

Notice

Government law prohibits the operation of unlicensed radio transmitters within the territories under government control.

Illegal operation is punishable by fine or imprisonment or both.

Acknowledgement

We are grateful you choose BeiFeng series professional radio communications products!

Since 1989, BeiFeng has been always engaging in research and exploration of radio communications technologies, In order to lead intelligent technologies in the industry. We still make every effort to research and design products according to modern complicated communications environment, and We offer complete and customized communication solutions to clients. our products will satisfy you because of its excellent performance and outstanding communications strength . No matter what field you are in. You will be Satisfied with the radio .

This manual is applicable to UHF digital FM transceiver model: BF-TD503

Warning!

In explosive atmospheres(inflammable gas,dust particles,much powder area, etc.),Please turn the power off.

Precautions

It's important that the operator is aware of and understands hazards common to the operation of any radio .Please observe the following safety precautions to prevent radio damage or personal injury. The following precautions shall be observed during operation 、 service and repair of this radio.

The recommended usage rate is 1 minute for TX and 4 minutes for RX,When the radio is used for transmission for many hours Continuously, the radiator and chassis will become hot, allow the rear panel of the two-way radio to contact surface of low melting point /low Ignition Point object.

Don't leave the transceiver in direct sunlight for a long time , Don't place the transceiver on extremely heat、 damp、 dusty area, and don't put it on unstable surfaces.

- ◆ devices, Please obey the regulation turn the transceiver power off.)
- ◆ Use of the radio while you are driving may be against traffic laws, Please prohibite using it .
- ◆ If you notice any problems on the radio, please turn off at first. Then contact with local dealer.
- Do not modify this radio unless instructed by this manual or refer service to a qualified licensed or certified technician only.
- ◆ If you want to use the machine for secondary development, Please cantact with BeiFeng's Technical engineer or dealer for technical assistance.
- ◆ Please keep the surface of radio is clean and dry, Clean the radio using a cloth moistened with clean water and a mild dishwashing liquid.

Always switch the radio power off before installing optional accessories.

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unpack and inspection

Supplied accessories

Notes: The accessories listed below are covered by BeiFeng dealer、authorized BeiFeng agents or factories .

After carefully unpacking the transceiver, identify the items listed in the table below. If any items are missing or have been damaged during shipment Please contact with dealer immediately.

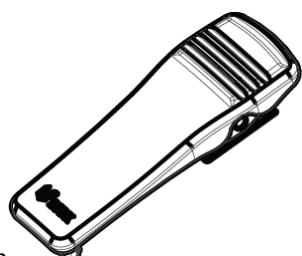
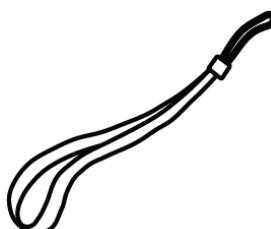
Accessory

Items	Model	Qty
antenna	BF-RA103	1

strap	BF-RL801	1
belt clip	BF-BS103	1
charger	BF-B33	1
Li-ion battery	BF-A33	1
instruction manual		1
warranty card		1
certificate		1

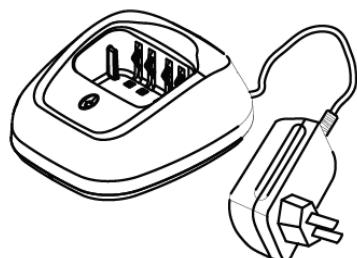
Antenna

Strap



Belt Clip

Charger



Li-ion Battery



Instruction Manual

installation of Accessories

Installation/ Removing the antenna

Hold the supplied antenna by its base ,then screw it into the connector on the top panel of the radio until fasten.

Turn the antenna anti-clockwise to remove it.

