Talkpod

D50

DMR Digital Portable Radio

The D50 radio delivers simple voice communications for the everyday worker who wants to stay connected. This rugged portable is rated IP67, so it can against water from immersing and virtually dustproof for daily use in harsh environments.

DMR DIGITAL MOBILE RADIO ASSOCIATION FC C€

Talkpod Technology Co., Ltd.

Features

Classic Non–Screen	Simple Operation
Digital & Analog Dual Mode	IP 67 Highest
DMO 2–Slot	SOS Alarm
Intelligent Noise Reduction	AMBE ++ or AMBE +2TM
CE/FCC/IC/RCM	Trill Enhancement
40% Battery Life Increase	Microphone Distortion Control
DMR Tier II	Unique Serial Number

Special Function

- **Two–slot TDMA**

  Belonging to the DMR Tier II category, which covers licensed conventional systems, these radios are specified for 2–slot time division multiple access (TDMA) operation in 12.5 kHz channels. This means they can offer greater spectrum efficiency.

- **Hear, Loud and Clear**

  With the combined application of narrowband codec and digital error correction technologies, with Full–size front–facing FST 1W speaker, plus unique features such as Intelligent Audio and customizable voice announcement to help you hear and speak clearly wherever your employees work.

- **Elegant Ergonomics for Easy Use**

  The D50 Slim Styling design Anti–skidding design, and have Dual–color injection molding, functionality and style to meet the communication needs of customers in the Hotel, Retail, Warehouse, Events, and Security.

- **Analog & Digital Dual Mode**

  Get all the benefits of digital, including better voice quality, better range and better battery life–but retain compatibility with your existing radio fleet. With analog and digital capability, you have the freedom to migrate to the latest technology at your own pace.

- **Voice Announcement**

  Audible prompts confirm operations on your radio, allowing you to keep your eyes on the job.

- **Various Analog Signaling Types**

  Various analog signaling types various squelch control types (CTCSS/ CDCSS), thus providing higher function expansion capacity to the analog world.

- **Rapid Charging Technology**

  The Talkpod Single–Unit Charger provides maximum talk–time andoptimized battery life by smart rapid charging technology.
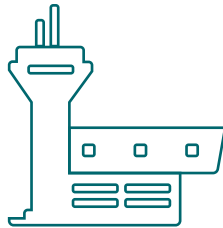
User Scenario

The communication needs of various business, service industry, and industrial and commercial user groups in offices, airports, hotels, and entertainment venues cover both form and function. In addition to its striking appearance, the D50 also has excellent communication effects, automatic encryption, intelligent power saving and other functions. It is a digital walkie–talkie that can respond to various situations.
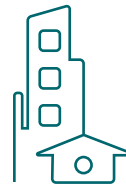
Hotel

