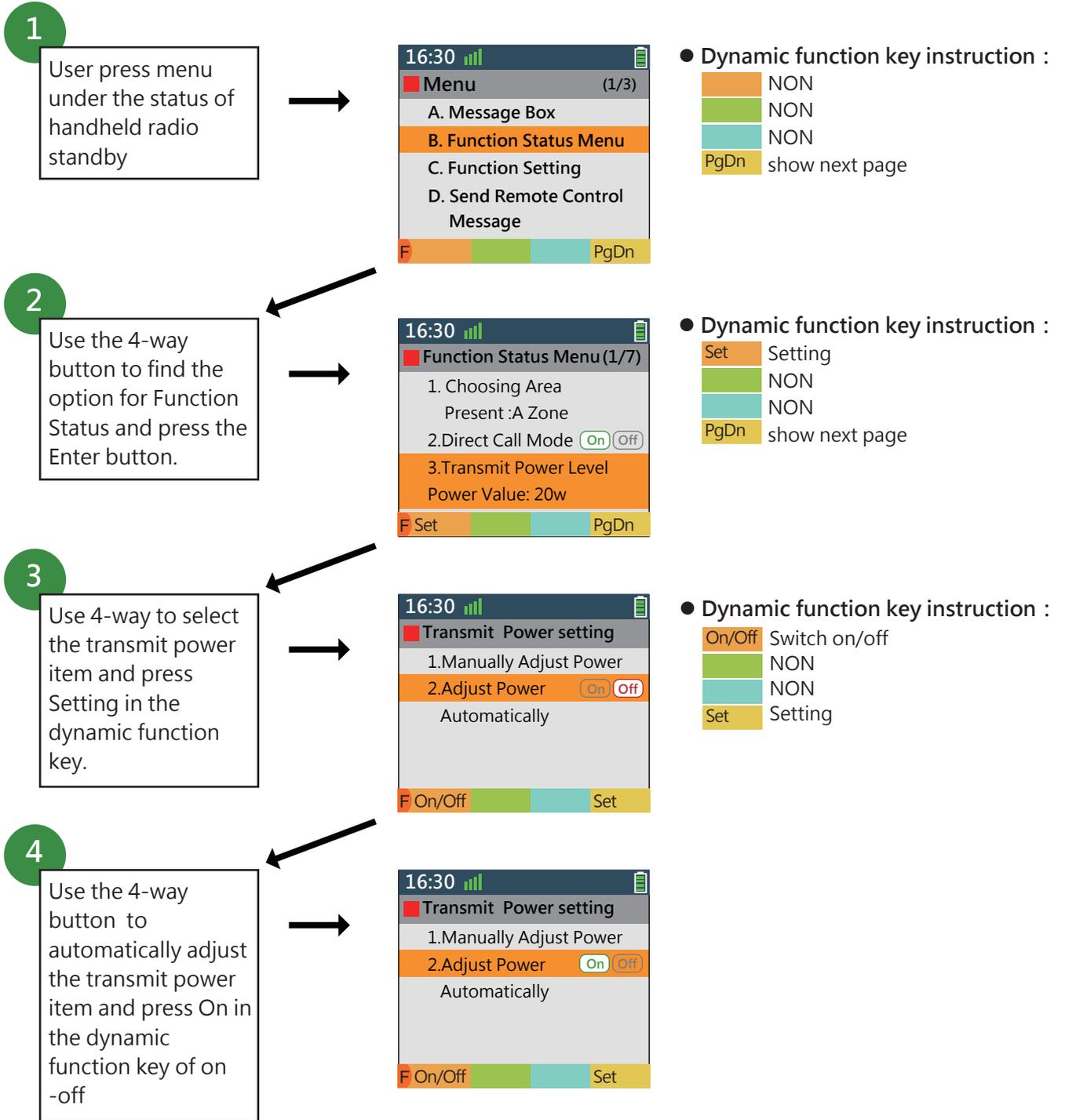
E26 Operation Instruction for Function of Showing the Target Point on the Map on The Portable Radio Screen and Transmit GPS Coordinates of This Target Point via Portable Radio Encrypted to Message Group - 1 / 2