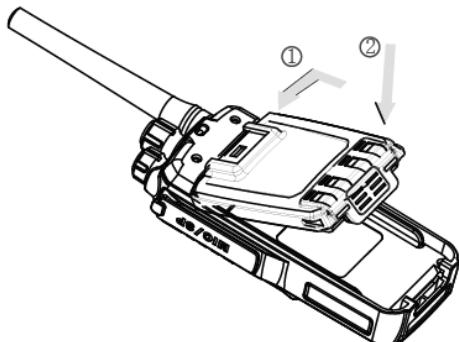


Attaching/Removing the Battery

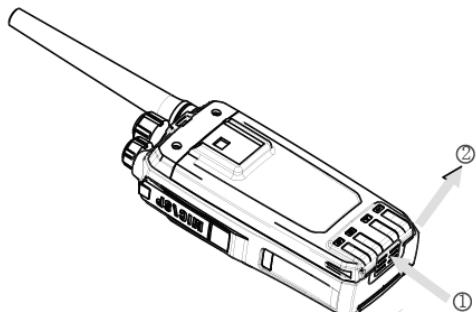
(Warning)

- Don't short-circuit the battery, it may cause the battery damaged or burst into flame;
- **Never attempt to remove the casing from battery, That avoid to short the battery terminal;**
- Battery is flammable objects, Don't throw it into fire or don't use it on dangerous area.

Match the guides of the battery with the corresponding grooves on the upper rear of the radio, then press the battery until a click is heard to lock it in place.



To remove the battery , Please turn the power off, then press the release latch to unlock the battery pull the battery away from the radio.



Note: Don't Attach / Remove the Battery if the transceiver turned on .

Li-ion battery features

- New batteries are activated from factory, Please charge your battery before using it .The maximum battery capacity and performance is achieved after three full charge/ discharge cycles.
- The service life of batteries : Charge cycles time is limited, To Prolong Battery Life try to reduce make charge by the battry remained.
- To reduce self-discharge, Please remove the battery before younot in use for a long time , And store your battery in a cool, dry location.
- Charge your battery about 50% before you store it for a long time , So that can prevent to decreased the battery performance.

As the battery is charged and discharged repeatedly, the battery capacity decreases,Even if the battery is unused,the battery degrades,store battery in a high temperature will shorten its lifecycle.

Charging the Li-ion battery

When the battery power runs low,the radio will send alert Sounds, please recharge the battery.
please only use the battery and charger specified by BeiFeng.

When charging a battery attached to a radio ,Please turn the radio off.

Please don't remove the battery from the charger before fully charge , or the battery could suffer damage.

Please remove the battery timely when the battery is fully charged.

Notes: While the battery is charged ,the ambient temperature must be within 0~40, Temperature out of the limit may reduce working life or Charging efficiency.

charging steps

- 1.Place the battery or the radio is attached with a battery in the charger.
- 2.Plug the AC connector of the switching power into the outlet socket.
- 3.Macking sure the battery is connected to the charger, The charging process initiates when the charger indicator glows red.
- 4.The charger indicator glows green when the battery is fully charged.

Note: Make sure the battery is connected to the charger ,But the charger indicator not glow, Maybe the battery /charger has damaged or temperature out of the limit.

Attaching/Removing the belt clip

Attach the belt clip using the two supplied3*4mm binding screws.

Attaching/Removing the strap

Thread the hand strap to the loop on the right and back of your two-way radio.)

Attaching the Speaker/Microphone

Open the accessory jack cover, then align the plug with the accessory jack and tighten the screw on the plug.



About the radio



LED Indicator

When transmitting LED glows red.

When receiving LED glows green.

When powering on LED flash turns orange.

When scanning LED flashes orange.

Power /Volume

Power switch/volume adjust keys

Turn clockwise to switch the radio power on, When the radio is turned on, rotate Clockwise to increase volume, counter clockwise to decrease the volume. Turn counterclockwise fully to switch the radio off.

Channel Selection Knob

Turn the knob to select channel 1-16.

Orange keys

This key is a programmable button.(the Detailed consult to Basic operation)

Programmable keys are including functions listed below:

Unassigned、One touch call 1~6、Manual dial、Monitor、Emergency on/off、Backlight automatic on/off、keypad Lock、Scan on/off、All alert tone on/off、Message、Zone selection、Address list、Device enable、Device disable、Device check、Remote monitor、High/low power、Repeater/talkaround、VOX on/off

Selection key

Press up or down to select the menu function item, Press left or right to read longer messages.

