

STANDARD CONFIGURATION



Charger



Antenna



Adapter(12V/1A)



Belt clip



Li-polymer battery
2400mAh



Strap

OPTIONAL SELECTION



Programming cable
(USB port)



Website



DM

TST-801P DMR Radio	
General	
Frequency Range	350-470MHz/136-174MHz/450-520MHz
Channel Capacity	1024
Zone Capacity	64
Zone Channels	256
Channel Spacing	12.5kHz / 20kHz/25kHz
Operating Voltage	7.7V (rated)
Battery	2400 mAh Li-polymer
Battery Life(5/5/90)	24h (GNSS OFF) 20h (GNSS ON)
Dimensions (H x W x D)	132 x 55 x 29.5mm (TBD)
Weight (with antenna & battery)	310g (TBD)
Display	LCD, 320×240 pixel, 262000 colors, 2.4 inch
BT	BT 5.0 BLE+EDR
Receiver	
Radio Audio Power Output	0.5W
Rated Audio Distortion	≤3%
Sensitivity	Analog: 0.16μV(Typical)
	Digital: 0.18μV/BER5%
Adjacent Channel Selectivity	TIA-603: 60dB@12.5kHz / 70dB@20/25kHz
	ETSI: 60dB@12.5kHz / 70dB@20/25kHz
Intermodulation	TIA-603: 70dB
	ETSI: 65dB
Spurious Response Rejection	70dB
Transmitter	
Digital Vocoder Type	AMBE+2TM
Audio Distortion	≤3%
RF Power Output	UHF:1W/4W
FM Hum & Noise	11K0F3E@12.5kHz; 14K0F3E@20kHz; 16K0F3E@25kHz
Conducted/Radiated Emission	-36dBm<1GHz; -30dBm>1GHz
FM Hum & Noise	40dB @ 12.5kHz; 43dB @ 20kHz 45dB @ 25kHz
Adjacent Channel Power	60dB @ 12.5kHz; 70dB @ 20/25kHz
Environment	
Operating Temperature	*-30℃~+60℃
Storage Temperature	-40℃~+85℃
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)
Dustproof & Waterproof	IEC60529 IP66 IP68
Shock and Vibration	Per MIL-STD-810H Standard
Location Services	
GNSS	*GPS, GPS+GLONASS, GPS+BDS
Horizon Accuracy	<5 meters
*Radio only - Battery -20℃	

PROFESSIONAL DMR PORTABLE
TWO-WAY RADIO EMPOWER YOUR OPERATION

TST-801P



BE ON THE CUTTING EDGE OF TECHNOLOGY

As a leading supplier, TST has a wealth of expertise in the development and manufacture of professional digital radios. At the same time, drawing inspiration from user feedback, we are constantly imagining and exploring an ecosystem of new standards, technologies, products and applications to better communicate. The TST-801P is our most advanced professional digital radio, representing the style and functionality of the future, refreshing the standard for digital radios to provide more efficient and reliable communication with loud and clear sound, powerful batteries, superior portability and robustness, and ease of use in a variety of environments and industries.



Lighter and Thinner

The optimized mechanical design and the well-designed lithium polymer battery in line with the TST-801P make the radio only 29.5 mm thick and weighs about 310g.

Long Battery Life

Using a unique product design and technology to reduce power consumption, the TST-801P uses a lithium polymer battery that is lighter and smaller than ever before. With a 5/5/90 operating cycle, 24 hour shift life at high transmit power is achieved and critical messages and calls are delivered throughout the day.

Loud and Clear

The TST-801P is equipped with powerful speakers that are optimized to help users hear clear sound even in noisy environments.

More Intuitive and Efficient

The TST-801P brings a large screen and a new intuitive UI to make operations more efficient. The 2.4-inch color screen displays more information per page. Messages are listed in the conversation for quick reading and viewing.

Great Coverage

The TST-801P extends the operating range and increases the communication distance through high receiving sensitivity and high transmitting power, extending communication to areas that were previously impossible. This enhanced coverage improves user security and minimizes network costs.

High Level of Robustness

The TST-801P is designed to comply with MIL-STD-810H. It is rated IP68 water and dust resistant and can withstand a drop of 2 meters onto concrete. No matter where users go to perform tasks, the TST-801P is a trusted partner because it can withstand the harshest environments.

Flexible wireless connectivity

The TST-801P supports built-in Bluebud 5.0 wireless connectivity. The advantages of Bluebud 5.0 are low power consumption, fast transmission, multiple devices, and richer data applications such as Bluebud headphones, Bluebud Patrol, and Bluebud location.

- Loud and clear voice
- Long battery life
- GPS location
- BT 5.0 voice and data
- SD Card Slot
- Hardware encryption
- Audio recording

Voice/Channel/Contact Switch

Emergency Alarm Button

High sensitivity antenna

Belt clip

Superior li-polymer battery

Programmable buttons

Supplementary Operating Modes

- Roaming
- Covert Mode
- Remote Monitor
- Alert Call
- Vocie Recording
- Digital conventional
- Analog conventional
- Digital trunking

Voice Service

- Private Call
- Group Call
- All Call
- PSTN/PABX Call
- Broadcast Call
- Emergency Call
- Call Priority

Safety

- Emergency
- Lone Worker
- Authentication
- End-to-End Encryption
- Disable/Enable

Analog Mode

- 2-Tone signaling
- 5-Tone Signalling
- HDC1200

