Handheld two way radio

Model: FD-880

FCC ID: ZS4FD-880

SAFETY TRAINING INFORMATION

WARNING

Your radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as "Occupational Use Only", meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the "General Population" in an uncontrolled environment.

This radio has been tested and complies with the FCC RF exposure limits for "Occupational Use Only". In addition, your radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

- FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields– RF and Microwave.
- The following accessories are authorized for use with this product. Use of accessories other than those specified may result in RF exposure levels exceeding the FCC requirements for wireless RF exposure.; Belt Clip, Rechargeable Li-Ion Battery Pack, Charger.

CAUTION

To ensure that your expose to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

- **DO NOT** operate the radio without a proper antenna attached, as this may damaged the radio and may also exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio or antenna specifically authorized for use with this radio.
- **DO NOT** transmit for more than 50% of total radio use time ("50% duty cycle"). "50% duty cycle" is also applicable to PSTN (Public Switched Telephone Network) mode and VOX Mode. Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the TX indicator lights red. You can cause the radio to transmit by pressing the "PTT" switch.
- **ALWAYS keep** the antenna at least 2.5 cm (1 in.) away from the body when transmitting and only use the Icom belt-clips listed on p. 24 when attaching the radio to your belt, etc., to ensure FCC RF exposure compliance requirements are not exceeded. To provide the recipients of your transmission the best sound quality, hold the antenna at least 5 cm (2 in.) from your mouth, and slightly off to one side.

The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates with the FCC RF exposure limits of this radio.

CONTENTS

UNPACKING AND CHECKING EQUIPMENT

Carefully unpack the transceiver.We recommend that you identify the items listed in the following table before discarding the packing material.If any items are missing or have been damaged during shipment,file a claim with the carrier immediately.

Supplied accessories

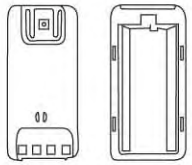
ITEM	QUANTITY
Antenna	1
Li-ion battery pack	1
Car charger	1
Power adaptor	1
Belt clip	1
User's manual	1

Optional accessories

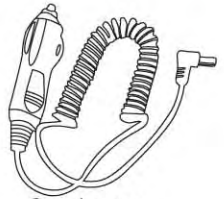
ITEM
Headset
Programming cable & software
Speaker / microphone
Intelligent charger

Standard Accessories:

Antenna



Li-ion battery pack
(1600mAh)



Car charger

Power adapter

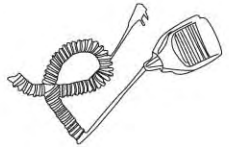
Belt clip

User's manual

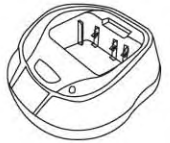
Optional Accessories:

Headset

USB programming cable



Speaker/Microphone



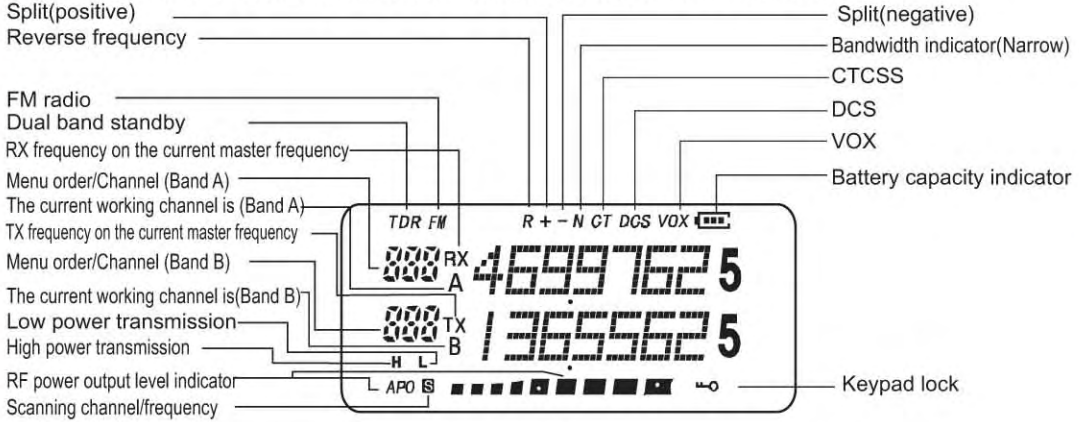
Intelligent charger

DECRIPTION OF FUNCTIONS

1.Dual band,Dual frequency,Dual display and Dual standby
2.Frequency range:136-174MHz&400-480MHz
136-174MHz&460-520MHz
4. Power output:5W VHF/4W VHF
5.Working mode:U-V,V-V or U-U selectable
6.Channel setting:VHF TX&UHF RX or UHF TX-VHF RX
7.Charging with the cradle or Charging directly from the power supply.
8.128 memory channels
9.VOX function
10.Stopwatch timer function
11.50 groups of CTCSS and 105 group of DCS
12.Emergency alarm function
13.Wide/Narrow bandwidth selectable(25KHz/12.5KHz)
14.Multi-display modes(Channel order number/Frequency/Channel frequency/Channel name selectable)
15.Multi-scan modes
16.Priority scan
17.LED flashlight function
18. 3 selectable LCD backlight colors
19.FM radio
20.Frequency steps selectable(5/6.25/10/12.5/25KHz)
21.HI/LO power selectable(5W/1W)
22.Intelligent charger(Optional accessory)
23.High capacity Li-ion battery pack
24.Power on message selectable(Battery voltage/ Full screen/Welcome message)
25.Low battery prompt
26.3 modes of busy channel lockout
27.Transmitting overtime alarm
28.Keypad lock(Auto/Manual)
29.Adding scanning channel
30.Computer/manual programmable
31.Menu/Channel reset
32.Channel name editable
33. Reverse frequency function
34.TOT setting
35.Band A/Band B auto switchable when receiving
36.Working with repeater function

LCD display

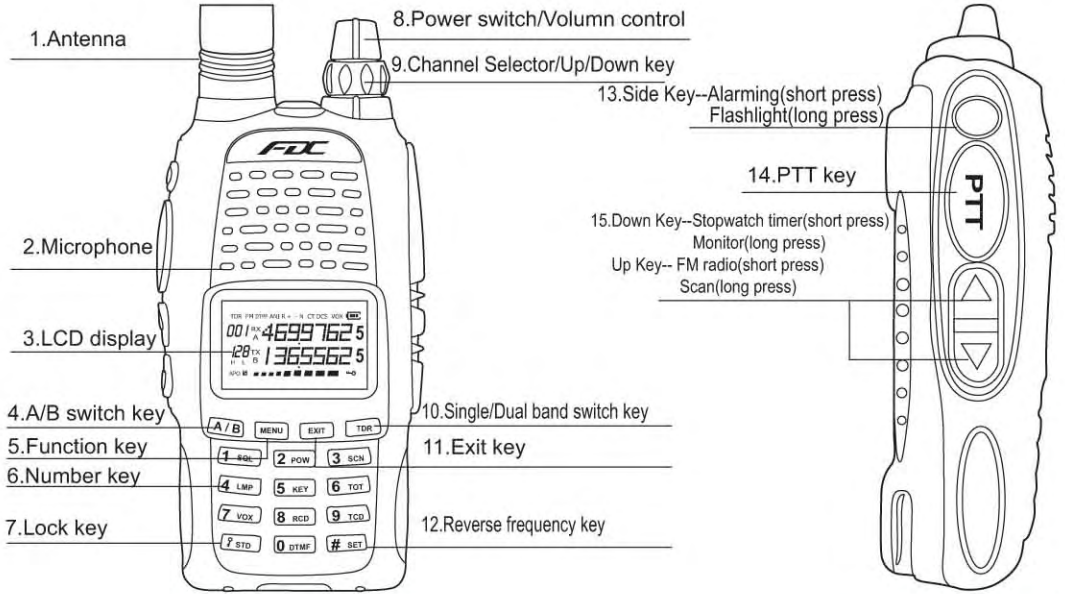
There are various indicators display on the screen when powering on.You can find that they are very useful. Sometimes,maybe you can not think of the signification of these icons or you do not how to operate the transceiver,please refer the below table to learn what the indicators stand for accordingly.



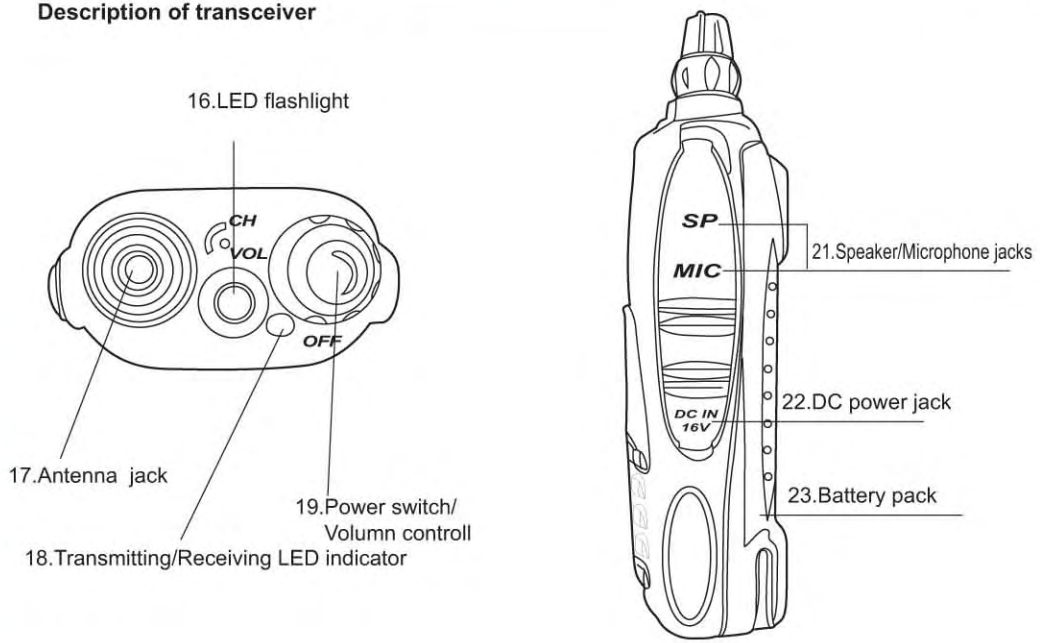
Note:

- Full indicator for battery capacity
- Low indicator for battery capacity
- Flashing while charging battery
- Exhausted indicator for battery capacity
- Receiving signal meter
- Keypad lock

Description of transceiver



Description of transceiver



Charging Li-ion battery pack

Battery packs are not charged when they are made, pls charge them before use.
You can charge the battery or transceiver separately via charger.You can charge the transceiver by turning the transceiver off or on.The transceiver can be charged directly via AC adaptor or car charger.The transceiver can work normally when charging.

When using FM radio/scan/stopwatch/emergeny alarm fuction,the transceiver will stop charging.After these operations,charging will be resumed automatically.

NOTE

- Please only use the FDC supplied battery and charge.Or it may be damaged cause the life of the battery pack to shorten or the battery pack may
- The battery pack life is over when its operatin time decreases even though it is fully and correctly charged. Replace the battery pack.

Quick search

Press[MENU]to enter the main menu, then rotate channel selector or press[▲]or[▼]key one time to search the desired function or parameter when setting for each function or parameter,while keeping pressing [▲]or[▼] key to quickly search.

Single/Dual band switch

Press [TDR] to set single band or dual band,in dual standby mode,the screen shows[TDR],the transceiver can receive in the two different frequencies.

A/B switch

Press[A/B]to select the master frequency. The master frequency (band A/band B) can be switched automatically when receiving a signal. When it is receiveing in band A, then A is ths master frequency, there shows" A"in the screen,and LCD displays the current receives working frequency and channel.The transceiver can transmit and receive on the master frequency, but ONLY receives in the sub frequency.

Side key-----(Emergeny alarm/Flashlight selectable)

1.When emergency alarm function is set to "ON",short press the Side key to activate emergency alarm function, and start transmitting and send the alarm signal to companions or systems.Press PTT key to exit from this function or the transceiver will stop alarming automatically after 1 second.

2.Long press Side key for 2 seconds to turn ON/IFF flashlight function.

[▲]Up key---(FM Radio/Scan selectable)

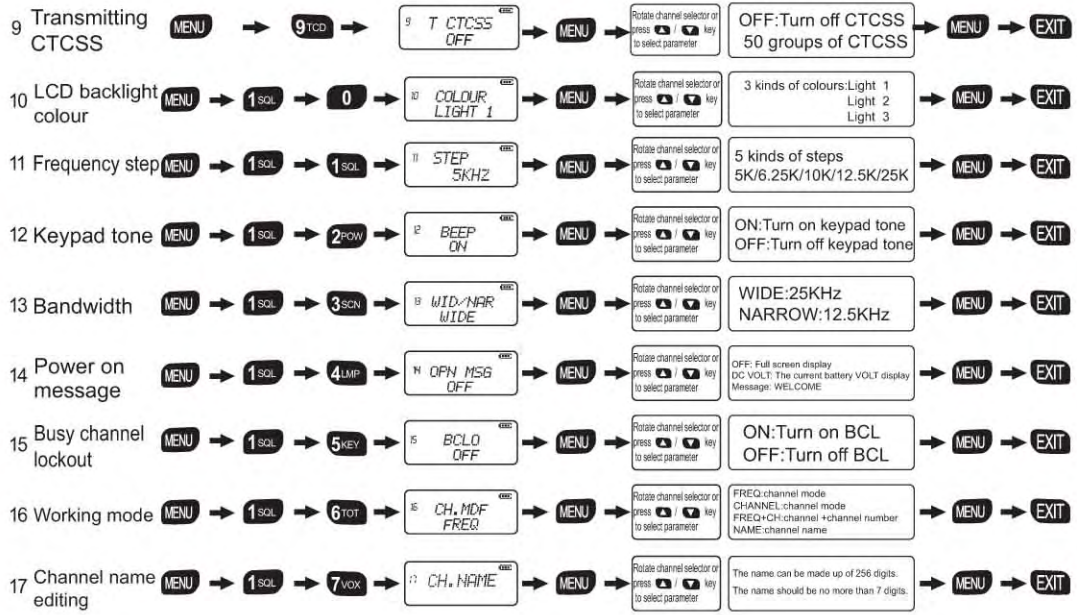
Short press [▲]key to turn ON/IFF FM Radio function,while keeping press for 2 seconds to activate Scan function.Press any key to exit from scanning.