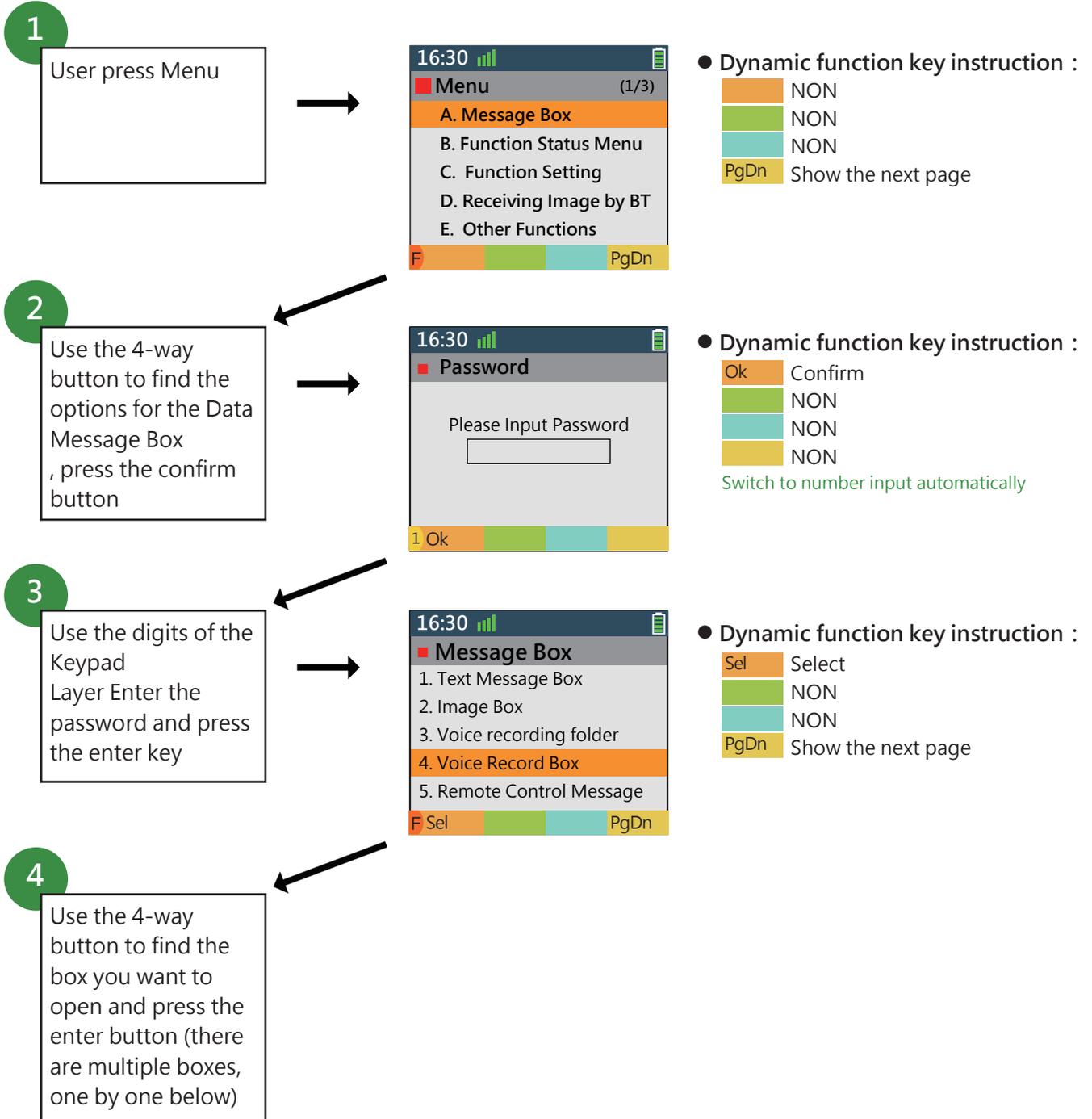
E26 Operation Instruction for Function of Showing the Target Point on the Map on The Portable Radio Screen and Transmit GPS Coordinates of This Target Point via Portable Radio Encrypted to Message Group - 2 / 2



