

S1 Pro Digital Portable Radio User Manual

Preface

Welcome to the world of Hytera and thank you for purchasing this product. This manual includes a description of the functions and step-by-step procedures for use.

To avoid bodily injury or property loss caused by incorrect operation, please carefully read the *Safety Information Booklet* before use.

This manual is applicable to the following product:

S1 Pro Digital Portable Radio

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Device must be restricted to occupational use to satisfy ISEDC RF exposure compliance. See User Manual for specific operating requirements.

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Documentation Information

Documentation Conventions

Instruction Conventions

Icon	Description	
Ü TIP	Indicates information that can help you make better use of your product.	
NOTE	Indicates references that can further describe the related topics.	
A CAUTION	Indicates situations that could cause data loss or equipment damage.	
MARNING	Indicates situations that could cause minor personal injury.	
A DANGER	Indicates situations that could cause major personal injury or even death.	

Notation Conventions

Item	m Description Example	
	Denotes menus, tabs, parameter names,	To save the configuration, click Apply .
Boldface	window names, dialogue names, and	The Log Level Settings dialogue box appears.
	hardware buttons.	Press the PTT key.
		The screen displays "Invalid Battery!".
" "	Denotes messages, directories, file names,	Open "PSS.exe".
	folder names, and parameter values.	Go to "D:/opt/local".
		In the Port text box, enter "22".
>	Directs you to access a multi-level menu.	Go to File > New.
Italic	Denotes document titles.	For details about using the DWS, refer to Dispatch Workstation User Guide.
Courier	Denotes commands and their execution results.	To set the IP address, run the following command: vos-cmd - m name IP

Key Operations

Operation	Description
Press	Press and release quickly.
Long press	Press and hold for preset time.
Press and hold	Keep the key pressed.

User Manual Packing List

1. Packing List

Unpack carefully and check that you have received the following items. If any item is missing or damaged, contact your dealer.

Item	Quantity (PCS)	Item	Quantity (PCS)
Radio	1	Battery	1
Antenna	1	Strap	1
Power Adapter	1	USB Type-C Cable	1
Documentation Kit	1	/	/

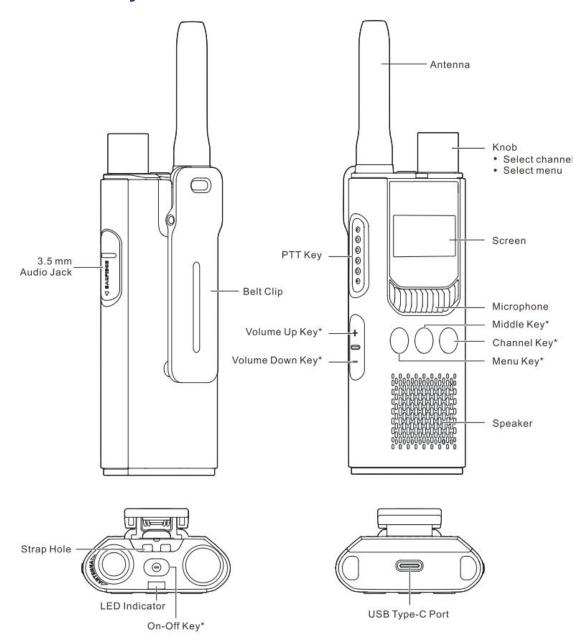


- Figures in this manual are only for reference.
- Check that the radio label in the battery slot matches the product you bought. If not, contact your dealer.

Product Overview User Manual

2. Product Overview

2.1 Product Layout



2.2 Programmable Keys

For convenience, you can assign the **On-Off** key, **Volume Up** key, **Volume Down** key, **Menu** key, **Middle** key, and **Channel** key as shortcuts to radio features through the Hytera Radio app.

Feature	Description
Channel Up	Allows you to switch to the previous channel list.

