

Gratitude!

Thank you for buying Suicom UV King FM transceiver. This dual band transceiver will bring you reliable, clear and efficient communication service. Please read this manual carefully before using this transceiver in order to let you fully understand the functions, operation and maintenance method of this transceiver.

This manual is applicable to:

Suicom UV King: Dual Band FM Transceiver

Announcement

The following advices will help you better understand and operate this transceiver. Please read carefully in order to let you operate Suicom UV King series transceiver efficiently and safely.

- Do not short-circuit battery terminals or discard the batteries in fire, do not take the case of batterypack apart by nonprofessional person.
- The charging temperature should be between 0°C-40°C, it may affect the correct charging if beyond this range.
- The battery's using time will be shortened even being charged correctly, that means the battery's lifespan has come to the end, please replace a new one.
- In order to avoid the unnecessary radio damage, please use the antenna, batteries and chargers which authorized by Suicom company.
- Please turn off the radio in explosive environments(Do not do any operation to the transceiver.) in order to avoid the explosion, for example: in gas stations, blasting areas, the region with detonators and in aircraft etc.
- Please do not place the transceiver in extremely dusty, humid places or areas where it's easy to fall.
- Do not place the transceiver near the heating source or expose it under the direct sunlight.
- Please do not use the transceiver to transmit for a long time, it may be too hot and may hurt person, or even damage the machine.

Announcement

- Please cover the dust cap if do not use the earphone etc accessories(if have the equipments).
- The keyboard, control knob and transceiver's case will easily be dirty after long time use, please remove it from the control knob, then use neutral detergent (do not use strong chemical corrosion) and wet cloth to clear the transceiver's case. It will damage the transceiver's case if using the detergents, alcohol, spray or petroleum product etc chemicals.
- For newest updates and technical supports, please see <http://www.suicom.net>

New Update:

FUNC Key: Press to shift frequency band. Press and hold for 2 seconds will lock / unlock the keypad.

ALARM Key: Press to alarm.

RADIO Key: Press to start Fm RADIO, Press EXIT to auto search.

A/B Key: Alternate between the upper / lower screen-line band.

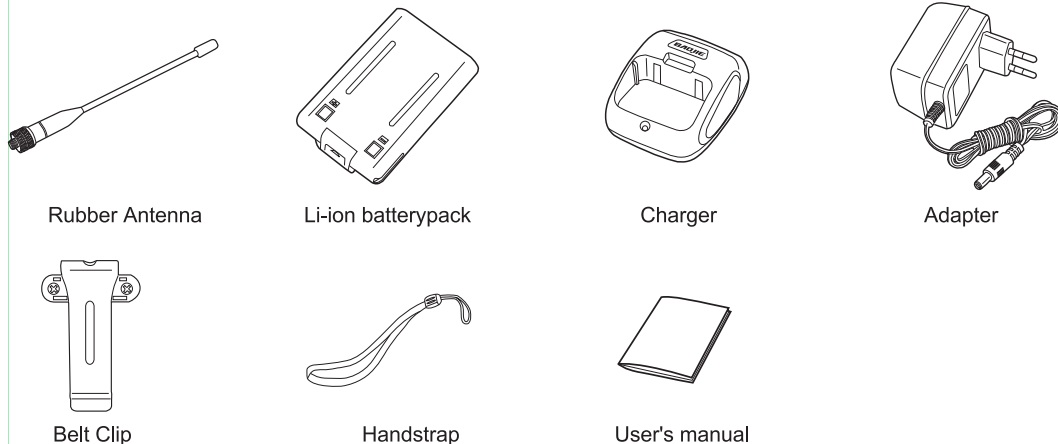
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Unpacking and checking equipments

Please unpack the transceiver carefully from the box. We recommend that you confirm the items which list below before discarding the packing material. If any items are missing or have been damaged during shipment, please contact with your nearest Suicom dealer immediately.

Supplied accessories



Charging operation

If the battery indicator is like that , it means the battery is out of the power, please charge it. Please use Suicom authorized charger, the indicator light of the charger can show you the charging state.

INDICATOR LIGHT DISPLAY	STATUS
RED	CHARGING
GREEN	CHARGING COMPLETED

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Please charge the battery pack as follow

- Please insert the adapter into the AC plug;
- Please insert the DC plug of the adapter into the DC socket which locates in the back of the charger;
- Please insert the battery pack or the transceiver with the battery pack into the charger;
- Please confirm that the battery pack is well connected with the contact piece, charging starts when light turns red;
- Charging completed when light turns green after being charged about 3 hours. You can take the battery pack away or use the transceiver with the battery pack.