[▼]Down key---(Stopwatch/Monitor selectable)

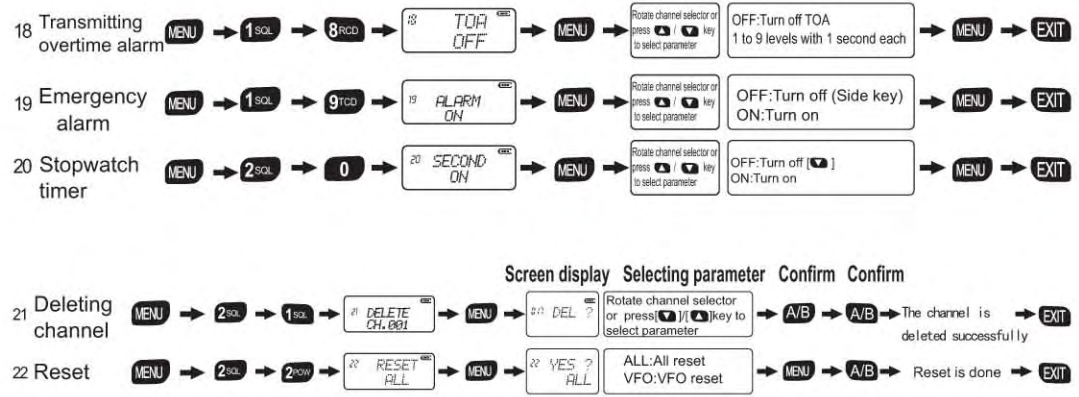
When stopwatch timer function (maximum 999 seconds)is set to "ON",short press [▼] key to start counting/ pause,while keeping press for 2 seconds to activate monitor function.

Function order	Function name	Enter function set	Screen display	Select parameter	Selectable parameter explanation	Confirm	Exit
1	Squelch level	MENU → 1 SQL	1 SQUELCH 5	MENU	Rotate channel selector or press ▲ / ▼ key to select parameter	Squelch level from 0 to 9	MENU	EXIT
2	Transmitting power	MENU → 2 POW	2 POWER HIGH	MENU	Rotate channel selector or press ▲ / ▼ key to select parameter	HIGH:High power LOW:Low power	MENU	EXIT
3	Scan mode	MENU → 3 SCN	3 SCAN MD TO	MENU	Rotate channel selector or press ▲ / ▼ key to select parameter	TO:Time scanning mode CO:Carrier mode 1 scan SE: Carrier mode 2 scan	MENU	EXIT
4	LCD/Keypad backlight	MENU → 4 LMP	4 LAMP MD AUTO	MENU	Rotate channel selector or press ▲ / ▼ key to select parameter	AUTO/ON/OFF	MENU	EXIT
5	Keypad lock	MENU → 5 KEY	5 KEYLOCK MANUAL	MENU	Rotate channel selector or press ▲ / ▼ key to select parameter	AUTO/MANUAL	MENU	EXIT
6	TOT	MENU → 6 TOT	6 TOT 30 S	MENU	Rotate channel selector or press ▲ / ▼ key to select parameter	OFF:Turn off TOT TOT has 9 levels in steps of 30 secs., between 30 and 270 secs..	MENU	EXIT
7	VOX	MENU → 7 VOX	7 VOX LVL OFF	MENU	Rotate channel selector or press ▲ / ▼ key to select parameter	VOX has levels from 1 to 9 OFF:Turn off VOX function	MENU	EXIT
8	Receiving CTCSS	MENU → 8 RCD	8 R CTCSS OFF	MENU	Rotate channel selector or press ▲ / ▼ key to select parameter	OFF:Turn off CTCSS 50 groups of CTCSS	MENU	EXIT

SHORTCUT OPERATION SHEET



SHORTCUT OPERATION SHEET



01.Setting squelch level(SQUELCH)----MENU 1

Squelch level is about when the signal is strong enough to turn on the squelch function,and when it is weak enough to turn off the squelch function.When the squelch is on,there is voice from the loudspeaker for all of the signaling set by the transceiver.When the squelch level is set too high,the weaker signals may be missed, while the squelch level is set too low, the transceiver maybe disturbed by some noice or other needless signals.

In standby,press[MENU]+[1 SQL],the screen displays 

.

Press[MENU]to enter, press[▲]/[▼] to select the desired squelch level,then press [MENU]to confirm,finally press [EXIT] to return to standby.

NOTE
- The squelch level for this transceiver has 0-9 levels selectable,and level 0 is to turn off the squelch function.
- The higher level the squelch is set, the stronger receiving signal is needed.

02. Setting HI/LOW power(POWER)----MENU 2

In Standby. press[MENU]+[2 POW],the screen disolays 

.

press[MENU] to enter, press[▲]/[▼]to select HIGH/LOW power,then press[MENU]to confirm,finally press[EXIT] to return to standby.

NOTE
- This transcriver has HIGH and LOW transmitting power selectable:
  VHF:HIGH:5W LOW:1W
  UHF:HIGH:4W LOW:1W

03. Setting scan mode (SCAN MD)----MEMU 3

This transceiver has three scan modes:

TO:The transceiver continues scanning if there are no any operations 5 seconds after receiving signals.

CO:The transceiver pauses scanning when receiving signals,and continues scanning 3 seconds after receiving signals.

SE:The transceiver stops scanning when receiving signals.

In standby mode, press[MENU]+[3 SCN],the screen displays 

.