User Manual Product Overview

Feature	Description
Channel Down	Allows you to switch to the next channel list.
Scrambler	Allows you to turn on or off Scrambler.
Power Level Adjustment	Allows you to set the TX power level to high or low.
Squelch Off	Allows you to turn on or off Squelch Off.
Monitor	Allows you to switch between Monitor Squelch mode and Receive Squelch mode.
Keypad Lock	Allows you to lock or unlock the keypad.
Talkaround	Allows you to switch between Direct mode and Repeater mode.
VOX	Allows you to turn on or off VOX.
Scan	Allows you to turn on or off Scan.
Voice Notification	Allows you to turn on or off Voice Broadcast.
CH and Battery Voice Notification	Allows the radio to audibly convey channel number and battery level.
Mute Mode	Allows you to turn on or off Mute mode.
One Touch Call	Allows you to initiate a call to the specified contact on the digital channel.
Super Power Saver	Allows you to turn on or off Battery Saver mode.
Whsiper	Allows you to turn on or off Whsiper mode.

User Manual Before Use

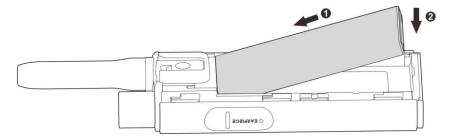
3. Before Use

3.1 Attach the Battery

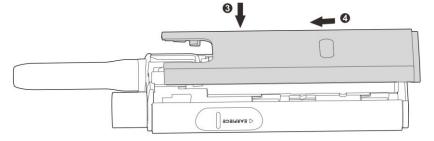


A CAUTION

- Use the approved battery to avoid the risk of explosion.
- Dispose of the used battery according to "Precautions for Disposal" in the Safety Information Booklet.
- Press the battery cover backward to remove the cover. 1.
- 2. Align the battery contacts with the tabs in the battery compartment, and then press the bottom of the battery downwards.



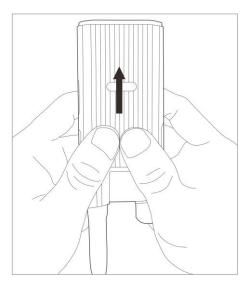
Place the hooks of battery cover to the slots, and then push the battery cover upwards until you hear a click.



3.2 Remove the Battery

- Turn off the radio.
- Push the battery cover downwards to remove the cover. 2.
- 3. Remove the battery.

User Manual Before Use



3.3 Charge the Battery



A CAUTION

- Use the power adapter approved only by the company.
- Read the Safety Information Booklet before charging.
- The remaining lithium-ion battery power is limited to 30% pursuant to the new lithium battery shipment regulation approved by the International Air Transport Association (IATA).

Use the USB Type-C cable to connect the radio with battery attached to the power adapter, power bank, or PC.

You can learn about the charging status through the LED indicators.

LED Indicator	Charging Status	
Glows red	The battery is being charged.	
Flashes red rapidly	The battery fails to be charged.	
Glows green	The battery is fully charged.	

3.4 Install the Antenna



CAUTION

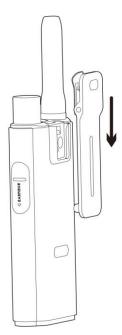
Do not hold the radio by the antenna and swing it. This may affect the antenna performance and shorten the life span of the antenna.

Before Use User Manual



3.5 Attach the Belt Clip

- 1. Align the holder on the belt clip with the groove on the battery cover.
- 2. Press the belt clip downwards into place.





You can press and hold the belt clip spring plate and push the belt clip upwards to remove it.

