



## Business Two-way Radio

S1/S1 LF Efficiency in Duo



[www.hytera.com](http://www.hytera.com)

## Overview

Hytera S1/S1 LF redefines the business-ready analog radio. It blends classic radio elements with exquisite craftsmanship and forward fashion. From form factor to user experience, the S1/S1 LF breaks with tradition to shape the trend of next-generation business radio—modern, simple, and timeless.

Instant communication is its essence. Elegance is its character. This stylish radio is ideal for those working in supermarket, franchise store, and more large-, medium-scale or multi-storey workplaces.





Antenna  
(replaceable)



On-Off Key



Side PTT Key



Volume Key



Speaker



Channel Knob



Front PTT Key



Microphone



LED Indicator



Strap Hole



Belt Clip



Audio Jack (3.5 mm)



Battery







## Airy-light design.

135 g in weight.  
All for one-hand  
operation on the go.



## Beauty in simplicity.

Free from superfluous details,  
resulting in a sleek, modern form.  
Smooth surface and fluid curves,  
making its affinity unsurpassed.



## Light for U.

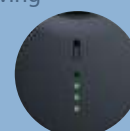
Four LEDs tell you the radio  
status in their own way.



Receiving



Transmitting



Battery level



## Let color fit your style.

Experience the captivating elegance  
of S1/S1 LF.



Pearl  
white



Metallic  
grey





## Dual PTT. Dual standby. Dual efficiency.

Talk with either of two standby groups—not just one as before.



## PTT, unlike any other.

Another PTT in the front—  
enlarged size, circle shape, and  
phonograph-record-like texture.  
Push to talk more easily while  
experiencing the spellbinding  
beauty.





## Stay connected in the workplace.

**3-5km**

in urban area

**3-5**

floors

>10,000 square meters of  
indoor space.

\*The communications distance is  
subject to the actual environments.



## Crystal and loud.

Crystal-clear and train-loud  
audios—making you get all  
information easily.







## Hear it, get it.

Always give you voice notifications about channel number, battery level, configuration data, and more. Get key information without any glance.



## Hands-free call.

Hytera earpiece connected. VOX (Voice Operated eXchange) on. Then, you can make a hands-free call without pressing and holding the PTT key.





## Outlast your shift.

**360 hrs**  
standby time

**15 hrs**  
working time  
(5/5/90 duty cycle)

With a battery life of up to 15 hours, your focus remains on the job, not the clock.



## Fast charging to refuel quickly.

USB Type-C fast charging leave you worry-free and unconstrained. 8-pocket charger, charge your batteries alone or attached on the radios in batches, easily and quickly. say goodbye to cable chaos.



Replaceable battery  
Swap a spare battery for extra-long shifts.







## New meets old in harmony.

Channel copy, easy and quick. Quickly communicate with your existing radios, regardless of brands and models.



## Hytera Radio app, high-efficient.

Manage your radio with a phone, at your fingertips. Perform BT-enabled programming, batch configuration, frequency information backup, and then some.



Download APP Now



## AirClone, simple and fast.

You can clone configuration data from one S1 to many. All done in a flash.





## Application Scenarios



Mall



Store



Warehouse



Supermarket

## Specifications

General	
Model	HYT-S31/HYT-S31 LF
Frequency Range	400-470 MHz (Main Unit) /446 MHz
Channel Capacity	48
Zone Capacity	3
Channel Capacity per Zone	16
Channel Spacing	12.5 kHz/20 kHz/25 kHz
Operating Voltage	3.8 V (Rated)
Battery	2200mAh Li-Polymer
Battery Life (5/5/90 Duty Cycle, TX Power)*	15 hrs (3W) /22 hrs (1W) / 27 hrs (0.5W)
Frequency Stability	±2ppm
Antenna Impedance	50Ω
Dimensions (HxWxD)	108*53*20mm (Without antenna)
Weight (With battery and antenna)	145 g (With belt clip) 135 g (Without belt clip)
Display	/
BT	5.0 (only data)

Receiver	
Sensitivity	0.14μV
Adjacent Channel Selectivity	ETSI: 60dB@12.5kHz / 70dB@20/25kHz
Intermodulation	ETSI: 65dB@12.5/20/25kHz
Spurious Response Rejection	ETSI: 70dB@12.5/20/25kHz
Blocking	ETSI: 84dB
Hum&Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤5%
Audio Response	+1 to -3dB
Conducted Spurious Emission	<-57dBm

Transmitter	
Power Output	400-470 MHz: 1W / 3W (low/high) 446 MHz: 0.5W
FM Modulation	11K0F3E@12.5kHz 14K0F3E@20kHz 16K0F3E@25kHz
Conducted/Radiated Emission	-36dBm<1GHz; -30dBm>1GHz
Modulation Limiting	±2.5kHz@12.5kHz; ±4.0kHz@20kHz; ±5.0kHz@25kHz
FM Hum&Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Adjacent Channel Power	60dB@12.5kHz; 70dB@20/25kHz
Audio Response	+1 to -3dB
Audio Distortion	≤3%

\* Data comes from Hytera labs. Actual battery life will vary.