Airport
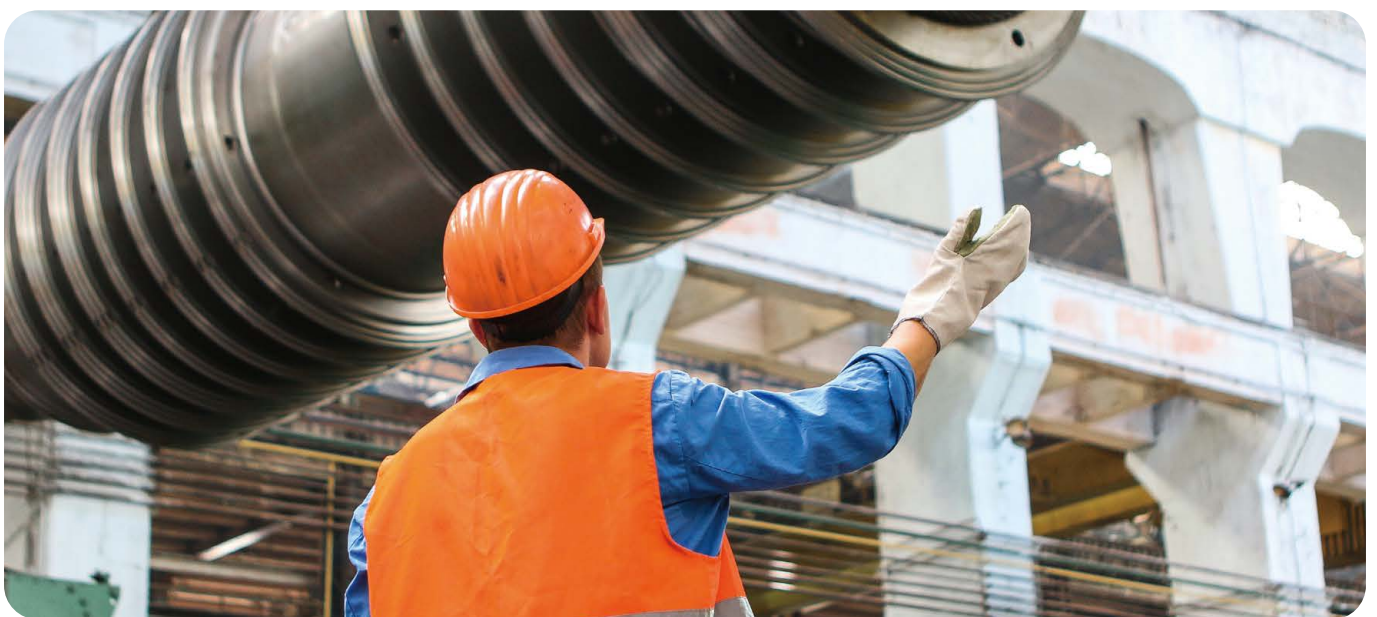
Mall

Retail

Warehouse

Education

Administrative

Engineering

Product Description

The excellent ergonomic design makes the D50 easily overcome long hours of work. Certified to be dust–proof, rain–proof, impact–resistant and drop–resistant, it has obtained IP54 and MIL–STD / 810C / D / E / F / G protection levels.

On/off volume knob

Headphone/data interface

Back clip

Custom side key 2

Charging contacts

Charging card slot

Antenna

Channel selection button

LED indicator

PTT launch button

speaker

microphone

Custom side key 1

Talkpod Technology Co., Ltd.

Product Acessories

Choose from a variety of Talkpod accessories designed, tested, and certified to optimize D50 performance. However, in order to ensure the use effect, we recommend using the accessories recommended by Talkpod.

Standard Accessories

TBL01	TBC02	TCA01	TAT01	TCL01	TST01

Optional Accessories

TBL02	TBC01	TCA08	TCC01	TBL02E	TMC02

TCA03	TAT02	TPC01	TCL05	TEM10

Product Specification

Transmitter	
Channel spacing	12.5/25kHz
4FSK digital modulation	12.5/25kHz data ony：7K60FXD 12.5kHz data & voice：7K60FXW
Digital protocol	ETSI–TS102 361–1, 2&3
Conducted / radiated emission	−36dBm <1GHz −30dBm >1GHz
Modulation limit	±2.5KHz @ 12.5KHz ±5.0KHz @ 25KHz
FM modulation(Analog emissions designator	11K fF3E @ 12.5kHz 16K fF3E @ 25kHz
Adjacent channel power	60dB @ 12.5KHz 70dB @ 25KHz
Frequency stability	±0.5ppm
FM hum & Noise	12.5kHz @ 11K0F3E

Receiving Part	
Sensitivity (digital)	0.35µV/−117dBm(SINAD) 0.22µV/−110dBm(Typical)
Sensitivity (analog)	0.35µV/−116dBm(SINAD) 0.22µV/−120dBm(Typical)
Adjacent channel selectivity 1T	60dB (12.5KH channel) 70dB (25KHz channel)
Adjacent channel selectivity 2T	60dB (12.5KH channel) 70dB (25KHz channel)
Inter modulation	70dB
Spurious rejection	70dB

General Specifications

Battery	7.4V/2000(Standard)/3000(Optional)mAh
Battery Life	1650mAh Battery: Talk (5–5–90): 10hrs 3000mAh Battery: Talk (5–5–90): 15hrs
Zone capacity	4
Channel spacing	12.5/12.5 KHz
Channel capacity	64
Dimensions Weight	115x55x30(mm) /4.52x2.16x1.18(in) 253g/8.92oz
Frequency Stability	±1.5ppm
Frequency Stability	50Ω
Increased Capacity	2–slot time division multiple access in 12.5kHz channel

Audio

Digital vocoder type	AMBE++ or AMBE + 2TM
Speaker	FST ND3662
Audio IC	ST TDA2822
Audio response	+1~–3dB
Rated audio output	1W
Rated audio distortion	≤3%
Conducted spurious	< –57dBm

Certification

CE FCC & IC ID	FCC 2ADQZTPD5X
Dustproof and waterproof	IP54 (Standard) /IP67 (Optional)

The above specifications are tested according to applicable standards. Due to the continuous development of technology, the above index data is subject to change without notice.

Model Information

Model number	D50–A3–U1	D50–A3–U4	D50–A3–U2	D50–A3–V1
Output Power	1–5W	1–5W	1–5W	1–5W
Frequency Range	400–470MHz	450–520MHz	350–400MHz	136–174MHz
Band	UHF	UHF	UHF	VHF

Environmental Index

MIL–STD	810C	810D	810E	810F	810G
Low Pressure	500.1/ I	500.2/ I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II
Temperature Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I, II
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I
Rain	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III
Humidity	507.1/ I, II	507.2/ II, III	507.3/ II, III	507.4	507.5/ II
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I
Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I
Shock	516.2/ I, II, V	516.3/ I, IV	516.4/ I, IV	516.5/ I, IV	516.6/ I, IV

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Talkpod is committed to developing products that help protect the environment.

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