

HYDX-A588 User manual

Thank you for purchasing the professional wireless communication products !
The company professionally devotes itself to the research and exploration of wireless communication technology, leading the industry's intelligent technology, based on the research and design of complex and changeable communication environment in modern society, you can also customize exclusive communication solutions based on your industry attributes. Excellent product performance and excellent communication performance are the best choice for you to easily grasp the overall situation and realize intelligent scheduling and instruction transmission in any field.

Warnings!

In flammable and explosive environments (gas stations, gas stations, textile factories and other areas with more combustible gases and dust), please turn off the interphone power supply.

Instructions before use

Understand the following safety precautions to avoid damaging this product and causing other personal injuries. In order to avoid possible dangers, please read this manual carefully before using the product and use this product according to regulations.

- ◆The recommended walkie-talkie usage is 1 minute for transmitting and 4 minutes for receiving. Continuous emission for a long time will cause the back of the machine to heat up. When placing this walkie-talkie, do not make the rear contact with the surface of objects with low melting point and low ignition point (such as plastic, etc.);
- ◆Do not let the walkie-talkie be exposed to direct sunlight for a long time, and do not place the walkie-talkie in places with high heat, humidity, dust and splashing water, nor put it on unstable surfaces.
- ◆When the walkie-talkie is forbidden or the use of the Walkie-Talkie will cause interference or danger, please observe the relevant regulations and turn off the power supply of the walkie-talkie.
- ◆When driving, please do not try to operate the interphone, otherwise it may lead to dangerous consequences.
- ◆Please keep the surface of the product clean and dry. If cleaning is needed, please wipe the surface of the product with a wet but not dripping soft cloth (soft detergent or clear water can be used) after shutdown.

Directory

Unpack and check the Device	4
Accessories	4
Charging Battery	4
About Radio	5
The parts of radio	5
LCD Display	6
Basic Operations	7
Functions and Operation	8

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Unpack and Check the Device

Please take the walkie-talkie out of package carefully. We recommend that check all the accessories as the below table list before you discard the package. If you find any accessory is missing or damaged, please contact your local seller.

Accessories

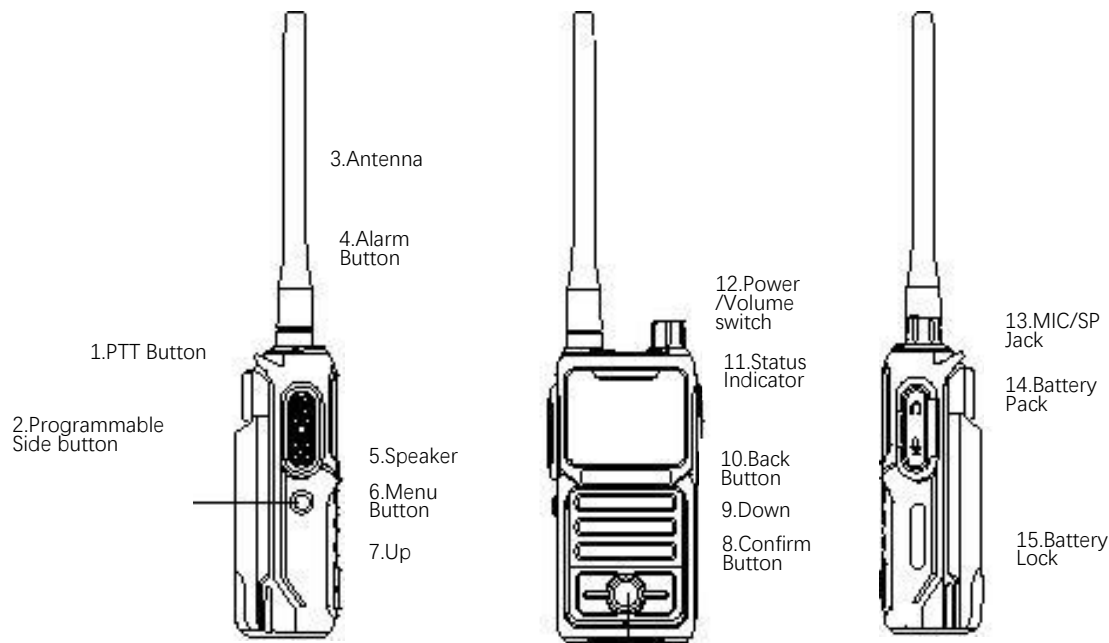
Item Name	Quantity
Antenna	1
Hand-Strap	1
Belt Clip	1
Charge	1
Battery	1
Manual	1

Charging Battery

Please use the specified charger to charge the battery: the indicator light of the charger can show the charging status.