Left key

Press to move to the next step or save the setting.

Menu key

Press to enter menu mode, you can select the desired menu item.

Right key

Turn back to the previous menu.

Home key

Press quickly return to home screen.

PTT key

Press and hold down the PTT key then speak into the microphone to transmit.

Q Button 1

Programmable button.(the Detailed consult to Basci operation)

Q Button 2

Press to activate the programmable function .(the Detailed consult to Basci operation)

Q MIC-SP-USB jack

Connect to optional speaker/Mic and USB programming cable.

Q Speaker

Q Microphone

Basic Operation

LCD Icons

H/L	High/low Tx power
	Scan
	First priority channel
	Second priority channel
	digital Mode
	Analog Mode
	Private Call
	Group
	All Call
shows white	Unread message
shows yellow	Inbox full
	Missed call
	eypad lock
	mute
	Emergency alarm

	VOX on
	Plug in headphone
	Direct /talkaround mode
	Duplex mode on
	Monitor
	Linked Computer
	Battery Capacity Green: means the battery is sufficient green : Yellow :battery capacity is medium, Red: Low battery

Turning the power on /Turn off

Rotate the Power switch/volume adjust keys clockwise to turn the power on ..

Rotate the Power switch/volume adjust keys anti-clockwise to turn the power off .

Adjusting the volume

After the radio is power on, you can rotate the Power switch/volume adjust keys to adjust the volume level, Rotate the knob clockwise to increase the volume ,Or rotate the knob anti-clockwise to decrease the volume.

Selecting a Channel

Turn the Channel Selector Knob to select channel 1to 16,Make sure the white line on the knob points at the desired channel number.

Note:



If a channel is available, there will be a channel No ;

If a channel is not programmed, the display shows: unprogrammed, also with a beep.

Transmitting

- 1,make sure the channel you use is not occupied by other radio.
- 2.Press and hold down the PTT key, than speak into the microphone.
- 3 Please keep the microphone 3~4cm away from you, speaking with normal voice .
- 4 Press the PTT button, LED indicator glows red ,means transmittance.
- 5.Release the PTT key to receive.

Receiving

When a call is received successfully, the LED indicator glows green ,on the condition that you received the correct decode. Corresponding icon (Private Call/ Group Call / All Call) and ID or name will be displayed.

When a Private Call or Group Call is received, you may press the PTT key to call back.

On analog channel:

While received weak signals and the radio sets high SQL,the receiving party will fail to receive

incoming calls.

CTCSS/CDCSS may set by your local distributor. When the channel is set with CTCSS/CDCSS, the user can only receive the calls on the same channel with same CTCSS/CDCSS.

Button setting

For enhanced convenience, you may program the keys SK1, SK2, SK3, short and Long press of a key can be assigned with different functions.

Programmable keys are including functions listed below:

- Unassigned: this key is not assigned with any function.
- 1-6: One touch call 1~6: Allow user to initiate digital group call, digital private call, call alert or send quick message via the One Touch Call function.
- Manual dial: You can manually input the private call number for calling .
- Monitor: enable monitor function.
- Emergency on/off: Allow user to make an emergency call.

Note: this function can only be set to the orange key, While the short press be set as emergency on, the long press will be set as emergency off default.

Backlight automatic on/off: This function can let user to make the backlight to automatic on or still on . the light will keep on all the time when the backlight on, ,while you select automatic on ,the light will become dark after 5s you don't operate the key.

