

## TP-150D

### Digital Portable Two-Way Radio

TalkPod™ TP-150D digital portable two-way radio use Time-Division Multiple-Access digital and DMR technology, operate in both digital and analogue mode, allows easily migrate from analog to digital, and well couple with MOTOTRBO series radios.

**In today' s business environment, easy, discreet and prompt communication with your workforce is vital to improving response time, empowering employees to accomplish more in less time and increasing customer satisfaction.**



1. Use Time-Division Multiple-Access (TDMA) digital technology which doubles the number of users on a single licensed 12.5kHz channel. Comply with the DMR digital protocol.
2. Operate in both Digital & Analogue mode, allows easily migrate from analog to digital.
3. Provides clearer voice communications in digital mode, throughout the coverage area.
4. Private call, group call and all call in digital mode.
5. Text messaging in digital mode.
6. Direct mode and Repeater mode.
7. Late Entry.
8. Integrates voice and data to increase operational efficiency.
9. Enhanced call management features include emergency, call alert, radio check, radio enable/disable.
10. Transmit admit criteria.
11. Build in CTCSS/DCS signaling in Analog mode.
12. Accessory connector incorporates USB and enhanced audio capability.
13. Tri-color LED Indicator for tx/rx status, calling, scanning.
14. Up to 1000 contacts in Digital mode.
15. Dual priority channel scan operates in both analogue/digital mode.
16. VOX (Optional)
17. Firmware can be updated easily to add new features.
18. Up to 40% longer battery duration.
19. IP65 Water Resistance & Dust Protector.

## General Specifications

|   |                                |
|---|--------------------------------|
| Model Number  | TP-150D                        |
| Frequency Range                                       | VHF:136-174MHz; UHF:400-470MHz |
| Channel Capacity                                      | 1000                           |
| Operating Voltage                                     | DC 7.4V                        |
| Operating Temperature                                 | -30°C ~ + 60°C                 |
| Store Temperature                                     | -40°C ~ + 85°C                 |
| Battery Life (5-5-90 Duty Cycle)                      | 10 hours                       |
| Dust-protection and water resistant                   | IP65                           |
| Dimensions (H×W×D)<br>(with battery, without antenna) | 113.5mm x 54mm x 33.5mm        |
| Weight (with antenna & battery)                       | 270g                           |

## Transmitter

|                                       |  |
|---------------------------------------|--|
| Frequency                             | VHF:136-174MHz; UHF:400-470MHz                                   |
| Channel Spacing                       | 12.5KHz  |
| Frequency Stability                   | + / - 1.0ppm   |
| Power                                 | 1W / 4W  |
| Hum and Noise                         | - 40dB @12.5KHz  |
| Conducted, radiated spurious emission | -36dBm@ <1GHz, -30dBm@ >1GHz                                     |
| Adjacent Channel Power                | -60dB @12.5KHz   |
| Adjacent Transient Channel Power      | -50dB @12.5KHz   |
| FM Modulation Mode                    | 12.5KHz: 11K0F3E   |
| 4FSK Digital Mode                     | 12.5KHz (data only): 7K60FXD<br>12.5KHz (data + voice) : 7K60FXE |
| Modulation Maximum Deviation          | 2.5KHz @12.5KHz  |
| Nonactive Slot Power                  | -57dBm   |
| Audio Response                        | +1dB ~ -3dB  |
| Audio Distortion                      | 3%v (Type)   |
| Digital Protocol                      | ETSI TS 102 361-1, -2, -3  |
| Vocoder Type                          | AMBE +2™   |

## Receiver

|                              |   |
|------------------------------|---|
| Analog Sensitivity           | 0.35uV/-116dBm (20 dB SINAD)<br>0.22uV/-120dBm (Type) |
| Digital Sensitivity          | 0.3uV/-117.4dBm (BER 5%)<br>0.7uV/-110dBm (BER 1%)    |
| Intermodulation              | TIA603C: 70dB ETSI: 65dB                              |
| Adjacent Channel Selectivity | TIA603C: 65dB @12.5KHz<br>ETSI: 60dB @12.5KHz         |
| Co-Channel rejection         | 12dB @12.5KHz   |
| Spurious Response rejection  | TIA603C: 75dB ETSI: 70dB                              |
| Conducted spurious emission  | -57dBm@ < 1GHz, -47dBm @ > 1GHz                       |
| Blocking                     | 84dB  |
| Rated Audio Power            | 1W  |
| Audio Response               | +1dB ~ -3dB   |
| Rated Audio Distortion       | 3% (Type)   |

\* Specifications subject to change without notice.