Charging Status	Indicator Show
Battery charging mode	The Red Light is on
Full battery	The Green Light is on

About Radio



The parts of radio

1. PTT Button:

A: Press PTT can talk

2. Programmable Side button:

A: Set as the CTCSS/DCS menu: Short press will switch: OFF -> CTCSS ->DCS N -> DCSI -> OFF

B: Short press activate the function you set.Optional Function: scan, vox,sub-channel transmit, NOAA, Monitor(Cancel squelch);

C: Long press activate Monitor Function (Cancel squelch)

3. Antenna:

A: Receive and transmit signal

4. Alarm button:

A: In standby state, press this top Alarm button to activate Alarm.The Alarm mode can be programmed by its software. (local or local+ remote)

B: When alarm is on. No key operation will work.After sending the alarm bell for 20s, standby 10s and repeat again and again;

C: Press PTT button exit the alarm

5. Speaker:

A: Output Audio

6. Menu button:

A: Press will into Menu setting

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7. Up:

- A: In the programming setting, press the up button;
- B: In channel mode standby, switch scan direction in scan mode;
- C: Long press to achieve quick rollover

8. Confirm Button:

- A: In menu operation, short press to confirm;
- B: In standby, long press to open or close the keyboard lock

9. Down:

- A: In the programming setting, press the down button;
- B: In channel mode standby, switch scan direction in scan mode;
- C: Long press to achieve quick rollover.

10. Back Button:

- A: Short press during menu operation to return to the previous level, short press during standby to switch the main frequency to A or B;
- B: Long press to start scanning; Activate NOAA channel scan when NOAA is on. When NOAA is off or standby, press to activate radio scan

11. Status Indicator

- A: The red light is on when transmitting, and the green light is on when receiving.

12. Power/Volume switch:

- A: Turn on or off the walkie-talkie/ Adjust the volume of the walkie-talkie

13. MIC/SP Jack:

- A: It is used for external earphones, and can also be connected to the programming cable to program your radio

14. Battery Pack:

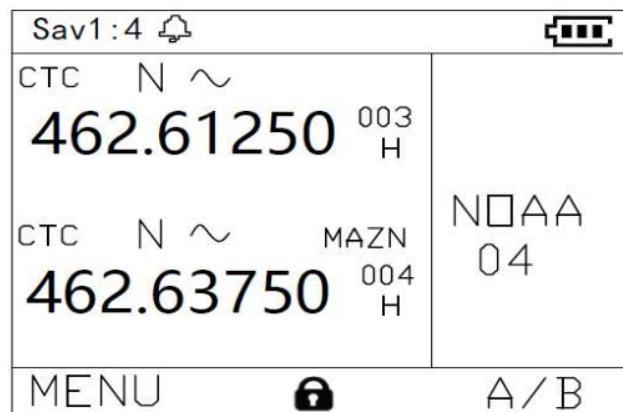
- A: Supply power for your walkie talkie





15. Battery Lock:

- A: Used for installing/removing battery pack

LCD Display

Walkie Talkie LCD display as follows:



No	Icon	Describe
1	Sav1:4	Save Mode 1: 4
2		KeyTone
3		Battery Status
4	CTC	CTCSS/DCS
5	N	Narrow Band
6		Companding Function
7	462.61250	A Band Working Frequency
8	003 004	Current Channel Number
9	H	High Power
10	MAZN	Current Working Channel
11	462.63750	B Band Working Frequency
12	NOAA	NOAA
13		Keypad Lockout
14	MENU	Menu
16	A/B	A/B Band Switch

Basic Operations

1. Power On:

A: When the radio is off, turn the power/volume switch knob clockwise to power on the walkie-talkie.

2. Power Off:


A: In the power-on state, turn the power/volume switch knob counterclockwise to power off .




3. Adjust the volume:

A: When turned on, turn the power/volume switch knob clockwise to increase the volume; turn the power/volume switch knob counterclockwise to decrease the volume.

Functions and Operation

1. Key Menu

A: In standby, Press  button into menu; LCD display shows menu introduction and settings.