- : keypad Lock: when the whole keypad was locked. only the PTT key and side keys are valid .Press this button again or press MENU +# key to unlock.
- Scan on/off: Allow user to enable or disable the scan function.
- All alert tone on/off: Allow user to enable or disable all alert tones.
- Massage: This function allows you to enter SMS shortly and conveniently.
- Zone selection: This function enables you to select any zone among all the 50 zones. .
- Address list: This function allows you to enter Address list promptly
- Revice : this can allow you to revive other radios.
- Kill: This can allow you to kill other radios..
- Device self-inspection: This can enable the device to self-inspection.
- Remote monitor: enable remote monitor function.
- High/low power: Allow user to switch between high power and low power.
- Repeater/talkaround: allow radio set to connect through repeater or achieve standalone communication in talkaround mode.
- VOX on/off: This function will convenient to enable VOX function.The default level is 3, and the VOX delay is 3.0 sec.

Note: The VOX function shall work with a dedicated headphone.

While the radio working on analogy mode, Programmable keys can be programmed to those functions list: Unassigned, monitor, backlight automatic on/off, keypad lock, scan on/off, all alert tone on/off, zone selection, high/low power, repeater/talkaround, VOX on/off

Functions and Operations

Digital channel

Contacts

Press the MENU to access the contact list. On the contacts ,you can search address list members,add new contacts,manual dial .Via the programing software ,you can add private call /group call/all call,while in the radio you can only add private call type.

1. Private Call

- Search:In this function you can search address list members, While you want to transmit a Private Call via the address list ,the screen display as following:

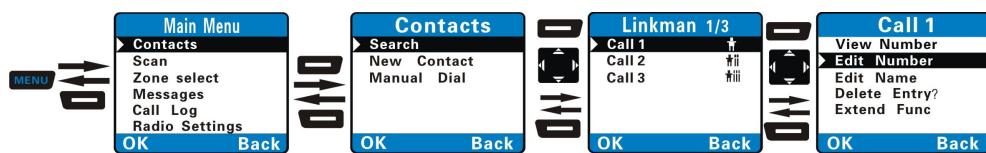


- View number: used to view ID number of a contact in the address list.

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Cal

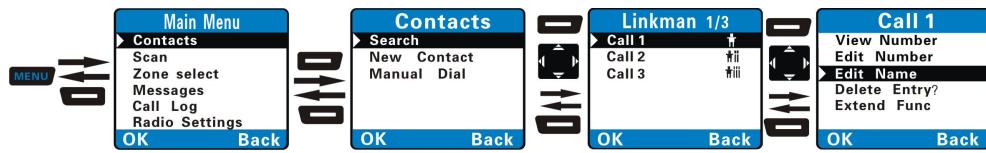
Edit number: modify the number in the address list. While you modify the number,press

key to delete than input the desired number ,press key to store the setting .



Edit name :To rename a contact in the address list. Press key to delete ,press to switch input method,you can select number / capital or small letter/ Chinese pinyin mode .input

the desired name .Finally press key to store the setting .



Delete items :Delete unwanted contacts from the address list.



Note: while the contacts item add in the default address or one touch call ,That you will unable to delete the item.

Extend Function

Call Alert: Allow user to transmit a call alert through the menu . Call Alert is used for prompting the receiver, ask them respond to transmitter if communication is available. The user can receive alert tone Only when a channel is available. On digital mode, a radio only transmit call alert to the other.



Device check: This function can check if the target radio is active in the system while don't send any tone alert to the target two-way radio. When the radio is available ,the screen displays:target radio available,while the radio is unavailable, the screen displays: target radio not activate.



Device revive : Allow a user to send "Device enable" command to the target two-way radio via menu. "Device Enable" command is used to enable disabled target device.



Device disable: Allow a user to send "Device Disable" command to the target device via menu. If the device is lost or stolen, a user can use this function to disable the device. However, this device will continue monitoring air interface to receive its "Device Enable" command.



Remote monitor: Allow a user to send a "Remote Monitor" request to the target device via menu. If the request is successful, the MIC and transmitter will be enabled for the target device for remote monitor.



(Group call) ()

While you want to transmit a group Call through Contact List ,The screen display as following:



View number : used to view group ID number of a contact in the address list.



(All call

While you want to transmit a all Call through Contact List ,The screen display as following :



View number : used to view all call ID number of a contact in the address list.