Getting acquainted(Suicom UV King)

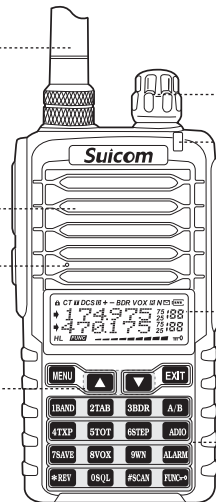
Description of transceiver

Antenna

Loudspeaker

Microphone

Up/Down key



Power switch/
Volume control

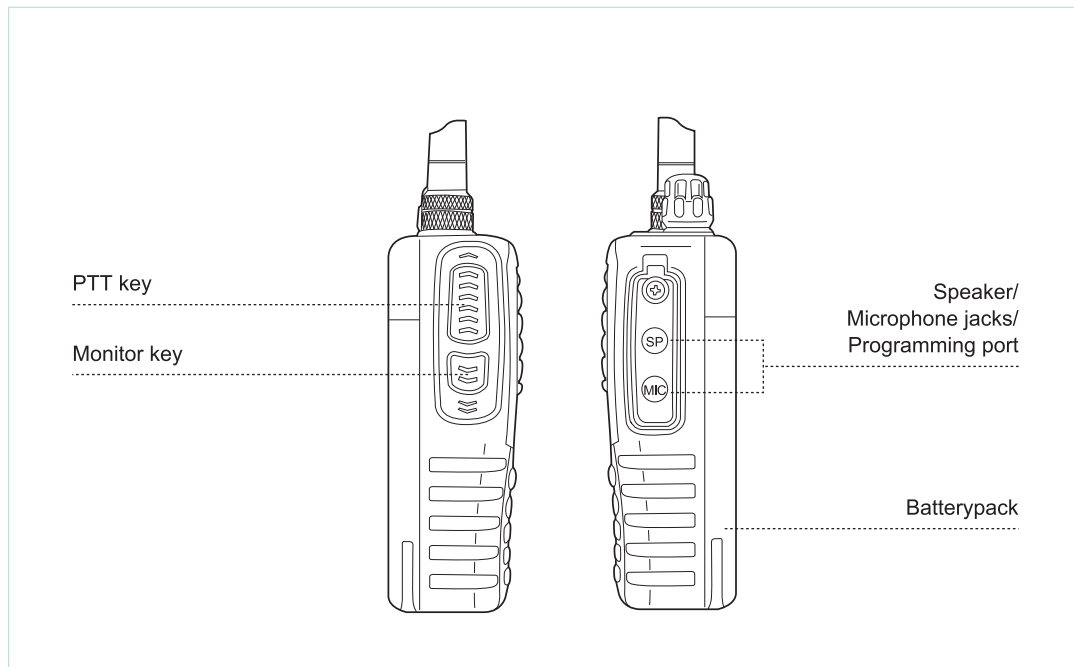
LED Indicator

LCD display

Number key

03

04



Antenna: This is rubber antenna used for receiving and transmitting signal.

LED Indicator: The light turns red during transmitting and turns green when signal received.

Power switch/Volume control: Turn on the radio clockwise until you heard the "click"; turn off the radio anti-clockwise until you heard the "click".

Adjust the volume by turning the switch left and right.

LCD display: Display the transceiver's working state.

Microphone: Audio input.

Loudspeaker: Audio output.

Up/down key: To change the display frequency, menu number and menu contents by up/down key.

Number key: Used for input the frequency and functions.

PTT transmitting key: The transceiver is in transmitting state when you press the PTT key; it returns to the receiving state when you release the PTT key.

Monitor key: You can hear the signal or noise from the channel which you selected in receiving state when you press monitor key.

Speaker/ Microphone jacks/Programming port: Used to connect with the earphone or programming cable, then you can do the operation of the programming.

Battery pack: Supply power for the transceiver.

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Brief introduction of functions

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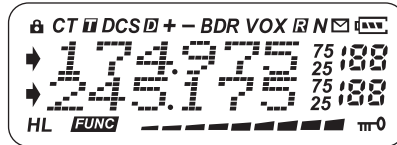
1. Frequency Range
 - FM 87-108MHz(Receiving)
 - VHF 136-174.995MHz(Receiving & transmitting)
 - UHF0 230-250.995MHz(Receiving & transmitting)
 - UHF1 350-390.995MHz(Receiving & transmitting)
 - UHF2 400-470.995MHz(Receiving & transmitting)
 - UHF3 480-520.995MHz(Receiving & transmitting)
- Note: There are only two of the five frequency bands supplied in this transceiver. If you want to use other bands, please contact the local Suicom distributor.
2. Operate mode: Frequency mode, channel mode
3. Digital FM radio
4. Dual frequency display
5. U&V, U&U, V&V, V&U dual band working mode can be selected arbitrarily
6. Dual frequency standby in any bands
7. DTMF signaling system
8. Alarm(Remote Alarm and Local Alarm)
9. All calls, group calls and selective calls
10. Inspection, Monitor, Stun and Kill
11. 50 Groups CTCSS and 105 Groups DCS
12. Non-standard CTCSS(Can be edited arbitrarily from 60Hz and 259.9 Hz)
13. Transmitting & receiving CTCSS or DCS can be set respectively
14. High/Low power can be changed by pressing alarm key during transmitting
15. Time out timer
16. 5 frequency steps (5K, 6.25K, 10K, 12.5K, 25K)
17. Variable battery save modes
18. Vox function
19. Channel bandwidth selectable (Wide/Narrow)
20. Busy channel lockout
21. Low voltage alarm audibly and visually

