



Stay True to Our Mission



30 years of radio communications, beyond.

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

1993

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<E)**

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.



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**Business
Two-way Radio**
S1 Efficiency in Duo



www.hytera.com

Overview

Hytera S1 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 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.



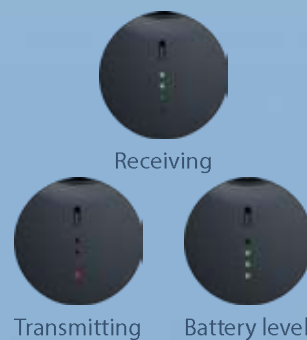
Beauty in simplicity.

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.



Let color fit your style.

Experience the captivating elegance of S1.



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 notifica-
tions 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

Model	HYT-S31
Frequency Range	400-470 MHz (Main Unit)
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)*	hrs (3W)/22 hrs (1W)
Frequency Stability	±2ppm
Antenna Impedance	50Ω
Dimensions (HxWxD)	108*53*20mm (Without antenna)

Operating Temperature	-10℃~ +55℃
Storage Temperature	-30℃ ~ +70℃
ESD	±8kV (Contact) ±15kV (Air)

Accessories

	Weight (With battery and antenna)	145 g (With belt clip)	135 g (Without belt clip)
		● Standard	● Optional



●

Antenna
(400-440/430-470 MHz)



●

Battery

Display	/
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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)
FM Modulation	11K0F3E@12.5kHz 14K0F3E@20kHz 16K0F3E@25kH
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.



Belt clip



Antenna
(9cm, 400-470 MHz)



Strap
USB Type-C
charging cable



Multi-unit charger



Earpiece



Adapter