

# Digital Migration Radio PD40X

Digital voice, louder and clearer  
Double Channel Capacity  
Multi-site roaming, Basic encryption, Radio Enable/Disable



## Features

Private call, Group call and All call

Small, Sleek, Light

In digital mode, the radio operates up to 15 hours under a duty cycle of 5-5-90 @1500mAh.

IP55 & MIL-STD-810 G standards

Pre-programmed Text Message

Support one touch pre-programmed text messages and voice calls.

Dual Mode (Analog & Digital) ensures a smooth migration from analog to digital.

Voice-operated Transmit (VOX) allows you to trigger the voice transmission by voice directly.

Multi-site roaming, Basic encryption, Radio Enable/Disable

Superior Audio

Dust- & water-proof (IP55)



## Highlights

- Digital Voice, Louder and Clearer
- Double Channel Capacity
- Easy Operation
- Durable, IP55 & MIL-STD-810 G standards
- Affordable



# Target Markets



## Construction

At noisy construction site, a radio with good voice quality and reliable use can make all the difference.



## Security

Steady wireless signal receiving improves security work performance and reduces loss.



## Warehouse

A durable battery supports full shifts without recharge.



## Factory

Military standard and good dust-proof & water-proof rating (IP54) protect the radio from damage in complex environment of factory.

## Standard

## Options



Antenna



Rapid-rate charger



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



Switching Power Adapter



Li-ion battery (1500mAh)



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



Belt clip



Hand strap



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: 400-470MHz VHF: 136-174MHz
Channel Capacity	48
Zone Capacity	3
Channel Spacing	25/12.5KHz
Operating Voltage	7.4V
Battery	1500mAh (Li-Ion) 2000mAh (Li-Ion)
Battery Life (5/5/90)	Analog/Digital: 10/15 hours (1500mAh) 14/20 hours (2000mAh)
Weight	270g
Dimensions	112x54x28mm
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 45dB @ 25KHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤3%
Audio Response	+1 ~ -3dB
Conducted Spurious Emission	<-57dBm

Transmitter	
RF Power Output	VHF High power: 5W VHF Low power: 1W UHF High power: 4W UHF Low power: 1W
FM Modulation	11K0F3E @ 12.5KHz 16K0F3E @ 25KHz
4FSK Digital Modulation	12.5KHz Data Only: 7K60FXD 12.5KHz Data & Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm <1GHz, -30dBm >1GHz
Modulation Limiting	±2.5KHz @ 12.5KHz ±5.0KHz @ 25KHz
FM Hum & Noise	40dB @ 12.5KHz 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) ±8kV (Contact) ±15kV (Air)
Dustproof & Waterproof	IP55 Standard
Humidity	Per MIL-STD-810 G Standard
Shock & Vibration	Per MIL-STD-810 G Standard

\*Radio only - Battery -20°C  
PD40X, X=0, 2, 5,6 or 8, model number varies geographically. For details, please contact our regional sales representatives.  
All specifications are subject to change without notice due to continuous development.



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