B: Press  /  button choose the menu you want, press  to confirm into setting.

C: Press  /  button to choose the setting you want, press  to confirm your setting.

D: Press  button to exit the menu.

2. Battery

A: When the battery is fully charged, the green battery icon will be displayed on the upper right corner of the LCD display;

B: When the battery is low, the battery is marked yellow.

C: When the battery is low power, the battery is marked with red; and the red flashed and voice prompts: "low power"

D: When the battery is about to run out, radio will automatically shut down. The LCD display will show: "please charge!" before shutting down.

3. NOAA function

A: When activating the NOAA, the squelch is also turn on. The state will be maintained for 300 seconds(5 minutes) to return back to Channel Mode

B: In NOAA working mode, radio can't receive and transmit signal.

C: When the NOAA watch function is enabled: In both NOAA and channel mode, you need to receive 1050Hz signaling to enable NOAA reception, otherwise you cannot switch to NOAA mode.

D: In NOAA and Channel mode dual watch duty: At 1050Hz, it will switch to the receiving state after the "beep, beep" tone is emitted.

4. Squelch level

A: This function can filter out incoming signals that are not strong enough to produce clear emissions to eliminate unwanted noise.

B: Squelch level 0~9 can be selected, under normal circumstances, the default setting is: 5; users can set the appropriate squelch mode according to their needs.

5. CTCSS/DCS

You can set CTCSS/DCS. Select the CTCSS/DCS to encode or decode from the existing list. (For specific CTCSS/DCS value, please refer to the following CTCSS/DCS tables)

A: Decode: The walkie-talkie at the receiving end needs to decode the subtones sent by the walkie-talkie at the sending end. When the subtone set here matches the subtone from the sender, the speaker will be turned on and the voice will be output;

B: Encode: The radio at the transmitting end encodes the sub-tones before sending the voice and adds the code to the voice and sends it out through the carrier. The receiver will

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turn on the speaker and output the voice when it receives a match with the sub-tone set here.


6. Switch working channel

The current working interface can be set to different frequencies of the A/B band, and the A/B band will be standby working when the dual watch function is turned on. Press key to switch between A/B. In the upper right corner of the current working frequency band, display.


7. Power saving mode

Enabling this function can make the walkie-talkie automatically enter the power-saving mode. The power-saving mode can extend the battery standby time, but it will also cause a delay in response time. The user can set the wake-up time ratio when the machine enters the power-saving mode. You can choose 1:4, 1:8, and off. The smaller the ratio, the more obvious the radio enters the power-saving mode. The default power-saving mode: **Sav1:4**.

8. Key tone

Allow users to turn on and off the key tone through the menu. The icon is displayed  when it is turned on, and it is not displayed when it is turned off.

9. Companding function


This function is an audio companding function that can improve the signal-to-noise ratio of the received audio signal, make the subject's voice clearer and reduce background noise. Show  when turned on: No icon will be displayed when turned off.


10. Power selection

Allows the user to adjust the high/low of the radio transmission power through the menu. High power display: H, low power display: L.

11. Keyboard lock

Allow users to lock the keyboard through the menu. The keyboard lock screen displays

 . In the keyboard lock, except PTT and side keys, no other key operations can be

performed; long press  to unlock and lock operations.

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Menu Definition

No	Function	Parameter	Note
1	Channel Mode	Full Frequency/channel frequency/channel number/Channel name	
2	CTCSS/DCS	OFF/67.0-254.1/023N-754N/023I-754I	Short Press PF key to switch the Subtone type, Press ▲/▼ to select the group you want
3	CTCSS/DCS	OFF/67.0-254.1/023N-754N/023I-754I	
4	Transmit power	High/Medium/Low	
5	Squelch Level	0、1、2...9	
6	Power saving ratio	Off/1:4/1:8	
7	Dual-frequency waiting	Off/On	
8	Backlight duration	5S/10S/30S/Always	
9	Background color	Black, white, green, purple, blue, yellow, green, red	
10	Key Tone	Off/On	
11	Voice prompt	Off/On	
12	Transmit Limited	Off/30S/60S/90S/.../300S	
13	Voice control gain	Off/1/2/.../9	
14	Voice control delay	0.3S/0.5S/1.0S/1.5S/2.0S/3.0S	
15	Transmit tone	Off/1/2/.../9	
16	Side key definition	Off/Scan/VOX/ Secondary frequency transmission / Meteorological Channel /Monitor	
17	Scanning mode	Time/Search/Carrier	
18	Automatic keyboard lock	Off/On	
19	Step frequency	5K/6.25K/10K/12.5K/25K/37.5K/50K/100K	Disable operations in non-full frequency mode

