# Digital
# **Migration** Radio

## PD462 CB capable radio

80 AUS CB channels

ETSI DMR standard radio with digital voice

# 80-channel AUS CB capable

- **80-channel CB**

  As the FreeTalk® 477 logo indicates, this radio requires no license for use of all narrowband 80 CB channels including 16 repeater channels. *For this function, you need to enable the CB channel mode in programming.

- **Commercial Channel Mode Ready**

  Hytera's PD462 is more than just a CB capable radio. There are in total 256 channels. When CB channel mode is enabled, it still allows 176 channels (450-520 MHz) to be programmed. When CB channel mode disabled, it supports 256 programmable channels (450-520 MHz).

- **CTCSS/CDCSS Stand-by**

  Users can manually enable, disable or modify the CTCSS/CDCSS function via the radio menu. It is a welcome feature when there is a lot of radio traffic. Where more than one user group are on the same channel, CTCSS filters out other users if they are using a different CTCSS tone or no CTCSS. This allows you to set up the radio so you only hear calls from your own group – everything else is ignored.

- **Scan**

  PD462 supports not only scanning in programmed list, but also functions below:
  1. Via programmed buttons, users can enable or disable this scan feature.
  2. From the displayed menu, users can also add or delete the channels in the scan list. So the noisy channel can be temporarily removed.

- **Talk around**

  When working under a repeater, this function allows radio to communicate when the repeater is out of range or the repeater is down. Via the programmable button or the radio menu, the radio can use a receiving frequency to transmit. This allows the radio using simplex transmission and the radio in repeater mode to receive signal from the Talk Around operated radio.

Superior Audio

Digital radio with 80 AUS CB channels

# Target Markets

Shopping Mall                Hotel                Hospital                Warehouse

# Digital voice, louder and clearer

**Abundant Voice Call**

Voice communication includes private, group and all call.

**Small, Sleek, Light**

The size is 112×54×30mm and weight is 280g.

**Long Battery Life**

In digital mode, PD462 operates at least 15 hours under a duty cycle of 5-5-90 @1500mAh.

**Rugged & Reliable**

It is compliant with MIL-STD-810 G standards & IP54.

**Preprogrammed Text Messages**

**One Touch Call/Text**

Support One Touch features that comprise of Voice Calls and Preprogrammed Text Messages.

**Dual Mode (Analog & Digital)**

Dual modes (analog & digital) operation ensures a smooth migration from analog to digital.

**VOX**

The VOX (Voice-operated Transmit) feature allows you to trigger the voice transmission by voice directly rather than pressing PTT button. This brings more convenience to you in the use of your radio.

**DMRA Direct Mode TDMA (True 2-slot)**

In digital direct mode, Hytera can provide 2-slot communication, which allows for 2 talk paths on 1 frequency.

## Standard

Antenna

Rapid-rate charger

Switching Power Adapter

Li-ion battery (1500mAh)

Belt clip

Hand strap

## Options

MIC&PTT cable finished

Receive-only C style earpiece

Receive-Only Adjustable Earhook with Swivel Speaker

Receive-only ear-bud

Receive-Only Earpiece with Transparent Acoustic Tube

D-earset with in-line MIC (with VOX capability)

C-style earpiece with in-line PTT & MIC

Remote speaker microphone

Waterproof Remote Speaker Microphone(IP54)

Receive-Only Earpiece with Transparent Acoustic Tube

2000mAh Li-ion battery

Data Programming Cable

Vehicle power adapter

Multi-unit Charger

Nylon carrying jacket

Universal nylon chest Pack

Waterproof Bag

# Specifications

| General | |
|---|---|
| Frequency Range | UHF: 450-520MHz |
| Channel Capacity | 256 |
| Channel Spacing | 25/12.5KHz |
| Operating Voltage | 7.4V |
| Battery | 1500mAh (Li-Ion)<br>2000mAh (Li-Ion) |
| Battery Life (5/5/90 ) | Analog/Digital:<br>10/15 hours (1500mAh)<br>14/20 hours (2000mAh) |
| Weight | 280g |
| Dimensions | 112×54×30mm |
| Frequency Stability | ±0.5ppm |
| Antenna Impedance | 50Ω |

| Receiver | | |
|---|---|---|
| Sensitivity (Digital) | | 0.18μV / BER 5% |
| Sensitivity (Analog) | | 0.18μV (12dB SIN AD) |
| Adjacent Selectivity | TIA-603 | 60dB @ 12.5KHz/70dB @ 25KHz |
| | ETSI | 60dB @ 12.5KHz/70dB @ 25KHz |
| Spurious Response Rejection | TIA-603 | 70dB @ 12.5/25KHz |
| | ETSI | 70dB @ 12.5/25KHz |
| Inter-modulation | TIA-603 | 70dB @ 12.5/25KHz |
| | ETSI | 65dB @ 12.5/25KHz |
| Hum & Noise | | 40dB @ 12.5KHz<br>45dB @ 25KHz |
| Rated Audio Power Output | | 0.5W |
| Rated Audio Distortion | | ≤3% |
| Audio Response | | +1 ~ -3dB |
| Conducted Spurious Emission | | <-57dBm |

| Transmitter | |
|---|---|
| RF Power Output | UHF High power: 4W<br>UHF Low power: 1W |
| FM Modulation | 11K0F3E @ 12.5KHz<br>16K0F3E @ 25KHz |
| 4FSK Digital Modulation | 12.5KHz Data Only: 7K60FXD<br>12.5KHz Data & Voice: 7K60FXW |
| Conducted/Radiated Emission | -36dBm <1GHz, -30dBm >1GHz |
| Modulation Limiting | ±2.5KHz @ 12.5KHz<br>±5.0KHz @ 25KHz |
| FM Hum & Noise | 40dB @ 12.5KHz<br>45dB @ 25KHz |
| Adjacent Channel Power | 60dB @ 12.5KHz, 70dB @25KHz |
| Audio Response | +1 ~ -3dB |
| Audio Distortion | ≤3% |
| Digital Vocoder Type | AMBE+2™ |
| Digital Protocol | ETSI-TS102 361-1,-2,-3 |

| Environmental | |
|---|---|
| Operating Temperature | -30°C~ +60°C* |
| Storage Temperature | -40°C~ +85°C |
| ESD | IEC 61000-4-2 (Level 4)<br>±8kV (Contact)<br>±15kV (Air) |
| Dustproof & Waterproof | IP54 Standard |
| Humidity | Per MIL-STD-810 G Standard |
| Shock & Vibration | Per MIL-STD-810 G Standard |

All specifications are subject to change without notice due to continuous development.
* Radio only - Battery -20°C