

ENHANCED BUSINESS ANALOGUE
TWO-WAY RADIOS

AP512/AP582

STAY CONNECTED, STAY PRODUCTIVE



AP512

AP582

The AP5 series business radios are the perfect choice for instant communication. With a 3W speaker, the compact and light AP5 series can deliver loud and clear audio that allows you to hear and be heard in background noise. It has an incredibly long 17-hour battery life in its most minimal form. Type-C USB charge plug allows users to charge the radio with a power bank anywhere. With the extended range and a bunch of productivity and efficiency increasing features, the AP5 series will ensure you stay connected and productive.





HEAR AND BE HEARD ANYWHERE

You might lose key information due to the unclear audio mixed with heavy background noise, or spend much extra time delivering your information to your partners. The AP5 series has a 3W speaker and advanced noise cancellation algorithm to eliminate unwanted background noise, reduce distortion, and suppress howling caused by other devices when in close proximity of each other, delivering louder and clearer audio. The background noise will no longer slow down your communication, and you can hear and be heard wherever you are.



COMMUNICATE THROUGHOUT THE WORKPLACE

The AP5 series has high-sensitivity receiving module and high-efficiency monopole antenna to enhance signal penetration and achieve better call effect even in a weak signal room. In addition, the monopole antenna has a unique thick screw thread design and is not easy to break and bend helping to enhance antenna life time and also increase the radiation efficiency compared to traditional antennas by 11% to extend radio communication distance.



DO MORE WHILE CARRYING LESS

With a 4000mAh Li-polymer battery, plus the low consumption design, the AP512 has an incredibly long 17-hour battery life in its most minimal form to supply your increasing need, without compromising in style or performance. The 10W USB Type-C charge plug can get the radio fully charged in 1.8-hours, or charge the radio in just one hour to get 8-hours of talk time. The long life battery also helps your teams power through extended shifts. So you can do more, while carrying less.



WORK SMARTLY AND EFFECTIVELY

Compact and light, yet the AP5 series is coupled with a package of features to make it easy to get your work done. Voice broadcast confirms the operation of a programmable button or changing the channel of non-display radios. Also there are three kinds of optional signaling to deliver critical information by a simple press.

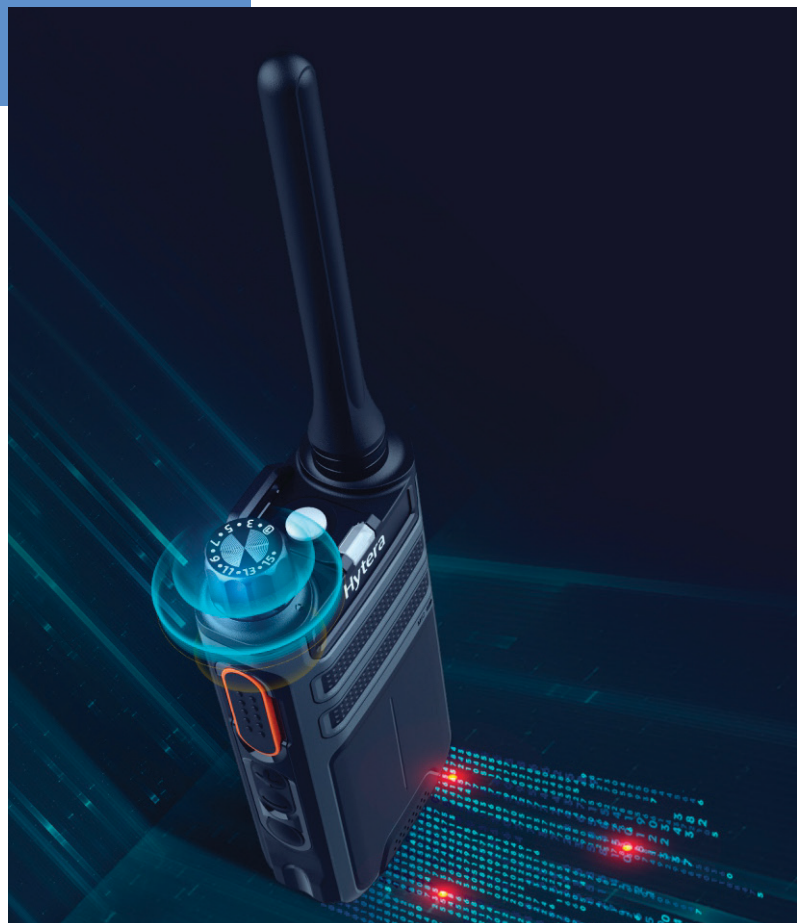


TRUSTWORTHY QUALITY

Hytera has the world's largest professional communication production line, and manufactures each walkie-talkie in accordance with Industry 4.0 standards. Our strict supplier management system certification ensures each component meets the quality control requirements to ensure the consistency of product quality.

KEY FEATURES

- 32/128 channels
- Auto scan
- Squelch
- Clear audio
- Selectable High/Low Power
- CTCSS/CDCSS
- Timeout timer
- Voice broadcast
- BT (optional)
- Type-C charge plug



SPECIFICATIONS

General	AP512	AP582
Frequency Range	400-470MHz;136-174MHz	
Channel Capacity	32	128
Zone Capacity	2	8
Channels Per Zone	16	
Channel Spacing	12.5kHz/20kHz/25kHz	
Operating Voltage	3.7V (rated)	7.4V (rated)
Battery	4000mAh 3.7V	1500mAh 7.4V 2000mAh 7.4V (Optional)
Battery Life (5/5/90 Duty Cycle,High TX Power)	17h	12h(1500mAh) 16h(2000mAh)
Frequency Stability	±0.5ppm	
Antenna Impedance	50Ω	
Dimensions (H x W x D)	105*55*29.5mm	115*55*29.5mm
Weight(with antenna&battery)	200g	230g
Display	\	1.44 inch monochrome LCD
BT (optional)	BT 5.0 BLE+EDR	
Receiver		
Sensitivity	0.18μV (12dB SINAD)	
Adjacent Channel Selectivity	TIA-603: 60dB@12.5kHz; 70dB@20/25kHz ETSI: 60dB@12.5kHz; 70dB@20/25kHz	
Intermodulation	TIA-603: 70dB@12.5/20/25kHz ETSI: 65dB@12.5/20/25kHz	
Spurious Response Rejection	TIA-603: 70dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz	
Blocking	TIA-603: 80dB; ETSI: 84dB	
Hum and Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz	
Rated Audio Power Output	0.5W	1W
Rated Audio Distortion	≤3%	
Audio Response	+1~-3dB	
Conducted Spurious Emission	<-57dBm	
Transmitter		
RF Power Output	VHF: 4-5W / 1W UHF: 3-4W / 1W	VHF: 5W / 1W UHF: 4W / 1W
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%	
Environmental		
Operating Temperature	-30°C to +60°C (Battery requires -20 °C minimal operating temperature)	
Storage Temperature	-40°C to +85°C	
ESD	IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air)	
Dust and Water Intrusion	IEC60529-IP54	IEC60529-IP54 (IP67 optional)
Humidity	MIL-STD-810 G	
Shock and Vibration	MIL-STD-810 G	
Radio Equipment List (REL)	Certification Number	
AP582 U(1)	8913A-AP58XU1	
AP582 VHF	8913A-AP58XVHF	
AP512 U(1)		8913A-AP51XU1
AP512 VHF		8913A-AP51XVHF

ACCESSORIES

STANDARD ACCESSORIES:



OPTIONAL ACCESSORIES:





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