E27 Operation Instructions for Function of Portable Radio adjusts the transmit power according to the voltage stored in the battery automatically - 1 / 1



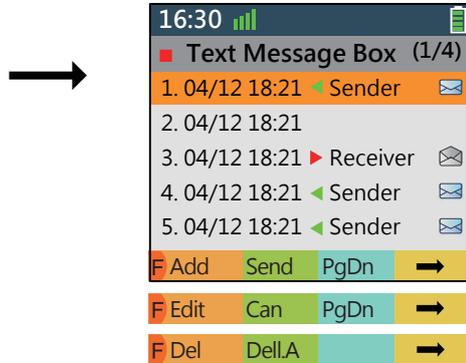
E28 Multiple Message Data Function Operation Instruction - 1 / 4



E28 Multiple Message Data Function Operation Instruction - 2 / 4

● **The First Option : Text Message Box**

1
In Data Message Box Home, use the 4-way button to find the Text Message Box, press OK

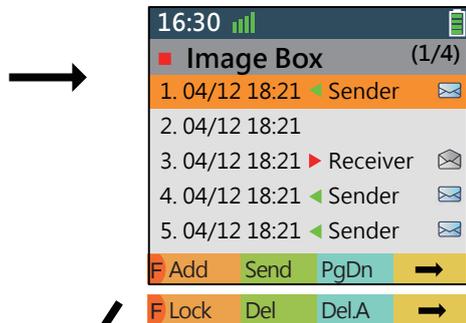


● **Dynamic function key instruction :**

- Add** Add
- Send** Send
- PgDn** Show next page
- Switch to dynamic key of the next page
- Edit** Edit
- Can** Display canned message
- Lock** Lock the record
- Unlk** Unlock
- Switch to dynamic key of the next page
- Del** Delete the record chosen
- Del.A** Delete all the record
- NON** NON
- Switch to the previous page dynamic key

● **The Second Option : Text Message Box**

1
In Data Message Box Home, use the 4-way button to find the Image Message Box, press OK



● **Dynamic function key instruction :**

- Add** Add
- Send** Send
- PgDn** Show next page
- Switch to dynamic key of the next page
- Lock** Lock the record
- Unlk** Unlock
- Del** Delete the record chosen
- Del.A** Delete all the record
- Switch to dynamic key of the next page