22. Auto backlight
23. Auto/Manual keyboard lock
24. Three color backlight displays selectable in transmitting, receiving and standby
25. Frequency, channel number and channel name modes
26. ANI code display(caller ID)
27. Calling ring function
28. DTMF sidetone switch(DT-ST, ANI-ST, DT+ANI)
29. 3 kinds of scan modes(TO/CO/SE)
30. PTT-ID Function(BOT/EOT/BOTH)
31. Multi-kind mutemodes (QT/AND/OR)
32. Offset frequency direction selectable in frequency mode
33. Offset frequency(can be set between 0 and 69.9875 MHz in frequency mode)
34. Operating MENU items directly through keyboard
35. Frequency, channel and menu fast search function
36. Channel parameter can be edited and stored in frequency mode
37. 128 groups of memory channels
38. Reverse frequency function(Receiving & transmitting frequency can be interchanged)
39. U/V receiving and transmitting supports working with inter-band repeater
40. Wire clone function
41. Computer programmable


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LCD display


The following table will introduce the meaning and setting method of all kinds of the indicators on the screen. Please read carefully, and you will find it is useful.






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 It indicates the transmitting signal strength when transmitting, and it indicates the receiving signal strength when receiving.

188 In channel mode, it indicates the channel number when in frequency and channel name display mode. It indicates the current menu order when in menu setting mode.

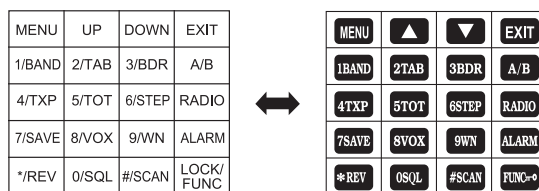
 It displays the receiving and transmitting frequency, FM radio frequency, menu items, menu value and other working modes.

Indicators	Description of functions
	Reserved for new functions
CT	This is CTCSS indicator, it is transmitting CTCSS signal when it appears during transmitting.
	It means the optional signal is available when it appears (This transceiver only has the DTMF optional signal).
DCS	This is DCS indicator, it is transmitting DCS signal when it appears during transmitting.
	Reserved for new functions
+	It means the transmitting frequency is the receiving frequency plus the offset frequency when it appears in frequency mode, and offset frequency can be set in Menu 31. If it appears together with the " - ", in channel mode, it means the receiving and transmitting frequency is different in current working channel.
-	It means the transmitting frequency is the receiving frequency minus the offset frequency when it appears in frequency mode, and offset frequency can be set in Menu 31. If it appears together with the " + ", in channel mode, it means the receiving and transmitting frequency is different in current working channel.
BDR	It means the dual band standby function had been set if it displays in static, but has not been activated.; it is on dual standby when it flickers and it is standby at two frequencies which display on the screen at the same time.










09

Indicators	Description of functions
VOX	This means the VOX function has been started, starts transmitting when the volume of the microphone has reached the preset value.
R	The receiving and transmitting frequency interchanges in frequency/channel mode.
N	It appears when the current working mode is narrow bandwidth.
✉	Reserved for new functions
	It displays the current battery capacity, the outer-frame of the battery flickers when the battery is about to exhaust, then you can not transmit.
🔒	It appears when the keyboard is locked, unlock the keyboard by long press LOCK/FUNC key.
H	The current transmitting power is high.
L	The current transmitting power is low.
FUNC	This pre-operation prompt of doing A/B switch, startup FM radio, distant urgency alarm.
➡	It indicates the current transmitting, receiving and standby working band.

Keyboard operation



MENU	Description of functions
	This is start key to enter into the menu setting mode, press this key means to confirm the current menu items in menu setting mode.
	In frequency mode, to change the current receiving frequency by UP/DOWN key according to the frequency step which had been set when in standby mode; in channel mode, to change the channel by UP/DOWN key when in standby mode; press more than 2 seconds will fast go forward or backward if you want to change the setting of menu items and value. To change the scan direction in scan mode.

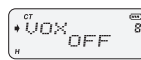
MENU	Description of functions
	This is Return/ Clear key, press this key to exit the menu setting when in menu setting state; to clear the last input number when in frequency, channel and FM radio frequency input state.
	Reverse frequency key, receiving and transmitting frequency interchange.
	Start up the frequency or channel scan by pressing more than 2 seconds constantly.
	Press this key after "FUNC" appears to switch A/B band display and working band.
	Start up FM radio by pressing this key after "FUNC" appears.
	Start up remote urgency alarm by pressing this key after "FUNC" appears.
	Start up A/B switch, FM radio and alarm functions by short-pressing this key; to lock keyboard by long-pressing for more than 2 seconds, or unlock the keyboard if the keyboard had been locked.
 	Number keys, used to input frequency, channel number, menu items and menu value. The other menu items mean you can directly set by pressing those keys when in menu setting mode.



Menu operation


Menu system is an operation system which used for setting parameters, to meet everyone's different preference and using purpose through setting from menu.