4.New contact

You can add a Private Call contact to the contact list. The number and alias of each contact must be unique, and the available number range is 1-16776415.While you want to add a new

contact,firstly,to input number and press - key to store number,then input name ,Press key to modify, key to switch input method.Next,press key to store the setting.The screen display: Entry Save.)



5.Manually Dial



This function convenient to user dial to linkman while it don't store in the address list . Allow user input the Private Call ID number through the number key,After you input the ID number ,then

press PTT_key to transmit.Or press  key to select call alert ,device check, remote monitor ,device enable ,device disable to operate.

②Scan

● Scan on /off

Allow user to enable or disable scan function for the current channel via menu. Scanning allows the device to search the scan list connected to the current channel to locate qualified channel for receiving or voicing. While scan on ,the screen display ,and LED Indicator flashes orange.



Scan off:Press Menu key to reaccess the scan list ,and select Turn off then press –key to store the setting .



● View/Edit list

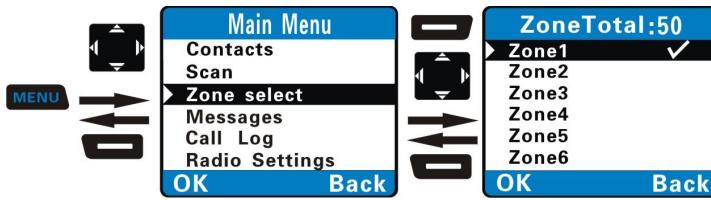
Revive

Allow a user to view/edit the scan list via menu, "View Member" allows a user to execute some operations to the scan list, such as viewing the scan member ,changing priority of scan member, deleting a member from the scan list;Add Member allow a user to add a new member to the scan list or editing priority of scan member. It is not allowed to create a new scan list or delete existing scan lists from the device.Digital and Analog channel will be appear in the same scan list.



Zone selection (This operation can be valid when there are more than 2 zones.)

The radio supports up to 50 zones, each of zone supports 16channels, totally 160 channels supported.When a desired zone is selected, the screen prompts you with "selected" and display .



④Messages

● Inbox

Inbox can store up to 50 messages. In inbox, press key to view messages, where you can reply to a message, forward or delete a message. After reading the message, behind the message will display : , behind the unread message will display : .



● Write SMS

Edit a new message (up to 140 characters) to send it to an individual or group. When editing a message in the write box, press key for deletion and modification and press key for switching input method, press key to switch input cursor. For non-numeric input method,

key is a symbol key. Key is a space key. After the message is edited, you can select a contact from the address list which the message is sent to or manually dial a number to send to. After succeeded to send the message, the screen display : message sent. While the message send failed, you can resend/ forward /Edit or delete the message.



●

Pre-Text (On the programming software you can add up to 10 messages to the "Preset Message" list)

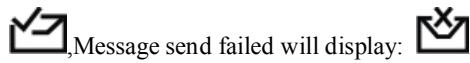
Messages preset using a programming software can be directly sent or a saved message can be edited before sending.



Note: While editing the message , press * key to modify, and press key for switching input method,press key to switch input cursor. For non-numeric input method, key is a symbol key. Key is a space key.

●Outbox

Outbox can store up to 20 messages,On outbox press key to view the and press this key again to re-send , edit ,forward or delete the sent message.Message send successful will display



Message send failed will display:



●Delete Message

This function is convenient to delete all message on Inbox or Outbox ,Clear All will delete all messages on Inbox and Outbox at the same time ,but the pre-text messages can't be deleted.



⑤Call Log

●Missed

Allow a user to view last 20 missed call logs. When there is a missed call,the screen display , This log also can be a shortcut for a user to originate a call. A user can access missed call log via menu, and press key to view missed call log and Press PTT to transmit . or press key again to store the missed item into the address list or directly deleted .



●Answered

Allow a user to view last 20 Answered call logs. This log also can be a shortcut for a user to originate a call. A user can access answered call log via menu,and press key to view answered call log and Press PTT to transmit . or press key again to store the answered item into the address list or directly deleted .



