



PD-1600W



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PD-1600W

WATERPROOF PORTABLE RADIO

FEATURES

- 100 Channels at 16 Zones *OR*
200 Channels at 8 Zones
- IP67 Dustproof and Waterproof
- Dual Direct Access (2 Time Slot on Simplex)
- Man Down & Lone Worker
- DTMF (Phonebook or Live)
- Digital DMR Tier II / Analog
- Support Advanced Encryption
Standards AES 256
- Approved 80Ch UHF CB Operation
- Text Message
- Shortcut Quick Access Key
- 1 Watt Speaker
- Tough Polycarbonate LCD Display Lens
Covering 2.2inch Large Colour Screen
- Voice Annunciation
- Simplex Frequency Repeater Operation

APPLICATIONS

- Mining
- Construction
- Government
- Factories
- State Emergency Services
- Ports
- Aviation
- Golf Courses
- Hotels
- Shopping Centres
- Highrise Buildings

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GENERAL SPECIFICATIONS

Model	PD-1600W
Frequency	VHF: 136-174MHz UHF U1: 400-470MHz UHF U2: 450-520MHz
Channel Capacity	100 CH/16 Zones 200CH/8 Zones
Channel Spacing	25 kHz / 12.5 kHz
Operating Temperature	-25°C ~ + 60°C
Frequency Stability	±2.5ppm
Operating Voltage	7.4 VDC
Antenna Impedance	50Ω
Microphone Impedance	2.2KΩ
Battery Life (5-5-90 duty cycle)	1800mAh: Analog 13.9 hrs Digital 17.5 hrs 2200mAh: Analog 16.9 hrs Digital 21.4 hrs
Dimensions (W x L x H)	126mm x 53mm x 28.5mm
Weight	290g (with battery and antenna)

TRANSMITTER

RF Power	H: UHF 4 W, VHF 5 W L: 1.5 W
FM Modulation	16KΦF3E @ 25kHz 8KΦF3E @ 12.5kHz
4FSK Digital Modulation	12.5 kHz Data: 7K60FXD 12.5 kHz Voice & Data: 7K60FXW
Digital Vocoder Type	AMBE ++
Digital Protocol	ETSI-TS102 361-1, -2
Harmonic	≥ 70 dB
SNR (Signal to noise ratio)	≤-45dB @ 25kHz ≤-40dB @ 12.5kHz
Rated Audio Distortion	≤ 5%
Frequency Stability	± 2.5 ppm
Max Frequency Deviation	≤5kHz @ 25kHz ≤2.5kHz @ 12.5 kHz

RECEIVER

Sensitivity Analog	≤0.22uV(12dB SINAD) @25kHz ≤0.25uV(12dB SINAD) @12.5kHz
Digital	0.22uV (BER 5%)
SNR (Signal to noise ratio)	≥-45dB @ 25kHz ≥-40dB @ 12.5kHz
Adjacent Channel	≥-70dB @ 25kHz ≥-65dB @ 12.5kHz
Selectivity	
Intermodulation	≥-65dB @ 25kHz ≥-60dB @ 12.5kHz
Spurious Response	≥65 dB
Rejection	
Audio Output Power	≥ 1000 mW
Rated Audio Distortion	≤ 5%



- All specifications are subject to change without notice due to continuous development
- Complies with Australia / New Zealand RF standards



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FEATURES



DMR & Analog DualDirect Mode,TDMA

Two time slot in simplex that allows operation of two digital voice channels from a single frequency

Selective Call

User can generate a private call group call by selecting the ID via the keypad
Quick access to channels

Simplex Repeater Operation

State of the art Simplex Repeater function when utilizing time slot 1 & time slot 2 allowing 100% repeater operation over a simplex frequency (DMR mode only)

ManDown & Lone Worker

Cost effective and potentially lifesaving way of detecting if a worker has suffered a fall or had an accident. Provides safety requirements for lone working tasks to protect the lone worker

DTMF

DTMF encoding is possible by either live access from the radio keypad or by recalling previously configured and saved DTMF codes set up in the phone book by the Radio Dealer

PD-1600W ACCESSORIES

INCLUDED IN THE BOX



Antenna

812-14091063-001-1600



Battery

QB-L1800



Belt Clip

BC-1600W



Single Pocket Charger

SPC-1600

OPTIONAL EXTRAS



Waterproof Remote
Speaker Microphone

RT-SM26N2



Swivel / Earhook Earpiece

RTS-3327A-H4



Covert / Airtube Earpiece

RTC-4238-H4



Programming Cable

815-ADUH8E01-001-1600W



6 Bay Multicharger

MPC6R-1600W



12/18 Bay Multicharger

MPC12/18R-1600W