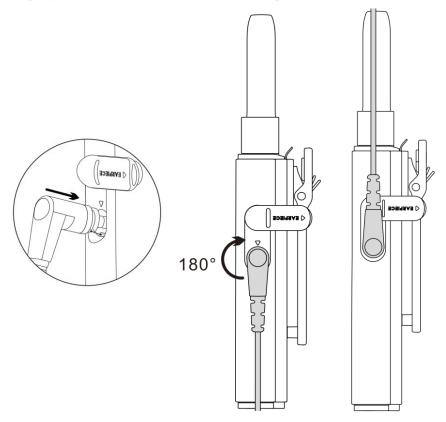
User Manual Before Use

3.6 Wear the Earpiece

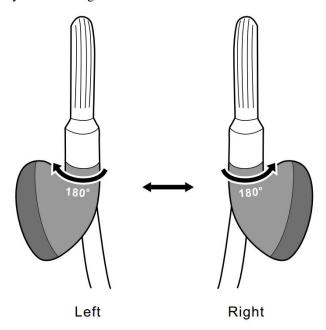


The radio is compatible with the EM31 earpiece. For details, consult your dealer.

1. Insert the earpiece plug into the audio jack, and then rotate the plug clockwise by 180°.



2. Rotate the earbud to fit to your left or right ear.



Basic Operations User Manual

4. Basic Operations

4.1 Turn On or Off the Radio

Long press the On-Off key.

4.2 Adjust the Volume

Press the Volume Up key to increase the volume, or Volume Down key to decrease the volume.

4.3 Switch the Work Mode

- 1. On the home screen, press the **Menu** key.
- 2. Select **Mode**, and then press the **Menu** key.

4.4 Switch the Channel List

- On the home screen, press the **Channel** key, and then select a channel list.
- Press the preprogrammed Channel Up key or Channel Down key.

4.5 Make a Call

To ensure optimal voice quality on the receiving radio, keep the microphone about 2.5 cm to 5 cm away from your mouth during speaking.

- Group call: On the home screen, rotate the **Knob** to select a channel, and then press and hold the **PTT** key.
- (Digital mode only) Private call: Go to Menu > Contacts to select a contact, and then press and hold the PTT key.

4.6 Check the Battery Power

Press the preprogrammed CH and Battery Voice Notification key.

You can learn about the remaining battery power through the LED indicators and Text To Speech (TTS).

LED Indicator	TTS	Battery Level
Glow green for 2s	Battery high	High
Glows orange for 2s	Battery medium	Medium
Glows red for 2s	Battery low	Low

User Manual Operating Status

5. Operating Status

You can learn about the radio status through the LCD icons and LED indicator.

5.1 LCD Icons

Icon	Radio Status	
III)	More bars indicate more remaining battery power.	
	The battery is running out.	
S	The radio operates in Battery Saver mode.	
¶ _D /¶ _R	The radio is standing by or transmitting. (D: Direct mode, R: Repeater mode)	
T T.11	More bars indicate stronger signal.	
	The radio operates in Low Power mode.	
H	The radio operates in High Power mode.	
D	The radio operates in Digital mode.	
A	The radio operates in Analog mode.	
3	The radio is scanning.	
•	The radio stays on an active channel.	
B	The radio stays on priority channel 1.	
æ	Keypad is locked.	
·B·	The radio is connected to the Hytera Radio app.	
0	The radio is connected to the earpiece.	
⊗	VOX is enabled.	
Ŕ	Mute mode is enabled.	
90	Analog mode: Monitor is enabled.	
-	Digital mode: Monitor Group with Same Frequency is enabled.	
*	Secure Call or Scrambler is enabled.	
«¢	Squelch Off is enabled.	

Operating Status User Manual

5.2 LED Indicator

LED Indicator		Radio Status
Flashes green		The radio is being turned on.
Glows red		The radio is transmitting.The radio is sending clone data.
Glows green		The radio is receiving.The radio is receiving clone data.
Flashes green once	every 0.2s for 5s	The radio has missed calls.
	Once every 0.5s for 1 min	The battery power is low.
Flashes red	Once every 0.2s	The radio is being programmed.The radio is being written clone data.
	Once every 0.2s for 5s	The radio is being searched by the Hytera Radio app.
Flashes orange	Once every second	 The radio is scanning. The radio fails to clone from other radios.
	Once every 0.2s for 15s	The radio receives connection request from the Hytera Radio app.
Glows orange		The call is on hold.