Press[MENU]to enter, press [▲]/[▼]to select TO/CO/SE scan mode, the press [MENU] to confirm, finally press [EXIT]to return to atandby.

04.Setting LCD backlight/keypad backlight (LAMP)----MENU 4

This transceiver has 3 backlight settings(AUTO/ON/OFF selectable).

AUTO:In standby, if there are no any operations 8 seconds, this function will not be activated automatically. Otherwise,operating on the keypad will activate this function.

OFF:Turn off this function.

ON:Turn on this function.

In standby,press [MENU]+[4 LMP],the screen displays 

.

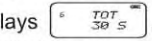
Press [MENU] to enter,press[▲]/[▼] to select AUTO/ON/OFF.Then press [MENU] to confirm,finally press[EXIT] to return to standby.

05.Setting keypad lock(KEYLOCK)----MENU 5

This transceiver has automatical lock and manual lock selectable.
AUTO----Automatical lock:There are no operations within 28seconds,the transceiver will be locked automatically.
Press [STD] for 2 seconds to unlock the keypad.
MANUAL---Manual lock:In standby,press [STD] for 2 seconds to lock the keypad,and press[STD] for 2 seconds again to unlock it.
In standby, press [MENU]+[5KEY],the screen displays 

. Press[MENU] to enter,press[▲]/[▼] to select AUTO/MANUAL.Then press [MENU] to confirm,finally press [EXIT]to return to standby.

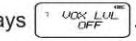
06.Setting timer-out timer(TOT)----MENU 6

This function is to prevent the transceiver from transmitting for too long time.When the transceiver is exceeding the preset time limit,the transceiver will stop transmitting with an overtime alarm.To stop the alarm,release the PTT switch.
This transceiver can be set in 9 levels with 30 seconds each,between 30 and 270 seconds.
In standby, press [MENU]+[6TOT],the screen displays 

. Press [MENU] to enter, press[▲]/[▼]to select TOT.Then press [MENU] to confirm,finally press [EXIT] to return to standby.

07.Setting VOX(VOX LVL)----MENU 7

VOX operation allows you to transmit hands-free.When the VOX system,you do not need to press PTT key to transmit.Flashes red while transmitting a signal.The transmitting operation will somewhat be delayed,and the voice signal information may be not transmitted at the first beginning,since there needs some time for the VOX circuit to detect the voice signal.

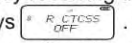
In standby, press [MENU]+[7VOX],the screen displays 

. Press[MENU] to enter,press[▲]/[▼]to turn OFF VOX function or select VOX level (1-9).Then press [MENU]to confirm,finally press [EXIT] to return to standby.

NOTE

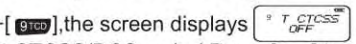
- The lower level of VOX is set,the higher volume is needed.
- In SCAN and RADIO modes,the VOX function is not available.

08.Setting receiving CTCSS/DCS(R CTCSS/R DCS)----MEMU 8

This transceiver has 50 groups of CTCSS and 105 groups of DCS.
Using the CTCSS/DCS can be used for you to receive the specified individual or group calls,and avoid the needless callings from others with the same frequency.Only receiving the same CTCSS/DCS signals.
In frequency mode, press[MENU]+[8RCG],the screen displays 

. Press [MENU] to enter,press[▲]/[▼] to turn OFF this function or select CTCSS/DCS code. (Press [MENU] to select R CTCSS/R DCS) Then press [EXIT] to confirm,finally press[STD] to return to standby.

09.Setting transmitting CTCSS/DCS(T CTCSS/T DCS)----MEMU 9

In frequency mode, press [MENU]+[9 TCD],the screen displays 

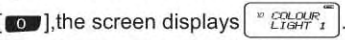
. Press [MENU] to enter,press [▲] / [▼] to turn OFF this function or select CTCSS/DCS code.(Press [9 TCD] to select T CTCSS/T DCS) Then press [MENU] to confirm,finally press[EXIT]to return to standby.

NOTE

- In DCS selections,press[#SET] to select DCS Normal/Inverse.
- DXXXN(from D023N to D754N) means POSITIVE code,while DXXXI(from D023I to D754I) means NEGATIVE code.
- Keep pressing [▲]/[▼] to quickly search parameter,release the key to return to normal.

10. Setting LCD backlight colour (COLOUR)----MENU 10

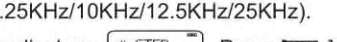
This transceiver has 3 LCD backlight colours selectable.

In standby, press [MENU]+[1 SQL]+[0],the screen displays 

.
Press [MENU] to enter,press [▲]/[▼] to select LIGHT 1/LIGHT 2/LIGHT 3.Then press [MENU] to confirm,finally press [EXIT] to return to standby.

11.Setting frequency step(STEP)----MENU 11

This transceiver has 5 steps selectable(5KHz/6.25KHz/10KHz/12.5KHz/25KHz).

In standby, press [MENU]+[1 SQL]+[1 SQL],the screen displays 

. Press MENU] to enter,press[▲]/[▼] to select the desired step.Then press[MENU]to confirm,finally press [EXIT] to return to standby.

