

## Accessories

<b>Antenna Helical</b>  ANTVHF8000-S ANTUHF8000-S	<b>Charger Adapter</b>  PS8000AU	<b>Battery</b>  BP8000-2200 2200mA BP8000-2500 2500mAh (optional)	<b>Ear-piece Mic</b>  EB1013M5
<b>Antenna Flexible</b>  ANTUHF8000-F	<b>Intelligent Charger</b>  CP8000	<b>Belt Clip</b>  BC8000	<b>Remote Speaker Mic</b>  SMHD21M5

## General

Frequency Range	VHF: 136~174MHz UHF: 350~400MHz; 400~470MHz; 450~520MHz;
Channel Capacity	16
Channel Spacing	12.5KHz(Digital) 25/20/12.5KHz(Analog)
Operating Voltage	7.4V(rated)
Battery	2200mAh Li-ion Battery 2500mAh Li-Poly Battery (Optional)
Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 2200mAh Li-ion Battery	Analog: Above 11.5 Hours Digital: Above 16.5 Hours
Frequency Stability	± 1.5ppm
Antenna Impedance	50Ω
Dimensions (H × W × D)	126 × 53 × 33mm
Weight	300g
Front Case	PC

## Receiver

Sensitivity (Analog)	0.3 μV(12dB SINAD) / 0.22 μV(Typical)(12dB SINAD) / 0.4 μV(20dB SINAD)
Sensitivity (Digital)	0.3 μV/BER 5%
Selectivity TIA-603 ETSI	60dB @12.5KHz / 70dB @20/25 KHz /60dB @12.5KHz / 70dB @20/25 KHz
Intermodulation TIA-603 ETSI	70dB @12.5/20/25 KHz / 65dB @12.5/20/25 KHz
S/N	40dB @12.5KHz / 43dB @20KHz /45dB @25KHz
Rated Audio Power Output	1.5W
Rated Audio Distortion	< 3%
Audio Response	+1~-3dB
Conducted Spurious Emission	< -57dBm

## Transmitter

RF Power Output	VHF High Power: 5W UHF High Power: 4W VHF Low Power: 1W UHF Low Power: 1W
FM Modulation	11KΦF3E@12.5KHz / 14KΦF3E@20KHz / 16KΦF3E@25KHz
4FSK Digital Modulation	12.5KHz Data Only: 7K60FXD /12.5KHz Data & Voice:7K60FXW
Conducted/Radiated Emission	-36dBm < 1GHz / -30dBm > 1GHz
Modulation Limit	± 2.5KHz @ 12.5KHz / ± 4.0KHz @ 20KHz / ± 5.0KHz @ 25KHz
FM Noise	40dB @ 12.5KHz / 43dB @ 20KHz / 45dB @ 25KHz
Adjacent Channel Power	60dB@ 12.5kHz 70dB@ 20/25kHz
Audio Distortion	< 3%
Digital Vocoder Type	AMBE3000+
Digital Protocol	ETSI-TS102 361-1.-2.-3

## Environmental Specifications

Operating Temperature	-30℃ ~+60℃
Storage Temperature	-40℃ ~+85℃
ESD	IEC 61000-4-2 (Level 4) / 8KV (Contact) / 15 KV (Air)
U.S. Military Standard	MIL-STD-810 C/D/E/F/G
Dust & Water Protection	IP67 standard
Humidity	Per MIL-STD-810 C/D/E/F/G standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G standard

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

Hytek Communications Pty Ltd  
 6/210 Queensport Road North Murarie Qld 4172 Australia  
 Phone: 61 7 3348 9988  
 Fax : 61 7 3348 8278  
 Email : sales@hytek.net.au



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# HyTek



## DHP-8100

Commercial DMR Digital Radio

As a product built to the DMR standard, DHP-8100 is gifted with ergonomic design, all-round digital functions and remarkable quality to refresh your experience and enable you to be responsive to critical situations.

- Superior Digital Voice
- Submersible With IP67 Rating



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## Main Function



### Dual Modes(Analog+Digital)

DHP-8100 can operate in either analog or digital mode. It is compatible with prevalent analog systems, ensuring a smooth analog-to-digital transition.

### Versatile Voice Calls

Intelligent signaling of DHP-8100 supports various voice call types, including Private Call, Group Call, All Call and Emergency Call.

### Vibrate (Optional)

This feature is helpful in reminding you of the reception of any Private call, Call Alert or Text Message under noisy or low-volume conditions.

### Various Analog Signaling Types (Under development)

DHP-8100 supports various analog signaling (DTMF Encode, 2-Tone, 5-Tone and QDC-1200), provides higher function expansion capacity.

### Advanced Features (Optional)

DHP-8100 supports various optional advanced features including Man Down, GPS, Bluetooth and Voice Recording.

### Secure Communication

DHP-8100 provides high-level digital encryption utilizing advanced 216-bit algorithm; In analog mode, DHP-8100 also provides Scrambler feature (Selectable).

### Software Upgradable

With this capability, you can enjoy further features without the need to buy a new radio.

### Highly Compatible Accessory Socket

## Product Features



### Ergonomic Design

The industrial design and antenna design ensure convenient operation and remarkable performance.

### Reliable Quality

DHP-8100 is strictly compliant with MIL-STD-810 C/D/E/F/G and IP67 standards, ensuring outstanding performance even under harsh environments.

### Superior Voice

With the combined application of narrow band codec and digital error-correction technologies, DHP-8100 is capable of ensuring you superior voice. By adopting AGC technology, DHP-8100 also optimizes your voice. With a built-in 1.5W speaker, DHP-8100 ensures loud and crystal clear voice communication from end to end.

### Durable Battery

Compared with analog mode, DHP8100 can obtain an additional 40% operation time in digital mode. In addition DHP8100 comes standard with 2200mAh battery and optional 2500mAh battery..

### Higher Spectrum Efficiency, Higher Channel Capacity

Benefiting from the TDMA technology, DHP-8100 allows twice the channels based on the same spectrum resource, This is a big help to relieve the stress of increasing shortage of spectrum resource.

### Versatile Features

In addition to conventional communication services, DHP-8100 features rich data services and selectable functions, such as Mixed Scan, Emergency, Radio Enable/Disable, Remote Monitor, Call Alert, Radio Check, Man Down(Optional), Vibration(Optional), GPS(Optional), Bluetooth(Optional), Voice Recording(Optional) etc.

## Industrial Design Features



Comfortable operation with big push-button.



Clear status indication with tri-color LED.



Large speaker with quality audio and smart look.



Multiple reprogrammable buttons.



Compliant with MIL-STD-810 C/D/E/F/G and IP67 standards.