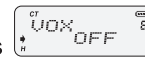
How to operate



In standby mode, press [], and the screen displays




Press []/ [] to change the menu items, you can also input menu item number directly through keyboard, then the lower indicator on the screen will flicker and display the original menu setting.

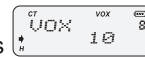
Press [] again, arrow cursor points to the menu setting, and the screen displays



Press []/ [] to change the menu setting, also you can input your setting directly through keyboard.

Press [] again to confirm, the corresponding function indicators will appear on the screen, the

arrow cursor points again to the menu item at the same time, and the screen displays



Then you can continue to set other menus, you can also press [] to return to the standby mode.

Brief introduction of functions

Menu order	Function name	Function Description	Optional settings	Menu order	Function name	Function Description	Optional settings	
0	SQL	Squelch level	0,...,9				12.50K	
1	BAND	Band selection	VHF		7	SAVE	Battery save mode	25.00K
			UHF0	OFF				
			UHF1	1:1				
			UHF2	1:2				
			UHF3	1:3				
2	TX-AB	Transmitting selection in dual standby	OFF	8	VOX	VOX transmit	1:4	
			A				OFF	
			B				1,2,...,10	
3	BDR	Dual frequency standby	OFF	9	WN	Bandwidth	WIDE	
			ON				NARR	
4	TXP	Transmitting power	HIGH	10	R-DCS	Receiving DCS	OFF	
			LOW				D023N,...,D754I	
5	TOT	Time-out-timer	15,30,...,600	11	R-CTCS	Receiving CTCSS	OFF	
6	STEP	Frequency step	5.00K				67.0Hz,...,254.1Hz	
			6.25K					
			10.00K					

Menu order	Function name	Function Description	Optional settings	Menu order	Function name	Function Description	Optional settings
12	T-DCS	Transmitting DCS	OFF	20	RING-T	Ring time	OFF
			D023N,...,D754I				1,...,10
13	T-CTCS	Transmitting CTCSS	OFF	21	DTMFST	DTMF sidetone switch	OFF
			67.0Hz,...,254.1Hz				DT-ST
14	ABR	Auto backlight	OFF				ANI-ST
			1,2,3,4,5				DT+ANI
15	BEEP	Beep prompt switch	OFF	22	S-CODE	Signal information code	1,...,8
			ON				TO
16	ANI-SW	ANI code switch	OFF	23	SC-REV	Scan mode	CO
			ON				SE
17	OPTSIG	Optional signal	OFF				24
			DTMF	BOT			
18	SPMUTE	Mute mode	QT	EOT			
			AND	BOTH			
			OR				
19	ANI-ID	Transceiver's ANI ID code		25	PTT-LT	Transmit ANI code delay	0,1,...,30

Menu order	Function name	Function Description	Optional settings	Menu order	Function name	Function Description	Optional settings
26	MDF-A	A channel display mode	FREQ	34	WT-LED	Standby display color	OFF
			CH				BLUE
			NAME				ORANGE
27	MDF-B	B channel display mode	FREQ	35	RX-LED	Receiving display color	PURPLE
			CH				OFF
			NAME				BLUE
28	BCL	Busy channel lockout	OFF	36	TX-LED	Transmitting display color	ORANGE
			ON				PURPLE
29	AUTOLK	Auto keyboard lock	OFF	37	RESET	Reset	OFF
			ON				BLUE
30	SFT-D	Frequency shift direction	OFF				ORANGE
			+	PURPLE			
			-	VFO			
31	OFFSET	Offset frequency	00,000,...,69,990	ALL			
32	MEMCH	Memory channel	000,...,127				
33	DELCH	Delete channel	000,...,127				

Menu introduction

Setting Squelch level --- Menu 0

Squelch level is set for opening the receiving circuit, 0 level is to open squelch all the time; 1 level opens when the signal is weak, 9 level opens when the signal is strong. Whether to turn on the speaker depends on if it had set the CTCSS/DCS or other optional signal.

Band selection --- Menu 1

This menu is used for setting the current working band. There are VHF, UHF0, UHF1, UHF2, UHF3 which are selectable, A/B band (The band display on the upper and lower line on the screen) can be set as working band respectively.

Options	Working band
VHF	136-174.995 MHz
UHF0	230-250.995 MHz
UHF1	350-390.995 MHz
UHF2	400-470.995 MHz
UHF3	480-520.995 MHz

Note: There are only two of the five frequency bands supplied in this transceiver. If you want to use other bands, please contact the local Suicom distributor.

Press PTT key to select the transmitting band in dual standby mode --- Menu 2

If dual band standby mode had been activated, press PTT key to select the transmitting band. When the setting is A, A band transmits, and B band transmits when the setting is B. To select OFF transmitting band depends on the current band which the arrow aims at. This function is invalid if dual band standby does not start up or has started but has not been activated; this menu is used for controlling the transceiver to connect with interband repeaters.

Dual standby startup switch --- Menu 3

This setting decides if both the frequencies or channels on display will be on standby at the same time; if "BDR" displays in static, it means dual standby does not work, if it flickers, it means dual standby operates.