User Manual Settings

6. Settings

6.1 Set the Backlight

You can turn on the backlight to illuminate the LCD, which facilitates your operation under dim light.

1. On the home screen, go to **Menu > Settings > Backlight**.

2. Do either of the following:

If You Want to	Then	
Set backlight time	1. Select Time , and then press the Menu key.	
	2. Select a time, and then press the Menu key.	
	Select Brightness , and then press the Menu key.	
Adjust the brightness level	2. Select a brightness level, and then press the Menu key.	
	Higher level indicates higher brightness.	

6.2 Set the Tones

You can enable or disable tones for different operations.

- 1. On the home screen, go to **Menu > Settings > Tones**.
- 2. Select a service or operation, and then press the **Menu** key.

6.3 Lock or Unlock the Keypad

When the keypad is not in use, it is recommended that you lock the keypad to avoid misoperations.

Auto Lock

- 1. On the home screen, go to **Menu > Settings > Keypad Lock**.
- 2. (Optional) In the **Keypad Lock** interface, change the preset lock time.
 - a. Select Lock Time, and then press the Menu key.
 - b. Select a time, and then press the **Menu** key.
 - c. Press the **Channel** key.
- 3. Select **Auto Lock**, and then press the **Menu** key.

Manual Lock or Unlock

To lock or unlock the keypad, press the preprogrammed Keypad Lock key.

Settings User Manual

• To unlock the keypad, press the **Menu** key, and then press the **Middle** key.

6.4 Check the Radio Information

You can check radio information such as radio ID, alias, device name, firmware version, serial number, and model member.

On the home screen, go to Menu > Settings > Device Info.

7. Supplementary Services

7.1 Common Features

7.1.1 Voice Broadcast

With Voice Broadcast enabled, the radio can audibly notify you the key information.

When You	You Will Hear to Know
• Turn on the radio.	
• Press the preprogrammed CH and Battery	Current channel and battery level
Voice Notification key.	
Switch the channel through the Knob .	Channel number to which you just switch
Press the preprogrammed Channel Up key or Channel Down key.	Channel list to which you just switch

To turn on Voice Broadcast, do either of the following:

- On the home screen, go to Menu > Advanced > Voice Broadcast, and then press the Menu key.
- Press the preprogrammed Voice Notification key.

7.1.2 Power Level

Power Level allows you to set the TX power level to high or low. High power enables communication with radios far away from you but consumes more battery power. Low power enables communication with radios close to you and saves battery power.



The TX power of license-free channel is 0.5 W, and cannot be adjusted.

To adjust the power level, do either of the following:

Through Power Level Interface

- 1. On the home screen, go to Menu > Settings > Radio > Power Level.
- 2. Select **High** or **Low**, and then press the **Menu** key.

Through Programmable Key

Press the preprogrammed Power Level Adjustment key.

7.1.3 Mute Mode

Mute mode allows the radio to remain completely silent, muting all sounds including voice during a call. In this mode, the radio only outputs sound through the earpiece.

To turn on or off Mute mode, press the preprogrammed Mute Mode key.

7.1.4 Whisper

Whisper mode is used in quiet indoor environments, which allows you to be heard clearly even when you speak at a lower volume.

To turn on or off Whisper mode, do either of the following:

- On the home screen, go to **Menu** > **Settings** > **Whisper**, and then press the **Menu** key.
- Press the preprogrammed **Whisper** key.

7.1.5 Battery Saver

Battery Saver mode allows you to prolong the battery life significantly.



Battery Saver mode may increase delay for call initiation and establishment.

To turn on or off Battery Saver mode, do either of the following:

- On the home screen, go to Menu > Settings > Battery Saver, and then press the Menu key.
- Press the preprogrammed **Super Power Saver** key.