12.Setting keypad tone(BEEP)----MENU 12

In standby,press [MENU]+[1 SQL]+[2 POW],the screen displays 

. Press [MENU] to enter,press[▲]/[▼] to select ON/OFF.Then press[MENU] to confirm,finally press [EXIT] to return to standby.

13. Setting Wide/Narrow bandwidth(WID/NAR)----MENU 13

In standby,press [MENU]+[1 SQL]+[2 POW],the screen displays 

. Press [MENU] to enter,press[▲]/[▼] to select WIDE/NARROW bandwidth.Then press [MENU] to confirm,finally press [EXIT] to return to standby.

NOTE

- Wide :The channel spacing is 25KHz.
- Narrow :The channel spacing is 12.5KHz.

14.Setting power on message(OPN MSG)----MENU 14

This transceiver has 3 display modes selectable for the power on message as follow:

OFF:display the full screen

DC VOLT:display the current battery voltage

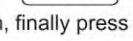
MESSAGE----display "WELCOME"

In standby,press [MENU]+[1 SQL]+[4 LMP],the screen displays  .

Press[MENU] to enter,press[▲]/[▼]to select OFF/DC VOLT/MESSAGE.Then press [MENU]to confirm,finally press [EXIT] to return to standby.

15.Setting busy channel lockout(BCLO)----MENU 15

This function is to prevent the interference from other communicating channels.When the selected channel is occupied by others,the transceiver can not transmit by pressing PTT key.

In standby,press [MENU]+[1 SQL]+[5 KEY],the screen displays  . Press [MENU] to enter,press[▲]/[▼] to select ON/OFF this function.Then press[MENU] to confirm, finally press [EXIT] to return to standby.

16.Setting working mode(CH.MDF)----MENU 16

This transceiver has 2 options for the working mode as follow:

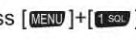
1. FREQ------ Frequency mode 2.CHANNEL----Channel mode

There are 3 channel display selections in channel mode as follow:

1.Channel

2.FREQ.CH----- Frequency mode+Channel number

3.NAME----------Channel name

In standby,press [MENU]+[1 SQL]+[6 TOT],the screen displays  . Press [MENU] to enter,press[▲]/[▼] to select FREQ/CHANNEL/FREQ.CH/NAME.Then press [MENU] to confirm,finally press [EXIT] to return to standby.

NOTE	It is available to switch between the frequency mode and the channel mode.At least one channel is stored ahead into the transceiver.So that the above settings for the mode switch is workable.

17. Channel name editing----MENU 17

When editing the channel name,please aware:

1.You can edit the channel name via FD-880 programming software or directly through the keypad manually.

2.Channel name can be made up of 26 letters(A to Z ;a to z), 10 digital numbers(0 to 9) and other characters(up to 256 characters) .Channel name can have a length of 7 bits or you can edit the bits from 1 to 7.

3. Store at least one channel into the transceiver ahead.

4. Set in the channel name mode.

5.Press[▲]/[▼]to select character,press[A/B]to select the next digit,press [TDR] to delete the digit.

Operation:

1.In the channel name mode,select the desired channel. Press [MENU]+[1 SQL]+[7 VOX], the screen displays " CH.NAME" .Press [MENU]key to enter,the screen displays "_" cross bar.

2. Press [▲]/[▼] or rotate the channel selector to select characters and press [A/B] to select the next digit, then press [▲]/[▼] again to select another digits.

3.After finishing editing the desired name, press [MENU] to confirm,finally press [EXIT] to return to standby.

NOTE:
- The screen displays with the edited channel name and there also shows the channel number on the top right corner.
- Keep pressing [▲]/[▼] to quickly search characters,release the key to return to normal.

18.Setting transmitting overtime alarm(TOA)----MENU 18

This alarm is the pre-alert time when the transmitting time is nearly up to TOT preset time.When the time is up,a tone will sound (once every 1 second).This transceiver can be set from 1 to 9 TOA level with 1 second each. Level 1 means that the prompt 1 second ahead when the transmitting time is up to the TOT preset time.

In standby,press [MENU]+[1 SQL]+[8 RCD],the screen displays [18 TOA OFF].

Press [MENU] to enter,press[▲]/[▼]to select OFF/1-9 level.Then press [MENU] to confirm,finally press [EXIT] to return to standby.

19.Setting emergency alarm function(ALARM)----MENU 19

When emergency alarm function is ON,short press the Side key to activate emergency alarm function.Press PTT key to disable this function.

OFF:Turn off this function.

ON:Turn on this function.

In standby,press [MENU]+[1 SQL]+[9 TCD],the screen displays [19 ALARM ON]. Press [MENU] to enter,press[▲]/[▼] to select OFF/ON this function.Then press [MENU] to confirm,finally press[EXIT] to return to standby.

20.Setting stopwatch timer(SECOND)-----MENU 20

When stopwatch timer is ON,Press [▲]to start counting,press[▼] again to pause.

OFF:Turn off this function.

ON:Turn on this function.

