Hytera | 30th 1993-2023

Stay True to Our Mission

# 30 years of radio communications, beyond.

**1993**
Shenzhen HYT Technology Co., Ltd. (as Hytera was formerly known) established in Shenzhen

**1995**
Launched the first self-developed commercial radio
— **C160**

**2004**
Launched the first radio with Chinese operating system
— **TC3600**

**2010**
Officially renamed as Hytera

**2010**
Launched the world's first PDT radio all over the world
— **PD78X**

**2016**
Launched the world's first ia intrinsically safe radio all over the world
— **PT79X Ex**

**2017**
Launched the world's first dual-mode radio all over the world
— **PDC760 (DMR&LTE)**

**2022**
Launched the world's first 5G XSecure Rugged Device all over the world
— **PNC560**

**2023**

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


Hytera

**Hytera Communications Europe**

939 Yeovil Road, Slough, Berkshire, SL1 4NH
**marketing@hytera-europe.com | www.hytera.com/eu**



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Hytera

# Business Two-way Radio

## S1/S1 LF Efficiency in Duo




iF DESIGN AWARD 2024

www.hytera.com/eu

## 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.





## 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.




## Let color fit your style.

Experience the captivating elegance of S1/S1 LF.

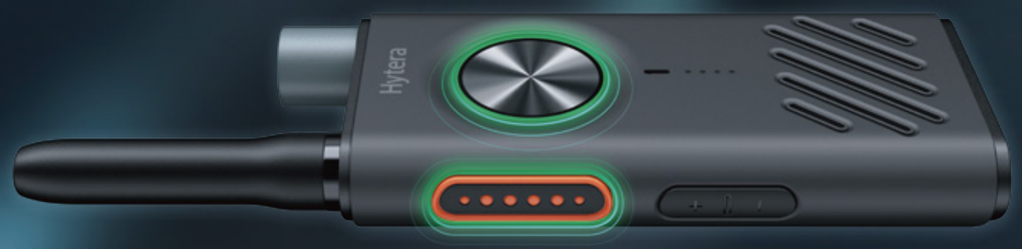
Pearl white

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.

## 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 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.

## Outlast your shift.

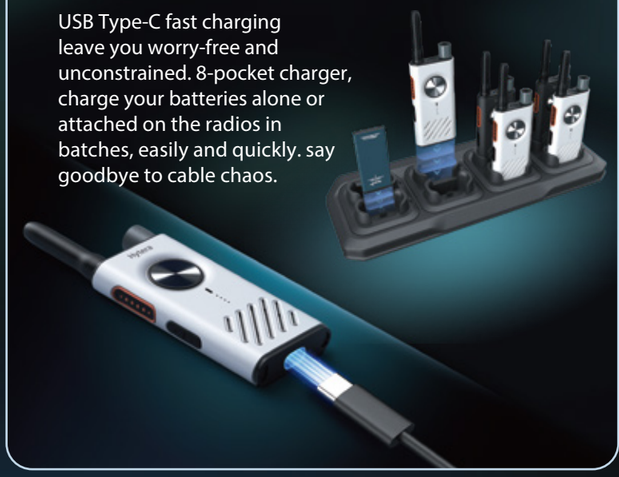
**360 hrs** standby time

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

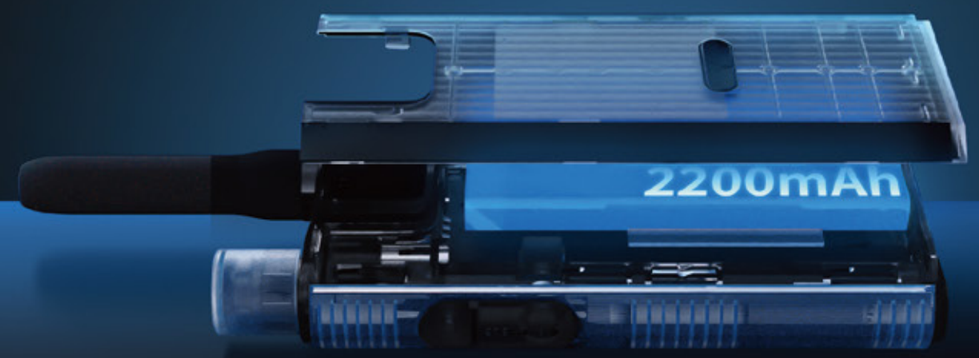
With a battery life of up to 15 hours, your focus remains on the job, not the clock.

## 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.



## 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 | / |

| 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 | ±8kV (Contact)<br>±15kV (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