Transmitting power selection --- Menu 4

This is used for selecting the High/Low power transmit, press Alarm key can also change the High/Low power in transmitting mode.

Time-out-timer --- Menu 5

TOT is to limit the transmitting time when you press PTT key. It can be set between 15 seconds and 600 seconds. The transmitting light will flicker before 10 seconds when it is about to reach the preset time limit, that is to warn that you are going to transmit over time.

Frequency step --- Menu 6

In frequency mode, to increase or reduce the frequency step by [▲] / [▼] key. There are 5.00K, 6.25K 10.00K, 12.50K and 25.00K 5 kinds of steps can be selected.

Battery save mode --- Menu 7

This menu is used to set battery save mode, 1:1 is an equally spaced save mode, 1:4 is the best save mode, but the first receiving may occur a little delay in 1:4 save mode.

VOX transmit --- Menu 8

This menu is to set whether to start up the VOX transmit and the level to start up this function, 1 level only needs a little volume to start up the VOX transmit, while 10 level needs more volume.

Bandwidth selection --- Menu 9

To select the bandwidth, there are Wide and Narrow bandwidth can be selected.

Receiving DCS --- Menu 10

This menu is used to set the receiving DCS to avoid interference. Once the setting is confirmed, the original setting of receiving DCS will be automatically replaced.

Receiving CTCSS --- Menu 11

This menu is used to set the receiving CTCSS to avoid interference, Once the setting confirmed, the original setting of receiving CTCSS will be automatically replaced.

Apart from 50 groups standard CTCSS, you can set non-standard CTCSS between 60.0Hz and 259.9Hz through keyboard.

For example: If you want to set 110.5Hz non-standard to receive CTCSS, input the number 1105 directly before entering into the setting selection mode.



Transmitting DCS --- Menu 12

Transmitting CTCSS --- Menu 13

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The above two menu settings are the same with the Menu 10 and 11, but they only work in transmitting mode. That the "CT", "DCS" appear means it has transmitted the CTCSS or DCS signal during the transmitting.

Auto backlight --- Menu 14

This menu is set to control how long to turn off the keyboard backlight after operating.

Beep prompt switch --- Menu 15

To select beep prompt ON/OFF when operating.

ANI code switch(Caller ID) --- Menu 16

Whether to display the caller ID when the caller transmits the ANI code.

Optional signal --- Menu 17

You can accomplish all calls, group calls and selective calls etc through DTMF optional signal; if you want to use the function of all calls, group calls and selective calls, please make sure you had turned on the optional signal function.

Mute mode --- Menu 18

This menu is used to set the conditions of the speaker, you can use all calls, group calls and selective calls if this menu is set reasonably when optional signal works.

Transceiver's ANI ID code --- Menu 19

To display the transceiver's ANI ID code(Must be programmed by computer).

Ring time --- Menu 20

The transceiver will ring when receiving the calling of the signal information code in the case of having set the optional signal function; this menu is used to set how long to turn on the speaker after ring time.

DTMF sidetone switch --- Menu 21

This menu is used to control if the transceiver phonates the same DTMF tone when transmitting DTMF.

Setting	Function
OFF	Turn off DTMF sidetone
DT-ST	Phonate DTMF sidetone when transmitting by keyboard; do not phonate DTMF sidetone when auto transmitting.

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ANI-ST	Phonate DTMF sidetone when auto transmitting, do not phonate DTMF sidetone when transmitting by keyboard.
DT+ANI	Phonate DTMF sidetone when both auto transmitting and transmitting by keyboard.

Signal information code --- Menu 22

When PTT-ID had been set as BOT, EOT or BOTH, press or release the PTT key to transmit the DTMF information code(DTMF information code must be programmed by computer.)

Scan mode --- Menu 23

This menu is used to set how to deal with the condition when having scanned the signal while scanning.

Setting	Function
TO	Continue scanning after 5 seconds when you receive a signal.
CO	Scanning stops when received a signal, which will continue scanning 3 seconds after the signal disappears.
SE	Scanning will stop when you receive a signal.

PTT-ID --- Menu 24

This menu is used to set if to transmit ID code when you press or release PTT key.

BOT	Transmit ID code when you press PTT key, do not transmit ID code when you release PTT key
-----	---

22

EOT Transmit ID code when you release PTT key, do not transmit ID code when you press PTT key

BOTH Transmit ID code when you both press and release PTT key.

It depends on the programming software whether to transmit the signal information code or transceiver's ANI code.

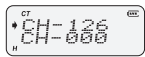
Transmit ANI code delay --- Menu 25

This menu is used to set the delay from pressing PTT key to start transmitting ANI code.

A channel display mode --- Menu 26

In channel mode, it decides the display mode of the upper channel;

FREQ(displays channel frequency+channel number) 

CH(displays channel number) 

NAME(displays channel name+display channel number) 

The channel name is programmed by computer, if the channel does not set channel name in the channel name display mode, the system will auto display according to the CH mode.

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B channel display mode --- Menu 27

The operation is the same with the Menu 26, but this setting only works to the channels which display on the lower of the screen.

