



S1 mini LF Two-way 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 mini LF Two-way Radio

Copyright Information

Hytera is the trademark or registered trademark of Hytera Communications Corporation Limited (the Company) in the People's Republic of China (PRC) and/or other countries or areas. The Company retains the ownership of its trademarks and product names. All other trademarks and/or product names that may be used in this manual are properties of their respective owners.

The product described in this manual may include the Company's computer programs stored in memory or other media. Laws in PRC and/or other countries or areas protect the exclusive rights of the Company with respect to its computer programs. The purchase of this product shall not be deemed to grant, either directly or by implication, any rights to the purchaser regarding the Company's computer programs. The Company's computer programs may not be copied, modified, distributed, decompiled, or reverse-engineered in any manner without the prior written consent of the Company.

Disclaimer

The Company endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy or reliability is given. All the specifications and designs are subject to change without notice due to continuous technological development. No part of this manual may be copied, modified, translated, or distributed in any manner without the prior written consent of the Company.

We do not guarantee, for any particular purpose, the accuracy, validity, timeliness, legitimacy or completeness of the third-party products and contents involved in this manual.

If you have any suggestions or would like to receive more information, please visit our website at: <https://www.hytera.com>.

Contents

Documentation Information	1
1. Packing List	3
2. Product Overview.....	4
2.1 Product Layout	4
2.2 Programmable Keys	4
3. Before Use	5
3.1 Charge the Battery	5
3.2 Wear the Earpiece.....	5
3.3 Use the Custom Label	6
4. Basic Operations.....	7
4.1 Turn On or Off the Radio	7
4.2 Adjust the Volume	7
4.3 Select a Channel	7
4.4 Make a Call.....	7
5. Operating Status	8
6. Supplementary Services	9
6.1 Battery Saver	9
6.2 VOX	9
6.3 Scan.....	9
6.4 Monitor	9
6.5 Squelch Off.....	9
6.6 Radio Clone	9
6.7 Channel Copy.....	10
6.8 Hytera Radio App	11
7. Troubleshooting.....	12
8. Radio Care	13
8.1 Care	13
8.2 Cleaning.....	14
8.3 Sterilizing	14
8.4 Storing	15
9. Optional Accessories	16
10. Specifications.....	17
11. Abbreviations	18

Documentation Information

Documentation Conventions

Instruction Conventions

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

Notation Conventions

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

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	Earpiece	1
Strap	1	Documentation Kit	1
Custom Label	1		

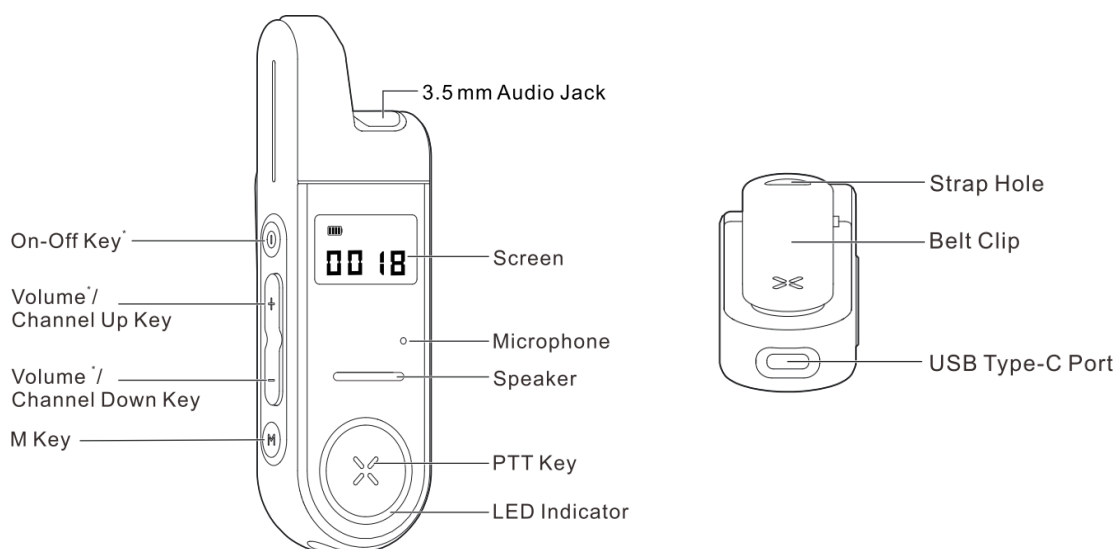


NOTE

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

2. Product Overview

2.1 Product Layout



NOTE

You can configure the channel or radio alias to be displayed on the screen through the Hytera Radio app.

2.2 Programmable Keys

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

Feature	Description
Monitor	Allows you to switch between Monitor Squelch Mode and Receive Squelch Mode.
Scan	Allows you to enable or disable Scan.
Scrambler	Allows you to enable or disable Scrambler.
Squelch Off	Allows you to enable or disable Squelch Off.
VOX	Allows you to enable or disable VOX.
Channel and Battery Level Broadcast	Allows the radio to audibly convey channel and battery level.
Battery Saver	Allows you to enable or disable Battery Saver.