●Dialed

Allow a user to view last 20 Dialed call logs. This log also can be a shortcut for a user to originate a call. A user can access dialed call log via menu,and press key to view dial-out call log and Press PTT to transmit . or press key again to store the Dialed item into the address list or directly deleted .



●Delete All

This function is convenient to delect Missed call logs Answered or Dialed call logs,Clear All will delect all call logs at the same time.



⑥ Radio settings

Allow a user to perform basic settings for the two-way radio.

●Tone/Alerts:Allow a user to enable or disable all tones / alerts via menu. Tone alerts include settings of all tones, keypad tone,call permit, message tone.If disable all tones, and enable other prompt tone is also in vain.keypad tone to control press keypad tone,can set is as On or Off; Call

alert tone and Message tones can select tone 1to10 or disable it to select no style.



TX Power : Allow a user to select high/low TX Power via menu.High Power display with H,Low power display with L.



delete ere are more than 2 zones



Backlight: allow a user to change backlight setting via menu.You can select Auto or Turn on , while you select automatic on ,the light will become dark after 5s you don't operate the key,And the light will keep on all the time when the backlight turn on.



●Intro screen: allow a user to enable or disable the Intro Screen via menu. If the Intro Screen is enabled, While the radio power on ,the screen display Beifeng Logo and Device name;While the Intro Screen is disable ,the screen only displays Device name .



Keypad Lock: allow a user to enable or disable keypad lock via menu. While Keypad locked the screen displays: ,That you can't operate the keypad except PTT key and aside key.Press MENU key and # key to unlock.



●Language: This radio only supports two languages: Simplified Chinese and English.



- LED indicator: To set whether to enable LED indication via menu. While disable all indicator , the screen becomes dark and Tx red indicator ,Rx green indicator ,scan orange indicator are off. Please use this function with due care.



- Allow a user set radio in talkaround mode via menu. While enable talkaround function, the screen displays: . By this time TX frequency the same as to RX frequency.

Note: to enable this function, TX frequency should be different from RX frequency, and the channel will set as allow talkaround on the programming software.



Application:

1) Within in communication range of the two-way radio, when long time communication is required, to avoid busy repeater, you can invite the other party to communicate in the same frequency in talkaround mode.

2) Communicate in the effective coverage range of the repeater.

Note: exit from the talkaround mode after communication, otherwise, you may be unable to communicate with other members in the network.

● While this function is enabled, you can enjoy hands-free communication .The radio will automatically begin transmitting when you speaking,And terminate transmitting when you stop talking with no need of PTT press. Allow user to set the vox level(level 1-8) and VOX delay(0.5~10second) via menu.VOX on the screen displays : .



Note: This feature can

Note: The VOX function only be used if you are using a supported headphone.

⑧ Radio Info

This function allow a user to view related device information.

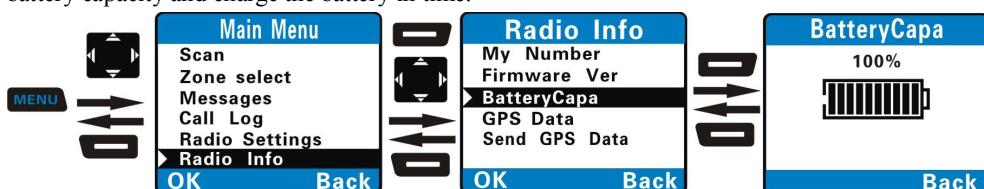
- My number: allow a user to view the radio ID number, which is same as device ID.



Firmware version: view firmware version information.



Battery capacity: To view the radio's remain battery capacity. It's convenient for user to know battery capacity and charge the battery in time.





Squelch: on the analog mode, allow user to set squelch level . When you are receiving while the squelch function is on weak signals may become intermittent. The function can filter out background noise. You can set SQL1~9, Level 3 is set to its basic setting .