Busy channel lockout --- Menu 28

When this menu is set as ON, it can not transmit when the channel is busy.

Auto keyboard lock --- Menu 29

When this menu is set as ON, it will auto lock keyboard when you do not do any operation within 10 seconds, press **FUNC** more than 2 seconds constantly to unlock the keyboard.

Frequency shift direction --- Menu 30

Setting the frequency offset direction.

Offset frequency --- Menu 31

In frequency mode, the difference of receiving and transmitting frequency is set by this menu.

Memory channel --- Menu 32

In frequency mode, to set a channel's parameter and store it in appointed channel number through this menu.

Delete channel --- Menu 33

This menu is used for deleting the parameter in appointed channel, it will prompt for erroneous operation if the channel to be deleted does not exist.

Standby display color --- Menu 34

It decides the LCD backlight color in standby mode.

Receiving display color --- Menu 35

It decides the LCD backlight color in receiving mode.

Transmitting display color --- Menu 36

It decides the LCD backlight color in transmitting mode.

Reset --- Menu 37

To reset transceiver's parameter.

VFO Menu reset, all the menu setting will return to the factory default.

ALL It will delete all the channel setting when the reset completes at the same time, then channel 0 and channel 127 will store two frequencies respectively which predetermined by factory.

How to operate

Setting FM radio

Start up RADIO, press [**FUNC-9**], then "FUNC" will appear in the lower right corner of the screen, press [**RADIO**] again, then you can adjust the receiving frequency by [**▲**]/ [**▼**] key, you can also input your

desired receiving FM frequency directly through keyboard 

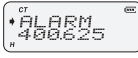
or simply press the [**EXIT**] key to auto scan the next broadcasting program.

Note: Dual standby function will auto cancel after FM startup, it only standby in the frequency which the arrow aims at. The system will cancel the FM radio mode temporarily when there is signal in this frequency and turn into the receiving mode. It will auto return to the FM radio mode a few seconds later after receiving completed.

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Distant urgency alarm

Start up alarm, press [**FUNC-9**], then "FUNC" will appear in the lower left corner of the screen, press [**ALARM**]

again, the screen displays , "ALARM" will flicker.

The transceiver will transmit the alarm signal in the frequency which the arrow aims at in a certain time interval, and the transceiver will send out the audible and visual alarm at the same time. You can turn off this function by programming software if you do not need to phonate alarm while transmitting alarm signal.

When the other transceivers receive the alarm signal, they will phonate alarm, and the receiving and

transmitting light will flicker at the same time. The frequency which the arrow aims at will flicker and

display the ANI code from the alarm side 

It will stop the alarm when receiving a signal or pressing **PTT** key or **MONI** key during alarm.

You can also press [**ALARM**] again to stop the alarm.

A/B switch

You can switch between the upper and lower frequency on the screen by pressing [**FUNC-9**]+[**A/B**]. If the dual standby had started up, the arrow will point at the band which has been set by TX-AB menu.

Band switch

There are VHF, UHF0, UHF1, UHF2, UHF3 etc different working bands which can be set arbitrarily both in the upper and lower band on the screen in this transceiver. The setting band operates to all bands that the arrow aims at, so this transceiver can work arbitrarily in UU, UV, VV, VU etc dual frequency modes. In channel mode, the working band in upper and lower band depends on the channel which you choose, then the setting of this menu is invalid.

Memory channel

A complete channel includes the parameter of working band, receiving and transmitting frequency, receiving and transmitting CTCSS/DCS, transmitting power, channel bandwidth, PTT-ID, optional signal, mute mode, busy channel lockout, signal information code, adding channel scan, channel name etc.

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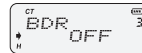
All the parameter can be set in frequency mode and then stored in the appointed channel number through Menu 32(Memory channel) except that channel scan adding and channel name must be edited by programming software.

For example: if you need to store some parameters in a channel as below:

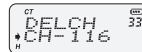
Receiving frequency	136.625MHz
Transmitting frequency	138.775MHz
Receiving CTCSS	69.3Hz
Transmitting DCS	0 2 3
Transmitting power	High
Channel bandwidth	Narrow
PTT-ID	OFF
Optional signal	OFF
Mute mode	CTCSS/DCS
Adding channel scan	
Channel name	Must be programmed by computer
Channel number	116

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A. In frequency mode, quit the dual standby first.

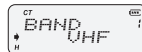


B. Check if there was parameter set in channel number 116,

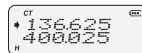


It means the channel has the parameter stored in it if the channel number displays "CH", then delete it before you store new data. "CH" will disappear in this channel number after being deleted, then the channel is blank, and you can memory new parameter in it.

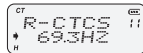
C. Setting working band



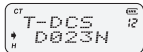
D. Setting receiving frequency 136.625MHz



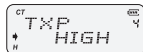
E. Setting receiving CTCSS



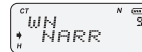
F. Setting transmitting DCS



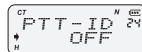
G. Setting transmitting power



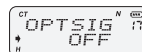
H. Setting channel bandwidth as "NARROW", then "N" will appear



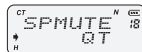
I. Setting PTT-ID



J. Setting optional signal



K. Setting mute mode



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- L. Store it in channel number 116

"CH" will appear in front of the No. 116 after pressing [MENU], which means the parameter had been stored in channel No. 116. But the transmitting and receiving frequency are the same, so you must to store the transmitting frequency again.

