



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

GENERAL SPECIFICATIONS

Model PD-1600W

UHF U2: 450-520MHz

Channel Capacity 100 CH/16 Zones

> 200CH/8 Zones 25 kHz / 12.5 kHz

Channel Spacing Operating Temperature Frequency Stability ±2.5ppm Operating Voltage

Antenna Impedance $2.2K\Omega$ Microphone Impedance

Battery Life

Dimensions (W x L x H)

(5-5-90 duty cycle)

Weight

Frequency

VHF: 136-174MHz

UHF U1: 400-470MHz

 -25° C ~ + 60° C

7.4 VDC 50Ω

1800mAh: Analog 13.9 hrs

Digital 17.5 hrs 2200mAh:

Analog 16.9 hrs Digital 21.4 hrs

126mm x 53mm x 28.5mm

290g

(with battery and antenna)

TRANSMITTER

4FSK Digital Modulation

Digital Vocoder Type

(Signal to noise ratio)

Frequency Stability

Rated Audio Distortion

Max Frequency Deviation

Digital Protocol

Harmonic

SNR

H: UHF 4 W, VHF 5 W RF Power

L: 1.5 W

FM Modulation 16KΦF3E @ 25kHz

8KФF3E @ 12.5kHz

12.5 kHz Data: 7K60FXD 12.5 kHz Voice & Data:

7K60FXW

AMBE ++

ETSI-TS102 361-1, -2

≥ 70 dB

≤-45dB @ 25kHz ≤-40dB @ 25kHz

≤ 5%

± 2.5 ppm

≤5kHz @ 25kHz ≤2.5kHz @ 12.5 kHz

RECEIVER

Sensitivity Analog ≤0.22uV(12dB SINAD) @25kHZ

≤0.25uV(12dB SINAD) @12.5kHz

0.22uV (BER 5%) Digital

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

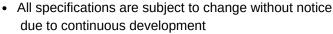
Rejection

Audio Output Power ≥ 1000 mW

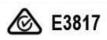
Rated Audio Distortion ≤ 5%







Complies with Australia / New Zealand RF standards







PD-1600W 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

QCOM (07) 3856 1513 | qcom.co

PD-1600W ACCESSORIES

INCLUDED IN THE BOX



Antenna 812-14091063-001-1600



Battery QB-L1800



Belt Clip BC-1600W



<u>Single Pocket Charger</u> SPC-1600

OPTIONAL EXTRAS



Waterproof Remote Speaker Microphone RT-SM26N2



<u>Swivel / Earhook Earpiece</u> RTS-3327A-H4



Covert / Airtube Earpiece RTC-4238-H4



<u>Programming Cable</u> 815-ADUH8E01-001-1600W



<u>6 Bay Multicharger</u> MPC6R-1600W



<u>12/18 Bay Multicharger</u> MPC12/18R-1600W