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20	Frequency difference direction	Disable/Increase/decrease	Disable operations in non-full frequency mode
21	Frequency difference	0.000-99.995MHz	Full frequency mode
	Edit channel name	1-9/A-Z/a-z/!@\$	Channel frequency, channel number, channel name
22	Bandwidth selection	Wide/Narrow Band	
23	BCLO	Off/carrier/Subtone	
24	Call Settings	Off/Compandor/Scrambler	
25	Scrambler Group	1/2/3/.../8	
26	Channel Scanning	Add/Delete	
27	Storage Channel	001/002/.../128	
28	Delete a channel	/	
29	Meteorological Channel	Off/On	
30	Initialization	Menu Settings/ALL SETTINGS/Firmware version	

CTCSS Table

CTCSS No.	Frequency [Hz]	CTCSS No.	Frequency [Hz]	CTCSS No.	Frequency [Hz]	CTCSS No.	Frequency [Hz]
1	67.0	14	103.5	27	159.8	40	199.5
2	69.3	15	107.2	28	162.2	41	203.5
3	71.9	16	110.9	29	165.5	42	206.5
4	74.4	17	114.8	30	167.9	43	210.7
5	77.0	18	118.8	31	171.3	44	218.1
6	79.7	19	123.0	32	173.8	45	225.7
7	82.5	20	127.3	33	177.3	46	229.1
8	85.4	21	131.8	34	179.9	47	233.6
9	88.5	22	136.5	35	183.5	48	241.8

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10	91.5	23	141.3	36	186.2	49	250.3
11	94.8	24	146.2	37	189.9	50	254.1
12	97.4	25	151.4	38	192.8		
13	100.0	26	156.7	39	196.6		

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CDCSS Standard Table

CDCS S No.	Encod e	Decod e	CDCS S No.	Encod e	Decod e	CDCS S No.	Encod e	Decod e
1	D023N	D023I	29	D174N	D174I	57	D445N	D445I
2	D025N	D025I	30	D205N	D205I	58	D464N	D464I
3	D026N	D026I	31	D223N	D223I	59	D465N	D465I
4	D031N	D031I	32	D226N	D226I	60	D466N	D466I
5	D032N	D032I	33	D243N	D243I	61	D503N	D503I
6	D043N	D043I	34	D244N	D244I	62	D506N	D506I
7	D047N	D047I	35	D245N	D245I	63	D516N	D516I
8	D051N	D051I	36	D251N	D251I	64	D532N	D532I
9	D054N	D054I	37	D261N	D261I	65	D546N	D546I
10	D065N	D065I	38	D263N	D263I	66	D565N	D565I
11	D071N	D071I	39	D265N	D265I	67	D606N	D606I
12	D072N	D072I	40	D271N	D271I	68	D612N	D612I
13	D073N	D073I	41	D306N	D306I	69	D624N	D624I
14	D74N	D74I	42	D311N	D311I	70	D627N	D627I
15	D114N	D114I	43	D315N	D315I	71	D631N	D631I
16	D115N	D115I	44	D331N	D331I	72	D632N	D632I
17	D116N	D116I	45	D343N	D343I	73	D654N	D654I
18	D125N	D125I	46	D346N	D346I	74	D662N	D662I
19	D131N	D131I	47	D351N	D351I	75	D664N	D664I
20	D132N	D132I	48	D364N	D364I	76	D703N	D703I
21	D134N	D134I	49	D365N	D365I	77	D712N	D712I
22	D143N	D143I	50	D371N	D371I	78	D723N	D723I
23	D152N	D152I	51	D411N	D411I	79	D731N	D731I
24	D155N	D155I	52	D412N	D412I	80	D732N	D732I
25	D156N	D156I	53	D413N	D413I	81	D734N	D734I
26	D162N	D162I	54	D423N	D423I	82	D743N	D743I
27	D165N	D165I	55	D431N	D431I	83	D754N	D754I
28	D172I	D172I	56	D432I	D432I			