



# ST50

*Rugged-Reliable Two-way Radio*



## **Compact & Tough Design Professional Radio**

- Power Output: 5W
- Various Scan Modes
- Auto Battery Save
- Squelch Tail Elimination
- Dual PTT Buttons & Dual Channels Standby



# ST50

## Handheld Two-way Radio

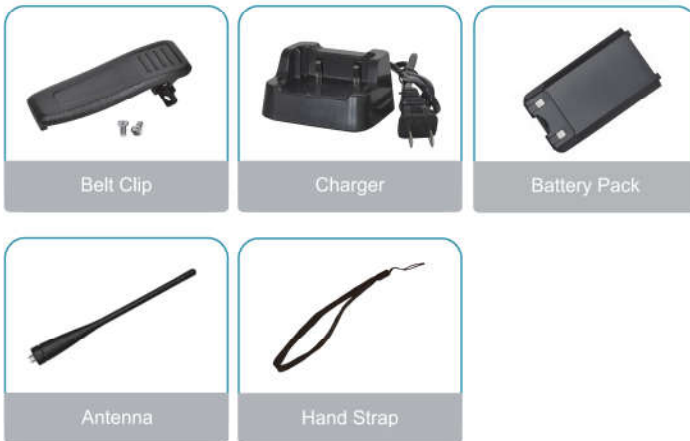
Declaration of Conformity:  
This Product complies with the requirements of  
QCVN 43:2011/BTTTT under  
Normal Test Conditions and Extreme Test Conditions.

<http://www.sfecom.cn>

### Main Features

- 16 Channels
- Power Output: 5W
- TOT (Time Out Timer)
- Powerful Audio Output
- CTCSS/DCS Encode & Decode
- Auto Battery Save & Low Battery Alert
- Squelch Tail Elimination
- Side Key Assignment Programmable
- Compact and Tough Design
- Channels Scan & Priority Scan
- Wide/Narrow Bandwidth  
25KHz/20KHz/12.5KHz(Selective)
- Dual PTT Dual Standby

### Accessories



### General

Frequency Range:	VHF:136-174MHz/ UHF: 400-470MHz
Channel Capacity	16 Channels
Operation Voltage	DC 7.2V±10%
Channel Spacing	25KHz(Wide)/20KHz(Middle)/12.5KHz(Narrow)
Antenna Impedance	50 Ω
Battery Capacity	2000mAh(Li-Ion Battery)
Battery Life (5-5-90 Duty Cycle)	About 20 Hours
Operating Temperature	-30°C - +60°C
Frequency Stability	± 2.5ppm
Dimension(W*H*D)(Projections excluded)	116*54*30mm
Weight(Antenna & Battery Included)	270g

### Transmitter (ETSI EN 300 086 Testing Standard)

Bandwidth	Wide Band 25KHz	Narrow Band 12.5KHz
RF Power Output(High/Low)	5W	
Modulation	16KΦF3E	11KΦF3E
Spurious Emission	≥ 36dB	≥ 36dB
Adjacent Channel Power	≥ 70dB	≥ 60dB
Hum & Noise	≥ 40dB	≥ 36dB
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.25KHz)
Modulation Limiting	±5.0KHz ±2.5KHz	±2.5KHz
Modulation Distortion	Less than 5%	
Frequency Stability	+/-5ppm	

### Receiver (ETSI EN 300 086 Testing Standard)

Bandwidth	Wide Band 25KHz	Narrow Band 12.5KHz
Sensitivity(12dB SINAD)	≤ 0.25μV	≤ 0.35μV
Adjacent Channel Selectivity	≥ 70dB	≥ 60dB
Intermodulation	≥ 65	≥ 60dB
Spurious Response Rejection	≥ 70dB	≥ 70dB
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.25KHz)
Hum & Noise	≥ 45dB	≥ 36dB
Audio Distortion	≤ 5%	
Audio Output	500mW with less than 10% distortion	

Above specifications are tested according to TIA/EIA-603.  
Above specifications are subject to change without any notice due to technology enhancement.

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