7.1.6 VOX

Voice Activated Transmit (VOX) allows the voice to trigger transmission. When the voice detected by the microphone reaches the value to trigger the transmission, the radio automatically transmits the voice without the **PTT** key pressed.

To turn on or off VOX, do either of the following:

Through VOX Interface

- 1. On the home screen, go to Menu > Advanced > VOX.
- 2. (Optional) Set the VOX level according to your need.
 - a. Select **VOX Level**, and then press the **Menu** key.
 - b. Select **High**, **Middle** or **Low**, and then press the **Menu** key.
 - c. Press the Channel key.

3. Select **VOX**, and then press the **Menu** key.

Through Programmable Key

Press the preprogrammed **VOX** key.

7.1.7 Radio Clone

Radio Clone allows you to wirelessly copy configuration data of a radio to another radio. The cloning data do not include radio ID, BT alias, and voice notification files.



- Radio Clone applies only to radios of the same model with the same frequency and software version.
- Radios in low battery power cannot enter Radio Clone mode.

Before Clone



It is recommended that you clone only one radio at a time.

- Prepare radio A (to be cloned) and radio B (to receive the cloned data).
- Make sure the two radios have enough battery power.
- Switch the radio A and the radio B to Radio Clone mode.

Radio	Operation	
Radio A	1. On the home screen, go to Menu > Advanced > Radio Clone .	
	2. Select Send Data , and then press the Menu key.	
	The radio A enters Radio Clone mode, and the LED indicator glows	
	red. If no radio clones data from the radio A in five minutes, it	
	automatically exits Radio Clone mode.	
Radio B	1. On the home screen, go to Menu > Advanced > Radio Clone .	
	2. Select Receive Data , and then press the Menu key.	
	The radio B enters Radio Clone mode, and the LED indicator glows	
	green.	

During Clone

When the radio B receives configuration data from the radio A, the LED indicator of the radio B flashes red rapidly.

After Clone

- When the radio B successfully clones configuration data from the radio A, the radio B restarts automatically.
- When the radio B fails to clone configuration data from the radio A, long press the **On-Off** key to turn off the radio B. When the radio B restarts, it recovers to the original configuration data.

7.1.8 Scan

Scan allows you to listen to activities on other channels, keeping track of your team members.



To ensure successful establishment of private call, it is recommended that you configure a maximum of 30 scan channels.

To turn on or off Scan, do either of the following:

- On the home screen, go to Menu > Advanced > Scan, and then press the Menu key.
- Press the preprogrammed **Scan** key.

With Scan enabled, the LED indicator flashes orange slowly. When detecting activities on a channel, the radio stays on the channel, and the LED indicator glows green.

7.1.9 Talk Around

Talk Around allows you to continue communication in direct mode when the repeater malfunctions or your radio is out of the coverage of the repeater.

To turn on or off Talk Around, press the preprogrammed Talk Around key.

7.2 Digital Features

7.2.1 Contacts

You can view the private call contacts on the radio.

- 1. On the home screen, go to **Menu** > **Contacts**.
- 2. Select a contact, and then press the **Menu** key.

7.2.2 One Touch Call

One Touch Call allows you to initiate a call to the specified contact on the digital channel.

Press the preprogrammed One Touch Call key, and then press and hold the PTT key.

7.2.3 Secure Call

Secure Call allows you to encrypt the call.

- 1. On the home screen, go to Menu > Advanced > Secure Call.
- Set the password.
 - a. Select **Password**, and then press the **Menu** key.
 - b. Select a character, and then press the **Middle** key.
 - c. Repeat step b until all characters are entered, and then press the **Menu** key.
- 3. Select **Secure Call**, and then press the **Menu** key.



To initiate a secure call, both parties should set the same password.

7.2.4 Pseudo Trunking

Pseudo Trunking allows a radio to transmit and receive through another free time slot when one slot is occupied.