In standby,press [MENU]+[2 POW]+[0],the screen displays [20 SECOND ON]. Press [MENU] to enter,press[▲]/[▼] to select OFF/ON this function.Then press [MENU] to confirm,finally press [EXIT] to return to standby.

21.Deleting channel(DELETE)----MENU21

In standby,press [MENU]+[2 POW]+[1 SQL],the screen displays [21 DELETE CH.001]. Press [MENU] to enter,the sereen displays [DEL ?], press [▲]/[▼] to select the desired channel.Then press [A/B]twice to confirm,when a beep sounds,the channel is deleted successfully.Finally press [EXIT] to return to standby.

22.Setting RESET(RESET)----MENU 22

In standby,press [MENU]+[2POW]+[1 SQL],the screen displays [RESET ALL].Press [MENU] to enter,press[▲]/[▼] to select VFO/ALL. Press [MENU] again to confirm,the screen display [YES ? ALL]. Then press [A/B]to confirm, finally press [MENU]to return to standby.

NOTE: In order to avoid to faulty operations,we suggest that you use this operation carefully.

23.FM radio(RADIO)

A.Turning on the FM radio: In standby,short press [▲] to turn on.The screen displays [Radio 88.10M].

B.Tuning the FM radio station:In radio mode,press [*STD]or [#SET],the screen displays [Radio SCAN-UP], at this time the radio keeps tuning the stations automatically.Once the transceiver gets tuned,it stops at this radio station and starts the listening.Press press[*STD] or [#SET] again to skip that radio station and resumn searching.

C.Rotate the channel selector to allow for fine-tuning the radio station.Or you can input the radio frequency directly through the keypad manually.

D.Storing radio station:After detecting a radio station,press [MENU]+the number key(0 to 9 key),the detected radio station will be stored into your transceiver for future use.There is 10 memory radio stations numbered 0 to 9 to store your desired radio stations.

E.In radio mode,press [TDR]+ the number key(0 to 9 key)to select the stored stations to accordingly listen to.

F.Exiting from the radio mode:Press [▲]or [EXIT] to exit from the radio mode.

NOTE: When the FM radio is working,the current frequency or channel is in standby.Once detecting the receiving signals,the transceiver will automatically switch to receiving/transmitting mode.10 seconds after the signal disappears,the transceiver will switch back to the radio mode.
In FM radio mode,press PTT to transmit.10 seconds after transmission, the transceiver will switch back to the radio mode. Press[▲] or [EXIT] to exit from the radio mode and back to receiving/ transmitting mode.

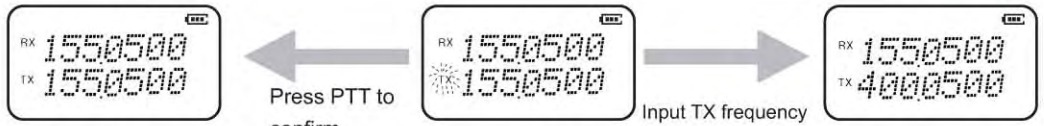
24.Setting frequency:Co-frequency(Common frequency) and Dis-frequency(Different frequency)

In frequency mode,it is available to store the desired frequencies.

In single standby mode:

1. In standby mode,for example.the current RX frequency is 455.6250MHz,the TX frequency is 139.9500MHz. See figure: [R 455.6250 T 139.9500]

2. RX is receiving frequency,TX is transmitting frequency.Firstly,input the receiving frequency(e.g.:155.0500MHz), and the transmitting frequency will be 155.0500MHz.Press PTT key to confirm.The current frequency(155.0500MHz) is CO-frequency.If you need to store as different frequency,input the transmitting frequency(e.g.:400.0500) when "TX" flashes,it will confirm automatically and " TX " stops flashing.Which means different receiving frequency (155.0500MHz)and transmitting frequency(400.0500MHz) are stored as Dis-frequency.



In dual standby mode:

Press [A/B] to choose BAND A,set the desired RX/TX frequency.Please refer to the above operations(In single band mode) accordingly.

Press [A/B] again to choose BAND B,set the desired RX/TX frequency. Please refer to the above operations(In single band mode) accordingly.

NOTE

It is switchable between BAND A and BAND B by[A/B] key,when the [A/B] indicator shows in BAND A,all the operations are based on BAND A.While the indicator shows in BAND B,all the operations are based on band B.

25.Setting channel memory

1.Set in the frequency mode.

2.Set the desired frequency.Please refer to "Setting frequency" accordingly.

3.Press [MENU]+[TDR],the screen displays  .

4.Press [▲]/[▼] (rotate the channel selector or input " 017 ")to select channel number.(e.g.:017)

5.Press [TDR] to confirm and return to standby.After the channel is successfully stored, a beep will sound.

26.Transmitting/Receiving auto switchable

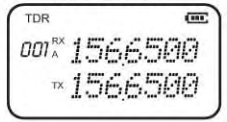
In dual standby mode,when it is receiving in BAND A or BAND B,then BAND A or BAND B is the master frequency.There shows " A " or " B " in the screen.The transceiver can transmit and receive in the master frequency,but only receive in the sub frequency.