- M. Setting transmitting frequency

- N. To do the operation of storing channel again

The operation of the channel storing having been completed, the channel will auto be added in scan list when storing channel in transceiver. So it is not necessary to do the operation of the scan adding. You can set adding scan as "OFF" by programming software after read it into the computer, then write it again into the transceiver if you do not want to add this channel into the scan list.

Working mode switch

Press [MENU] when you turn on the radio to switch between the frequency mode and channel mode. You must input the right password to switch the working mode if you had set password by programming software.

All calls, group calls and selective calls

This transceiver can achieve the function of all calls, group calls and selective calls by DTMF signaling

system. The transceiver in the group must be programmed with everyone's ANI code by programming software if you want to achieve the function of all calls, group calls and selective calls.

For example, there are 30 pcs of transceivers in the group, the ANI code is 600-609, 700-709, 800-809 in sequence, all the transceivers must do the setting as below besides setting ANI code for each transceiver respectively.

- A. Turn on the ANI code display switch

- B. Startup DTMF optional signal

- C. Setting mute mode as

- D. Setting ring time arbitrarily

- E. Setting PTT-ID as EOT

(or do not set it, it can not display caller's ANI code if you do not set it.)

All calls: For example, if the transceiver of 600 wants to call other transceivers, input [*REV] [*REV]

[*REV] after pressing PTT key, then all the transceivers in the group will have a ringing signal and open their own speakers. This is the function of all calls.

Group calls: For example, if the transceiver of 600 wants to call 10 pcs of transceivers from 700-709, input [FSAVE] [*REV] [*REV] after pressing PTT key, then the transceivers from 700-709 will have a ringing signal and open their own speakers. This is the function of the group calls.

If you want to call the transceivers from 800-809, just input [**8VOX**] [***REV**] [***REV**], then you can call them.

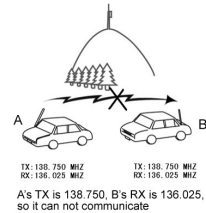
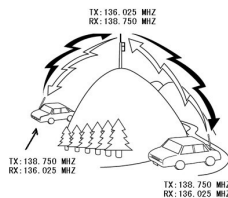
Selective calls: Input the ANI code of the one whom you want to call directly through keyboard after pressing **PTT** key, then only one transceiver will have a ringing signal, this is the function of the selective calls.

Communication through repeater

The communication distance will be further by using the repeater. The transmitting and receiving frequency are different when using repeater to communicate. In frequency mode, to achieve different frequencies of receiving and transmitting should rely on the direction of frequency and offset frequency; in channel mode, receiving and transmitting frequency can be edited respectively.

The transmitting frequencies of all the transceivers are the same by using the repeater, and all the receiving frequencies of the transceivers are the same too.

The communication between the transceivers will be invalid if the repeater is unable to work or the transceiver is far from the repeater which makes the repeater can not transfer the signal effectively.



This transceiver has a reverse function with [***REV**] key which can avoid this phenomenon. Press [***REV**] to communicate with other transceivers directly without the repeater.

UV inter-band communication

Some repeaters have the receiving and transmitting frequencies of different bands. Most transceivers are unable to use such repeater to receive and transmit. The UV King transceiver can join the repeater by setting relative menu.

1. Set the upper and lower working band respectively by Menu **BANO**.
2. Adjust the upper and lower working band.
3. Start up the dual standby when the Menu 3 is set as "ON".
4. To appoint the transmitting band by Menu 2 TX-AB, set as A if the transmitting band is A, set as B if the transmitting band is B.

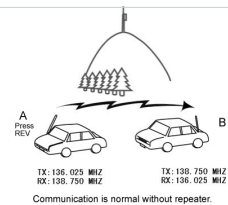
Wire clone function

Connect two transceivers by cloning cable, turn on the source radio and press **MONI** key, then all the channel parameters can be cloned into another transceiver.

Inspection, Monitor, Stun, Kill Operation

For the use of Inspection, Monitor, Stun, Kill, please check your system administrator or contact your local distributor. For technical support please go to www.suicom.net.

It may be necessary to preset the transceiver by PC program to enable these functions.



Trouble shooting

Problem	Solutions
Transceiver can not switch on.	<ul style="list-style-type: none"> ▪ The batterypack may be exhausted, check the power level; please recharge or replace the batterypack. ▪ The batterypack may be not installed properly, please reinstall the batterypack.
Transceiver can not receive the signal	<ul style="list-style-type: none"> ▪ Check if the receiving frequency is the same with the transmitting frequency and if the distance between the transmitting and receiving exceeds the transceiver's communication range. ▪ If there is a big obstacle between the transmitting and receiving spots. ▪ If the squelch level is set in a too high level. ▪ If the transmitting power of the transmitter is set as LOW, this will cause the transmitting power become lower. ▪ If the batterypack is exhausting.
The signal had been received, but there is no sound from the speaker.	<ul style="list-style-type: none"> ▪ Check if the setting of CTCSS/DCS is the same with transmitter. ▪ If the optional signal had been set, the transmitter must transmit the signal information code which transceiver can identify in case of having set this function, then speaker can be turned on.