3. Before Use

3.1 Charge the Battery

CAUTION

- 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).
- Charge the radio before initial use.

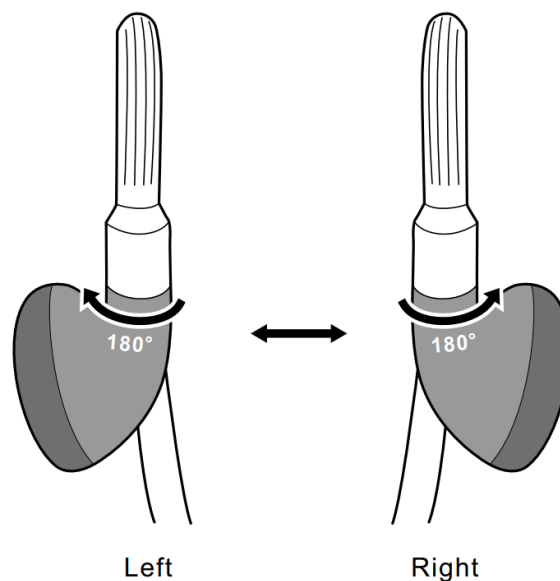
Use the USB Type-C cable to connect the radio to the power adapter, power bank, or PC.

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

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.

3.2 Wear the Earpiece

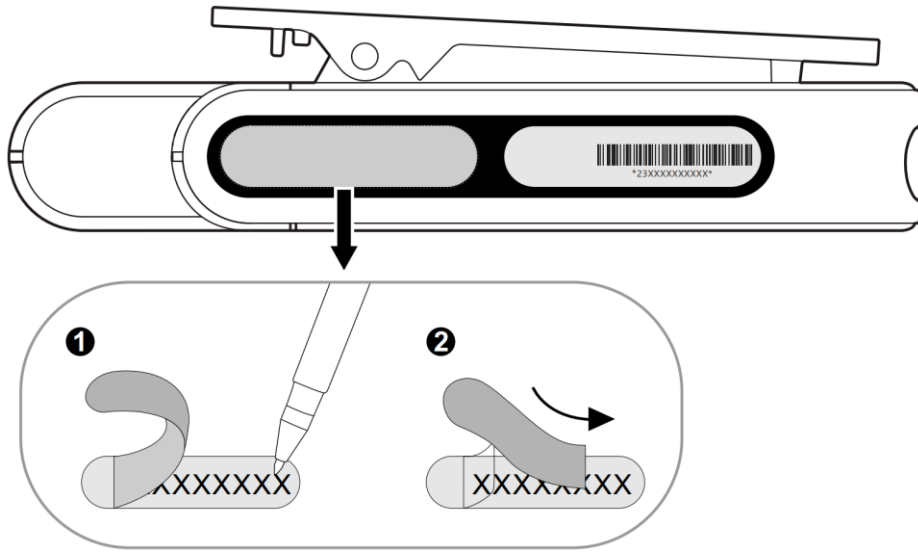
You can rotate the earbud to fit to your left or right ear.



NOTE

The earpiece is connected to the radio only after you hear a click.

3.3 Use the Custom Label



4. Basic Operations

4.1 Turn On or Off the Radio

Long press the **On-Off** key.

4.2 Adjust the Volume

1. (Optional) Press the **M** key to switch the **Volume/Channel Up** and **Volume/Channel Down** keys to volume control mode.
2. Press the **Volume/Channel Up** key to increase the volume, or the **Volume/Channel Down** key to decrease the volume.

4.3 Select a Channel

1. Press the **M** key to switch the **Volume/Channel Up** and **Volume/Channel Down** keys to channel selector mode.
2. Press the **Volume/Channel Up** to switch to the previous channel, or press the **Volume/Channel Down** key to switch to the next channel.

NOTE

- If you do not switch channel within 5s, the **Volume/Channel Up** and **Volume/Channel Down** keys automatically switch to volume control mode.
 - You can add, modify, or delete channel through the Hytera Radio app.
-

4.4 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.

NOTE

You can speak for up to 180s after pressing and holding the **PTT** key.

1. Select a channel according to [4.3 Select a Channel](#).
2. Press and hold the **PTT** key.

5. Operating Status

You can learn the radio status through the LED indicator.

LED Indicator		Radio Status
Glows red		● The radio is transmitting. ● The radio is ready to send clone data.
Glows green		● The radio is receiving. ● The radio is ready to receive clone data.
Flashes green	Once every 0.2s for three times	The radio is being turned on.
	Once every 5s	The radio is scanning.
Flashes red	Once every 0.5s for 1 min	The battery power is low.
	Once every 0.2s	● The radio is being programmed. ● The radio is being written clone data.
	Once every 0.2s for 15s	The radio receives connection request from the Hytera Radio app.
	Once every 0.2s for 5s	The radio is being searched by the Hytera Radio app.

6. Supplementary Services

6.1 Battery Saver

Battery Saver allows you to prolong the battery life significantly.

To enable Battery Saver, press the preprogrammed **Battery Saver** key.