27.Call channel indicator

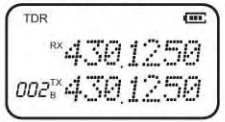
In dual standby mode,when BAND A is receiving, the screen shows " A " and also display the channel frequency and related parameter. 2 seconds after receiveing,If you do not press PTT key to transmit a signal,the transceiver will return to dual standby.

IN DUAL BAND STANDBY

IN BAND A



IN BAND B



28.Setting reverse frequency function

When using the reverse frequency function,please aware:

1. Set transmitting frequency and receiving frequency as dis-frequency.Please refer to "**24. Setting frequency: Co-frequency(Common frequency) and Dis-frequency(Different frequency)**" accordingly.

2.Press [TDR]to set in single band.

3.Set the frequency mode as the working mode.

Operation:

In standby mode,press [#SET] to activated this function,while press [#SET] again to switch off.

NOTE

- When using the reverse frequency function ,the transmitting and receiving frequencies of this transceiver will be interchanged,together with all setting for CTCSS/DCS setting.
- In channel mode,it is invalid to set reverse frequency function.

29.Low battery alarm

When the battery power is too low,there is a beep sound to alarm you to charge the battery or fit a new one.

30.Transmitting overtime alarm

When the transmitting time is exceeding the preset time,there will be a alarm to remind of the overtime transmitting,and transmitting will be paused.If you want to continue transmitting,please press PTT to resume transmitting.Please see MENU 6 about the Timer-out timer TOT).

31.Adding scanning channel

Please program scanning channel via FD-880 programming software.

When the transceiver starts scanning,only the added scanning channel are contained in the scan sequence.

32.Setting priority scan function

If you want to monitor the other frequency and check the certatin preferred frequency at the same time,you can set priority scan function.

E.g.:Scan six channels:Set CH1,CH2,CH3,CH4,and CH5 as the common scanned channels,and CH6 as the priority scanned channel,then the scanning order is as followings:

→CH1→CH6→CH2→CH6→CH3→CH6→CH4→CH6→CH5→CH6

NOTE

- When this transceiver detects signal on the priority channel when scanning,it will call on its frequency.
- Please program the priority channel via FD-880 programming software.

TROUBLESHOOTING GUIDE

Problem	Solution
No power.	1.The battery may be dead.Recharge or replace the battery. 2.The battery may not be installed correctly.Remove the battery and install it again.
Battery power dies shortly after charging.	1.The battery life is finished.Replace the battery with a new one. 2.The battery is not fully charged.
Cannot talk to or hear other members in your group.	1.Make sure you are using the same frequency and Quiet Talk tone as the other members in your group. 2.Other group members may be too far away.Make sure you are within range of the other transceiver.
Other voices(besides group members) are present on the channel.	Change the CTCSS/DCS tone.Be sure to change the tone on all transceivers in your group.
The keypad does not work.	1.Make sure the keypad is lock or not. 2.Make sure the keypad is not stuck.
Some functions can not be stored normally.	If the transceiver is working in the channel mode,since some functions are only set in frequency mode.

CTCSS/DCS TABLE

67.0	85.4	107.2	136.5	165.5	186.2	210.7	254.1
69.3	88.5	110.9	141.3	167.9	189.9	218.1	
71.9	91.5	114.8	146.2	171.3	192.8	225.7	
74.4	94.8	118.8	151.4	173.8	196.6	229.1	
77.0	97.4	123.0	156.7	177.3	199.5	233.6	
79.7	100.0	127.3	159.8	179.9	203.5	241.8	
82.5	103.5	131.8	162.2	183.5	206.5	250.3	

50 groups of CTCSS (Hz)

023	065	132	205	255	331	413	465	612	723
025	071	134	212	261	332	423	466	624	731
026	072	143	223	263	343	431	503	627	732
031	073	145	225	265	346	432	506	631	734
032	074	152	226	266	351	445	516	632	743
036	114	155	243	271	356	446	523	*645	754
043	115	156	244	274	364	452	526	654	
047	116	162	245	306	365	454	532	662	
051	122	165	246	311	371	455	546	664	
053	125	172	251	315	411	462	565	703	
054	131	174	252	325	412	464	606	712	

104+1 groups of DCS

AFTERSALES SERVICE

Warranty Period

The warranty period is one year from the date the radio is sold.
(It's invalid without the seal of agents.)

Free Maintenance

The seller provides free maintenance for the nature breakups in the warranty period.

Paid Maintenance

Under the following conditions,the seller will charge the maintenance fee:

- When the maintenance is beyond the warranty period, the seller will charge reasonable maintenance free.
- The breakups are caused by nature disasters.
- The breakups are caused by customers. (or their deliberate intentions.)
- The breakups are caused by the mishandling or operation unpermitted.
- The breakups are caused by using the nonstandard battery packs.

Agent:	Ser.No:
Model:	Date:

FDX Dual Band FM Transceiver

泉州飞达信电子有限公司
Quanzhou Feidaxin Electronics Co., Ltd