Environment	
Operating Temperature	-10°C~ +55°C
Storage Temperature	-30°C ~ +70°C
ESD	±4kV (Contact) ±8kV (Air)

## Accessories

● Standard ● Optional



Antenna  
(400-440/430-470 MHz)



Battery



Belt clip



Strap



Antenna  
(9cm, 400-470 MHz)



USB Type-C  
charging cable



Multi-unit charger



Earpiece



Adapter

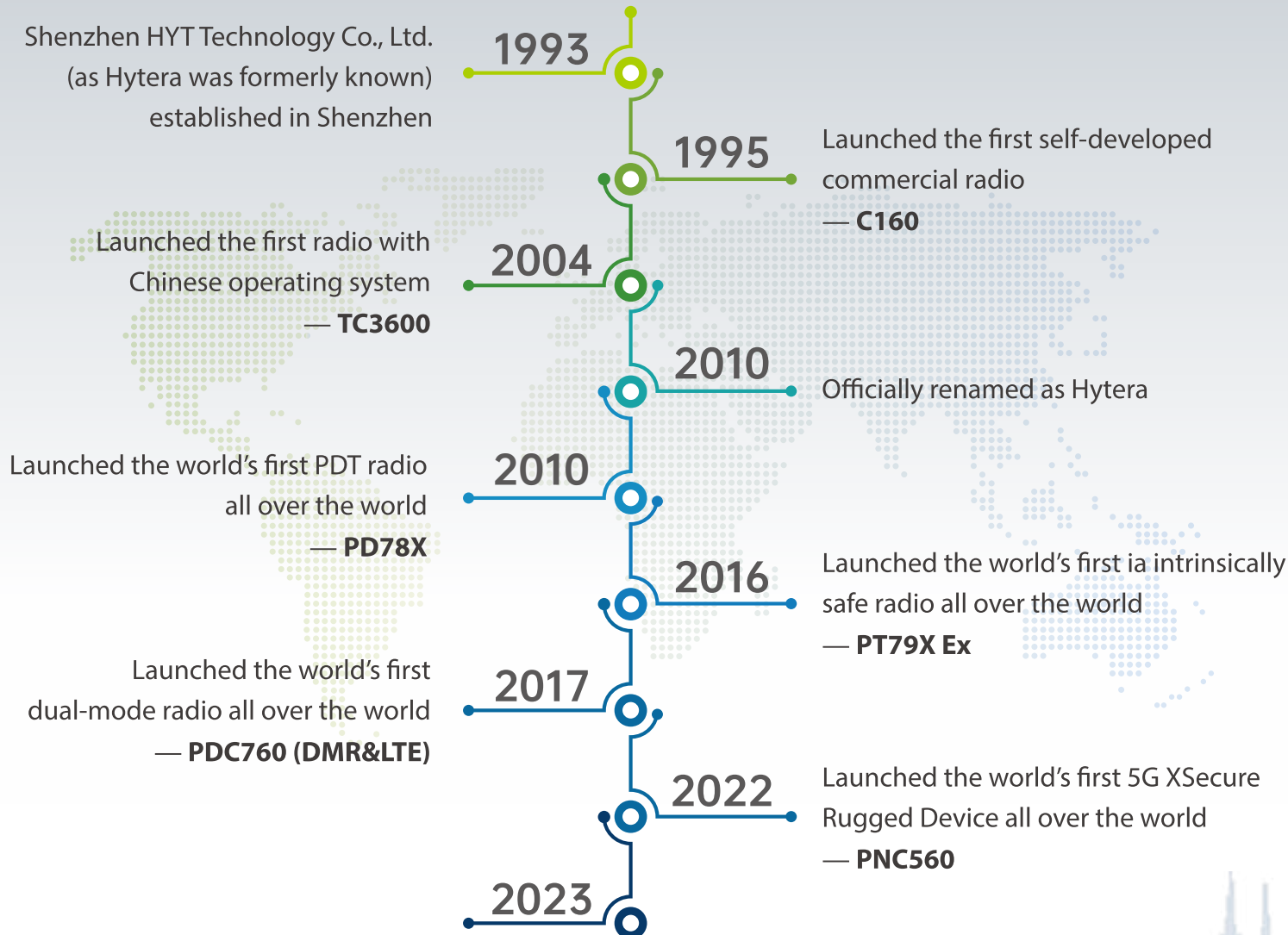




Stay True to Our Mission



## 30 years of radio communications, beyond.



Hytera serves 20 million users for public safety, firefighting, railway, airports, factories, hotels, supermarkets, and more industries home and abroad.



**Hytera Communications Corporation Limited**

Stock Code: 002583.SZ

Address: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road,  
Nanshan District, Shenzhen, P.R.C

Tel: +86-755-2697 2999 Fax: +86-755-8613 7139 Post: 518057

Https://www.hytera.com marketing@hytera.com



Hytera retains right to change the product design and specification. Should any printing mistake occur, Hytera doesn't bear relevant responsibility. Little difference between real product and product indicated by printing materials will occur by printing reason.

**HYT**, **Hytera** are registered trademarks of Hytera Communications Corp., Ltd.  
© 2023 Hytera Communications Corp., Ltd. All Rights Reserved.