NOTE

Battery Saver may increase delay for call initiation and establishment.

6.2 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. VOX Gain preprogrammed through mobile app is used to control the sensitivity of microphone transmission.

To enable or disable VOX, press the preprogrammed **VOX** key.

6.3 Scan

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

To enable or disable Scan, press the preprogrammed **Scan** key.

With Scan enabled, the radio scans according to the scan list preset for the current channel, during which the LED indicator flashes orange once every 5s. When detecting activities on a channel, the radio stays on the channel and the LED indicator glows green.

6.4 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.

6.5 Squelch Off

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

To enable Squelch Off, press the preprogrammed **Squelch Off** key.

6.6 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.

Before Clone



NOTE

It is recommended that only one radio is cloned 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. Turn off the radio. 2. Press the key combination Volume/Channel Up and On-Off until the radio turns on and the LED indicator glows red. The radio A enters Radio Clone mode. If no radio clones data from the radio A in five minutes, it automatically exits Radio Clone mode.
Radio B	1. Turn off the radio. 2. Press the key combination Volume/Channel Down and On-Off until the radio turns on and the LED indicator glows green. The radio B enters Radio Clone mode.

During Clone

When the radio B receives configurations from the radio A, the radio B audibly notifies "Receiving Data", and the LED indicator flashes red rapidly.

After Clone

- When the radio B successfully clones configuration from the radio A, the radio B audibly notifies "Succeeded". Long press the **On-Off** key to turn off the radio B.
- When the radio B fails to clone configuration from the radio A, the radio B audibly notifies "Failed". Long press the **On-Off** key to turn off the radio B. When the radio B restarts, it recovers to the original configuration.

6.7 Channel Copy

Channel Copy allows you to copy channel information from any radio in the same frequency to the S1 mini LF quickly.

 NOTE

- Do not copy information of an empty channel.
 - To avoid interference, make sure only one radio can be copied at a time.
 - During channel copy, keep the distance between two radios within one meter.
-

1. Set the S1 mini LF.
 - a. On the S1 mini LF, select a channel, and then turn off the S1 mini LF.
 - b. Press the key combination **M** and **On-Off** until the S1 mini LF turns on and the LED indicator flashes green.
The S1 mini LF enters Channel Copy mode.
2. Set the other radio.
 - a. Turn on the radio.
 - b. Select a channel, and then press the **PTT** key.
The S1 mini LF searches the other radio, and copies channel information from that radio.
When channel copy is complete, the radio A dings.
3. (Optional) To copy other channel information:
 - a. On the S1 mini LF, select a new channel.
 - b. On the other radio, press the **PTT** key.
4. To exit Channel Copy mode, restart the S1 mini LF.

6.8 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 QR code.

 NOTE

It is recommended that you install the Hytera Radio app on the phone running Android 9.0 or later.



7. Troubleshooting

Phenomena	Analysis	Solution
The radio cannot be turned on.	The battery may have run out.	Recharge the battery.
The keys do not work.	The keys may fail to function temporarily.	Restart the radio.
	The keys may be damaged.	Contact your dealer or technicians of the Company for maintenance.
The LED indicator is abnormal.	The indication may be abnormal.	Restart the radio.
	The LED indicator may be damaged.	Contact your dealer or technicians of the Company for maintenance.
During receiving, the voice is weak, discontinuous, or totally inactive.	The signal may be weak.	Make sure that the radio is within the signal coverage.
	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.

8. Radio Care

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

8.1 Care

- 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 audio jack 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 humidity.
- Keep the radio away from salty water, ionized water, alcoholic beverage, lotion, or other impure water.
- Before connecting the accessory or power adapter 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 power adapter 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.

8.2 Cleaning



CAUTION

- Turn off the radio 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 audio jack, 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.

- Use the non-metal brush to clean up the dust or dirt on the radio surface.
- Use the lint-free cloth with proper neutral cleanser to clean the surface, screen, keys, and interfaces.
- Use another lint-free cloth with proper pure water to clean up the cleanser or residue.

8.3 Sterilizing



CAUTION

- Turn off the radio 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 audio jack, 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, and interfaces.

8.4 Storing



CAUTION

- Turn off the radio 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 $+80^{\circ}\text{C}$ 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.

9. Optional Accessories



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.

10. Specifications

Item	Description
Model	HYT-S10 LF
Dimension (H x W x D) (with antenna and without belt clip)	99 mm x 30 mm x 16 mm
Weight	48 g
Screen	0.88 inches
Battery	750 mAh
Operating Voltage	3.8 V
Operating Temperature	0 ℃ to +55 ℃
Storage Temperature	−30 ℃ to 70 ℃
Charging Port	USB Type-C
Audio Jack	3.5 mm
BT	● BLE ● LE
Channel	16
TX Power	0.5 W

11. Abbreviations

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



is the trademark or registered trademark of Hytera Communications Corporation Limited.

© 2023 Hytera Communications Corporation Limited. All Rights Reserved.

Address: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District,
Shenzhen, People's Republic of China

Postcode: 518057

<https://www.hytera.com>