2
Use the 4-way button to find the photo you want to view and press OK

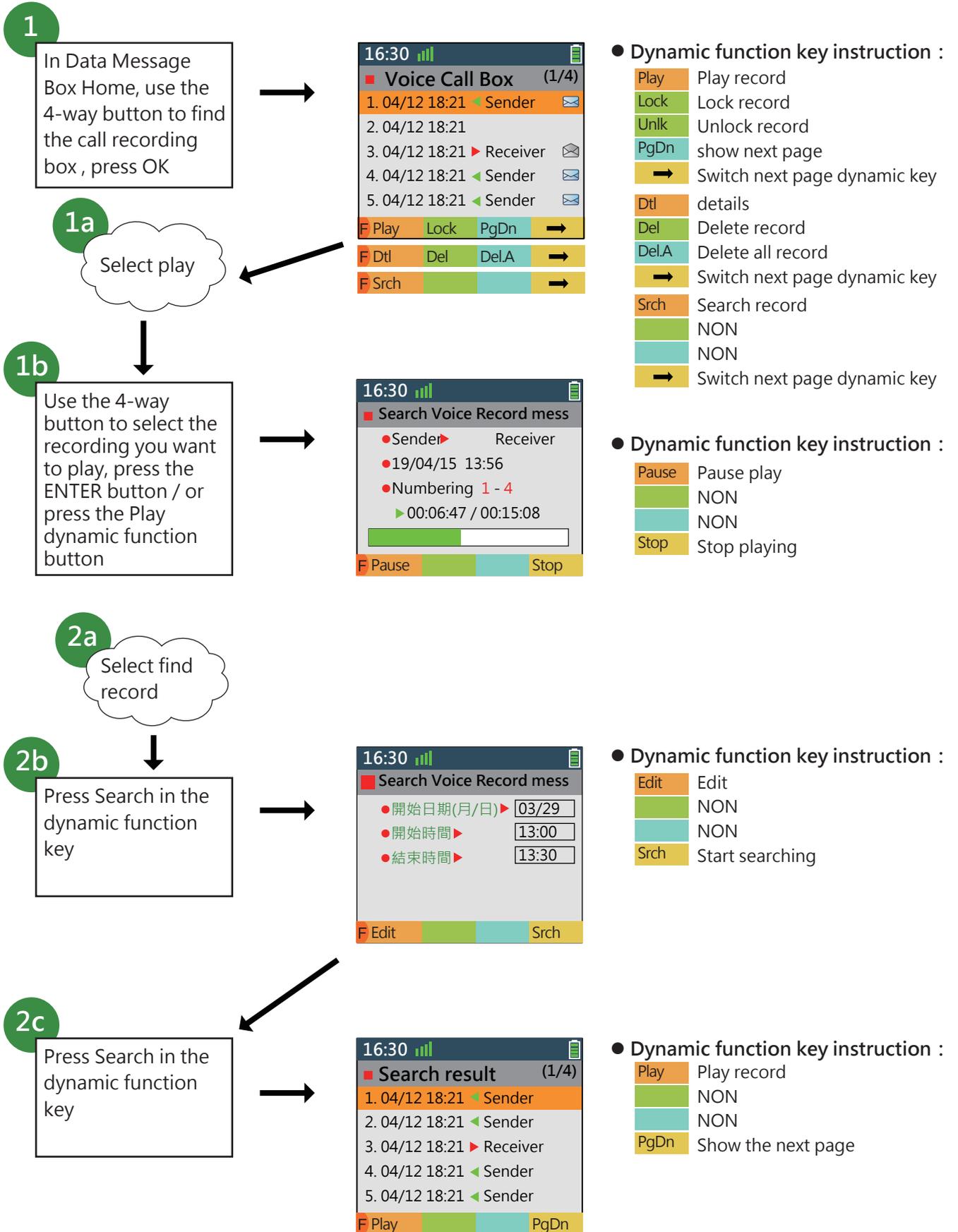


● **Dynamic function key instruction :**

- Voice** Play voice
- Map** Display map
- Send** Send
- Switch to dynamic key of the next page
- Edit** Edit
- Del** Delete record
- Dtl** Check details
- Switch to dynamic key of the next page

E28 Multiple Message Data Function Operation Instruction - 3 / 4

● **The Third Optio Box Voice Record Box**



E28 Multiple Message Data Function Operation Instruction - 4 / 4

● **The Fourth Box, Portable Radio Movement Record Box**

1

In Data Message Box Home, select the local mobile record, press OK

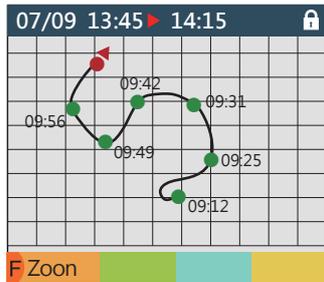


● **Dynamic function key instruction :**

- Sel** Select
 - Lock** Lock the record
 - Unlk** Unlock Record
 - Del** Delete the record choosing
 - PgDn** Show next page
1. Each line shows the time of the location record from starting to ending (if the record is still currently recorded, the end time shows Now).
 2. Because our handheld Radio design is based on social security/Homeland Security/Army-specific design, these users will have confidentiality requirements. Therefore, Allun's Data Box has a security lock and users need to open the security lock to read the contents of the Data Box.

2

Use the 4-way button to select the position track you want to view and press the Enter key.



● **Dynamic function key instruction :**

- Zoon** Switch scale
 - NON** NON
 - NON** NON
 - NON** NON
1. Every time you want to display more content for the map, the Status Bar and Title Bar are not displayed.