CTCSS Standard frequency table

QT No.	[Hz]	QT No.	[Hz]	QT No.	[Hz]	QT No.	[Hz]
1	67.0	11	94.8	21	131.8	31	186.2
2	69.3	12	97.4	22	136.5	32	192.8
6	79.7	16	110.9	26	156.7	36	225.7
3	71.9	13	100.0	23	141.3	33	203.5
7	82.5	17	114.8	27	162.3	37	233.6
4	74.4	14	103.5	24	146.2	34	210.7
8	85.4	18	118.8	28	167.9	38	241.8
5	77.0	15	107.2	25	151.4	35	218.1
	88.5		123.0	29	173.8	39	250.3

10	91.5	20	127.3	30	179.9		
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CDCSS standard code table

D023N	D071N	D134N	D223N	D306N	D411N	D503N	D631N	D734N
D025N	D072N	D143N	D226N	D311N	D412N	D506N	D632N	D743N
D026N	D073N	D152N	D243N	D315N	D413N	D516N	D654N	D754N
D031N	D074N	D155N	D244N	D331N	D423N	D532N	D662N	
D032N	D114N	D156N	D245N	D343N	D431N	D546N	D664N	
D043N	D115N	D162N	D251N	D346N	D432N	D565N	D703N	
D047N	D116N	D165N	D261N	D351N	D445N	D606N	D712N	
D051N	D125N	D172N	D263N	D364N	D464N	D612N	D723N	
D054N	D131N	D174N	D265N	D365N	D465N	D624N	D731N	
D065N	D132N	D205N	D271N	D371N	D466N	D627N	D732N	
D023I	D071I	D134I	D223I	D306I	D411I	D503I	D631I	D734I
D025I	D072I	D143I	D226I	D311I	D412I	D506I	D632I	D743I
D026I	D073I	D152I	D243I	D315I	D413I	D516I	D654I	D754I
D031I	D074I	D155I	D244I	D331I	D423I	D532I	D662I	
D032I	D114I	D156I	D245I	D343I	D431I	D546I	D664I	
D043I	D115I	D162I	D251I	D346I	D432I	D565I	D703I	
D047I	D116I	D165I	D261I	D351I	D445I	D606I	D712I	
D051I	D125I	D172I	D263I	D364I	D464I	D612I	D723I	
D054I	D131I	D174I	D265I	D365I	D465I	D624I	D731I	
D065I	D132I	D205I	D271I	D371I	D466I	D627I	D732I	

Note: The radio approve of non-standard code ,on analog mode,you can input non-standard code as you need.

Statement

Our Company endeavors to achieve the accuracy and completeness of this manual, If you have any question, you can contact with us , We will make a detailed answer to you in time. All the above specifications and design are subject to change without prior notice due to continuous development.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct.

The interference by one or more of the following measures:

- Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation.

Note: "Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."

To control your exposure and ensure compliance with the occupational/controlled environment exposure limits always adhere to the following procedures.

Guidelines:

- Do not remove the RF Exposure Label from the device.
- User awareness instructions should accompany device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50 % of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).
- Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. Antenna should be kept away from eyes.
- When worn on the body, always place the radio in a Beifeng's approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of Beifeng's or other manufacturer's non-approved accessories may result in exposure levels, which exceed the FCC's occupational/controlled environment RF exposure limits.
- If you are not using a body-worn accessory and are not using the radio in the intended use position in front of the face, then ensure the antenna and the radio are kept at least 2.5 cm (one inch) from the body when transmitting. Keeping the radio at the proper distance is important because RF exposures decrease with increasing distance from the antenna.
- Use only manufacturer's name approved supplied or replacement antennas, batteries, and accessories. Use of non-manufacturer-name approved antennas, batteries, and accessories may exceed the FCC RF exposure guidelines.
- For a list of Beifeng's approved accessories(see the user manual), or (visit the following website which lists approved accessories: <http://add website address>), or(The manufacturer should include the appropriate bracketed item{s} in the manual.)

EU Regulatory Conformance

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC. Please note that the above information is applicable to EU countries only.

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