- Direct channel: The radio enables Pseudo Trunking by default.
- Repeater channel
 - a. On the home screen, press the **Channel** key.
 - b. Select the channel, and then press the **Menu** key.
 - c. Select **Time Slot**, and then press the **Menu** key.
 - d. Select **Pseudo Trunking**, and then press the **Menu** key.

7.3 Analog Features

7.3.1 Scrambler

Scrambler allows the radio to invert the frequency spectrum of transmitted audio signals. Only the receiving radio with the same Scrambler settings can restore the audio signals. This prevents eavesdropping and ensures communication privacy.

To turn on or off Scrambler, do either of the following:

- On the home screen, go to Menu > Advanced > Scrambler, and then press the Menu key.
- Press the preprogrammed Scrambler key.

7.3.2 Squelch Off

Squelch Off keeps the speaker unmuted regardless of whether carrier exists, during which the radio sounds background noise.

To turn on or off Squelch Off, press the preprogrammed Squelch Off key.

7.3.3 Monitor

Monitor allows the radio to receive more signals including weak signals, and helps you to recognize weak voices in the speaker.

To switch between Monitor Squelch mode and Receive Squelch mode, press the preprogrammed Monitor key.

7.4 Hytera Radio App

You can program the radio through the Hytera Radio app.

To download and install the Hytera Radio app on your Android phone, scan the following QR code:



You can also find the QR code on your radio by the following:

- 1. On the home screen, press the **Menu** key.
- 2. Select **QR Code**, and then press the **Menu** key.

User Manual Troubleshooting

8. Troubleshooting

Phenomena	Analysis	Solution
	The battery may be installed improperly.	Remove and reattach the battery.
The radio cannot be turned on.	The battery power may have run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by dirtied or damaged battery contacts.	Clean the battery contacts.
The keys do not	The keys may fail to function temporarily.	Restart the radio.
work.	The keys may be damaged.	Contact your dealer or technicians of the Company for maintenance.
indicator is	The indication may be abnormal.	Restart the radio.
	The LED indicators may be damaged.	Contact your dealer or technicians of the Company for maintenance.
the voice is weak, discontinuous, or totally inactive.	The signal may be weak.	 Make sure that the radio is within the signal coverage. Make sure that the antenna is installed.
	The volume may be low.	Increase the volume.
	The speaker may be blocked or damaged.	Clean the surface of the speaker.
The battery fails to be charged.	The power adapter plug may be inserted into the socket improperly.	Reinsert the power adapter to the socket.
	The USB Type-C cable may be poorly connected.	Reconnect the USB Type-C cable.

If the above solutions cannot fix your problems, or you may have some other queries, please contact us or your local dealer for more technical support.

Radio Care User Manual

9. Radio Care

To guarantee optimal performance as well as a long service life of the radio, follow the tips below.

9.1 Care

Radio

- Do not disassemble the radio.
- Do not throw, crack, or hammer the radio.
- Do not pierce or scrape the radio, especially the interfaces.
- Do not expose the radio to the extreme temperature (lower than -20°C or higher than 55°C).
- Keep the radio away from substances that can corrode it.
- Close the accessory connector cover when no accessory is in use.

To avoid liquid penetration into the radio, follow the tips below:

- Do not expose the radio to the environment with high temperature and high humidity.
- Keep the radio away from salty water, ionized water, alcoholic beverage, lotion, or other impure water.
- Before connecting the accessory or charger to the radio, ensure the radio and the interface are dry.

If the radio has been wet, follow the tips below:

- Do not turn on the radio.
- Do not connect the accessory or charger to the radio.
- Do not dry the radio by microwave, hair dry, or other external heat sources.
- Do not insert the cotton buds or tissue into the interface.
- Use the clean and soft cloth to dry the water on the radio surface, and then put the radio to the well-ventilated place until it is dry.