Problem	Solutions
Transceiver can not transmit.	<ul style="list-style-type: none"> ▪ The transmitting is prohibited when the batterypack is exhausted. ▪ If the transmitting frequency exceeds the transmitting frequency range in this transceiver, you can not transmit in the frequency of UHF0(350-390.995) and UHF2(480-520.995).
The batterypack is easy being exhausted.	<ul style="list-style-type: none"> ▪ The battery save mode hasn't been started up. ▪ The life of batterypack is shorten.
You can not communicate with other member in the group.	<ul style="list-style-type: none"> ▪ Please confirm that if the frequency and CTCSS/DCS you are using are the same with other members in the group. ▪ The other members in the group may be too far away from you, please confirm if the transceiver is with in the effective communication range.
You receive other groups' signal in channel.	<ul style="list-style-type: none"> ▪ Please change the CTCSS/DCS of the channel. The transceivers in the group also need to be changed.
The receiving voice is too lower.	<ul style="list-style-type: none"> ▪ Please check if the MIC of transceiver is blocked up and if the volume potentiometer is turned high enough.

Technology parameter**CTCSS standard frequency list**

1	67.0	11	94.8	21	131.8	31	171.3	41	203.5
2	69.3	12	97.4	22	136.5	32	173.8	42	206.5
3	71.9	13	100.0	23	141.3	33	177.3	43	210.7
4	74.4	14	103.5	24	146.2	34	179.9	44	218.1
5	77.0	15	107.2	25	151.4	35	183.5	45	225.7
6	79.7	16	110.9	26	156.7	36	186.2	46	229.1
7	82.5	17	114.8	27	159.8	37	189.9	47	233.6
8	85.4	18	118.8	28	162.2	38	192.8	48	241.8
9	88.5	19	123.0	29	165.5	39	196.6	49	250.3
10	91.5	20	127.3	30	167.9	40	199.5	50	254.1

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DCS standard groups

1	D023N	16	D074N	31	D165N	46	D261N	61	D356N	76	D462N	91	D627N
2	D025N	17	D114N	32	D172N	47	D263N	62	D364N	77	D464N	92	D631N
3	D026N	18	D115N	33	D174N	48	D265N	63	D365N	78	D465N	93	D632N
4	D031N	19	D116N	34	D205N	49	D266N	64	D371N	79	D466N	94	D645N
5	D032N	20	D122N	35	D212N	50	D271N	65	D411N	80	D503N	95	D654N
6	D036N	21	D125N	36	D223N	51	D274N	66	D412N	81	D506N	96	D662N
7	D043N	22	D131N	37	D225N	52	D306N	67	D413N	82	D516N	97	D664N
8	D047N	23	D132N	38	D226N	53	D311N	68	D423N	83	D523N	98	D703N
9	D051N	24	D134N	39	D243N	54	D315N	69	D431N	84	D526N	99	D712N
10	D053N	25	D143N	40	D244N	55	D325N	70	D432N	85	D532N	100	D723N
11	D054N	26	D145N	41	D245N	56	D331N	71	D445N	86	D546N	101	D731N
12	D065N	27	D152N	42	D246N	57	D332N	72	D446N	87	D565N	102	D732N
13	D071N	28	D155N	43	D251N	58	D343N	73	D452N	88	D606N	103	D734N
14	D072N	29	D156N	44	D252N	59	D346N	74	D454N	89	D612N	104	D743N
15	D073N	30	D162N	45	D255N	60	D351N	75	D455N	90	D624N	105	D754N

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Technology specification

Frequency range	VHF:136-174.995 MHz(Receiving/Transmitting)
	UHF0:230-250.995MHz(Receiving/Transmitting)
	UHF1:350-390.995 MHz(Receiving/Transmitting)
	UHF2:400-470.995 MHz(Receiving/Transmitting)
	UHF3:480-520.995 MHz(Receiving/Transmitting)
Memory channels	128 channels
Working mode	Co-channel or Dis-channel simplex
Working temperature	-30°C ~+60°C
Operating voltage	7.5V
Modulation	FM(F3E)
Power output	1W/4W
Maximum frequency deviation	≤ ± 5KHz
Spurious radiation	7 μ W
Frequency stability	± 2.5ppm
Receiving sensitivity	<0.18 μ V
Audio output power	500mW
Transmitting current	0.7A/1.0A/1.5A
Standby current	46mA(It is 15mA in battery pack save mode)
Weight	246g
Dimension	58x105x38mm

Note: The above specifications subject to change without notice.

Declaration

Suicom strives to achieve the accuracy and completeness of this manual, but take no responsibility for any possible errors or omissions. All the above specifications subject to be changed by **Suicom** without notice.

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