Battery

To guarantee optimum performance as well as a long service life of the battery, follow the tips below:

- Use the approved charger to charge the battery.
- Keep the radio turned off during charging.
- Do not use the radio during charging.
- Charge the battery under the temperature from 0°C to 45°C.
- When the low battery alert occurs, replace or charge the battery in time.
- When the battery is fully charged, disconnect the charger in time.

User Manual Radio Care

- Do not drop the battery by force.
- Do not make the battery wet.

To avoid short circuit, do not use the conductive substance such as iron wire to touch the anode and cathode of the battery.

Replace the battery regularly.

9.2 Cleaning



A CAUTION

- Turn off the radio and remove the battery before cleaning.
- Ensure no external radios are connected to the radio.
- Do not use chemical preparations such as stain removers, alcohol, sprays or oil preparations.
- Do not directly spray the neutral cleanser on the radio.
- Do not use the radio before it is fully dry.
- After cleaning the accessory connector, put the cover back in place.

It is recommended to clean the radio regularly. During cleaning, you can check whether the components are damaged. If damages exist, contact the local dealer or the Company.

- 1. Use the non-metal brush to clean up the dust or dirt on the radio surface.
- 2. Use the lint-free cloth with proper neutral cleanser to clean the surface, screen, keys, and interfaces.
- 3. Use another lint-free cloth with proper pure water to clean up the cleanser or residue.
- 4. When cleaning the battery slot, use the non-metal brush to clean up the dust and dirt in the slot, and then use the dry and soft lint-free cloth to clean the contacts.

Radio Care User Manual

9.3 Sterilizing



A CAUTION

• Turn off the radio and remove the battery before sterilizing.

- Ensure no external radios are connected to the radio.
- Do not directly spray the alcohol on the radio.
- Keep the radio away from the power supply and fire.
- Do not use the radio before it is fully dry.
- After sterilizing the accessory connector, put the cover back in place.

It is recommended to sterilize the radio regularly. You can sterilize the radio by the following tips:

Use the lint-free cloth with proper rubbing alcohol (density $\geq 70\%$) to clean the radio surface, screen, keys, knob, and interfaces.

9.4 Storing

Radio



CAUTION

- Turn off the radio and remove the battery before storage.
- Ensure no external accessories are connected to the radio.

When storing the radio, follow the tips below:

- Keep the radio in the well-ventilated place with the temperature from -30°C to +80°C and the humidity no more than 75%.
- Keep the radio away from the acidic and corrosive substances.
- Keep the radio away from the fire or other heat sources.
- Do not store the radio in direct sunlight.

Battery



CAUTION

The capacity and performance of the battery may degrade if the battery is not used for long time.

When storing the battery, follow the tips below:

Keep the battery in the well-ventilated place with the temperature from -5°C to +30°C and the humidity no more than 75%.

User Manual Radio Care

- Keep the battery away from the acidic and corrosive substances.
- Keep the battery away from the fire or other heat sources.
- Do not store the battery in direct sunlight.
- Store the battery in the package box or bag.
- During storing, charge the battery once every three months, and care the battery once every six months.

Optional Accessories User Manual

10. Optional Accessories



A CAUTION

Use the accessories approved by the Company only. Otherwise, we will not be liable for any loss or damage arising out of the use of unauthorized accessories.

Contact your local dealer for the optional accessories used with the product.

User Manual Specifications

11. Specifications

Item	Description
Model	HYT-S35
Dimension (H x W x D) (without antenna and belt clip)	108 mm x 53 mm x 20 mm
Weight (with standard battery, antenna, and bet clip)	<150 g
Battery	2,200 mAh
Operating Voltage	3.8 V
Operating Temperature	−20°C to 55°C
Storage Temperature	−30°C to 70°C
Charging Port	USB Type-C
Audio Jack	3.5 mm
Channel	256
TX Power	1 W/3.5 W

Abbreviations User Manual

12. Abbreviations

Abbreviation	Full Name
IATA	International Air Transport Association
LED	Light-Emitting Diode
PTT	Push-to-Talk
TTS	Text To Speech



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