

**Applicable MIL-STD-810C/D/E/F**

Applicable MIL-STD	810C Methods Procedures	810D Methods Procedures	810E Methods Procedures	810F Methods Procedures
Low Pressure	500.1 1	500.2 1,2	500.3 1,2	500.4 1
High Temperature	501.1 1,2	501.2 1,2	501.3 1,2	501.4 1,2
Low Temperature	502.1 1	502.2 1,2	502.3 1,2	502.4 1,2
Temp. Shock	503.1 1	503.2 1	503.3 1	503.4 1
Solar Radiation	505.1 1	505.2 1	505.3 1	505.4 1,2
Rain	506.1 2	506.2 2	506.3 1,2	506.4 1,2
Humidity	507.1 2	507.2 2,3	507.3 2,3	507.4 1
Salt Fog	509.1 1	509.2 1	509.3 1	509.4 1
Dust	510.1 1	510.2 1	510.3 1	510.4 1
Vibration	514.2 8,10	514.3 1	514.4 1	514.5 1
Shock	516.2 1,2,5	516.3 1,4	516.4 1,4	516.5 1,4

**General**

Frequency Range(MHz)	446.00625 MHz-446.09375 MHz
Channel Capacity	16
Channel Spacing(KHz)	12.5KHz
Operating Voltage(V)	7.4V
Standard Battery	1650mAh (Li-Ion)
Battery Life (5-5-90 Duty Cycle)	Up to 24 hours
Frequency Stability(ppm)	± 2.5 ppm
Operating Temperature(°C)	-25°C ~ +60°C
Antenna Impedance(Ω)	50 Ω
Dimensions (H × W × D)(with battery, without antenna)(mm)	113x54x35mm
Weight (with antenna & battery)(g)	270g

**Transmitter**

RF Output Power	0.5W
Modulation	8K Φ F3E
Spurious and Harmonics	≤-36dBm (<1GHz) ≤-30dBm (>1GHz)
FM Noise	≤-38dB
Audio Distortion	≤ 5%

All Specifications are tested according to ETSI EN 300 296, and subject to change without notice due to continuous development.

**Receiver**

Sensitivity	≤0.282 μ V
Selectivity	≥60dB
Intermodulation	≥60dB
Spurious Response Rejection	≥70dB
S/N	≥40dB
Rated Audio Power Output	800mW (Speaker impedance: 16 ohm)
Rated Audio Distortion	≤5% (800mW)



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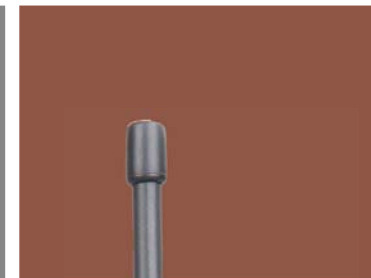
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# TC-446S

*Professional  
License-free Radio*



- License-free Radio
- Light Weight and Tough Design
- Longer Battery Life
- Enhanced Voice Quality

As a combination of cutting-edge analog technologies and user-centered design, TC-446S gives an edge to your productivity and management efficiency. With its compact design and lightweight chassis, this tough radio is an ideal choice for management in facilities, hospitality, manufacturing, retail, education and construction. Besides, TC-446S provides up to 24 hours of battery life to ensure long-lasting performance and convenience. Affordable price and distinct performance - TC-446S deserves your trust.

# TC-446S

## Professional License-free Radio

### Product Features

#### License-free Radio

With TC-446S, you can enjoy charge-free communication easily.

#### Light Weight and Tough Design

TC-446S has a light-weight but exceptionally strong body, allowing it to be carried about easily and to survive harsh conditions.

#### Longer Battery Life

TC-446S is equipped with a 1650mAh battery that enables you to transmit and receive, on a 5-5-90 basis, for up to 24 hours.

#### Enhanced Voice Quality

TC-446S employs advanced voice technologies to better the sound quality during your communication.

### Applications

- Facilities
- Hospitality
- Manufacturing
- Retail
- Education
- Construction

### Main Features

Voice-operated Transmit (VOX)

Battery Strength Indicator

Monitor

CTCSS/CDCSS and Squelch Tail Elimination

Scan

Battery Save

Low Battery Alert

Busy Channel Lockout

Time-out Timer (TOT)

PC Programmable

Wired Clone

Two Squelch Levels Selectable



### Accessories

Standard Accessories	Li-Ion Battery (1650mAh) BL1719 Switching Power Ps1018	Rapid-rate Charger (for Li-Ion Battery) CH10L12 Belt Clip Bc12 Strap RO03
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#### Featured Optional Accessories



Six-unit Switching Power PS7002  
(The power cable may vary in different countries and areas)



Diagram for use:  
The six-unit switching power works with multiple standard chargers.

Highlights: This six-unit switching power can work with multiple standard chargers simultaneously, making it an ideal choice for large-scale groups and labor-intensive activities.

#### Optional Accessories



Li-Ion Battery (1300mAh) BL1301



Vehicle Power Adapter CHV09



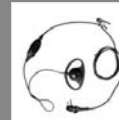
Earbud with in-line PTT & VOX ESM11



Earbud with on-MIC PTT & VOX ESM12



D-earset with Boom Microphone & VOX EHM16



D-earset with in-Line MIC & VOX EHM15



Earpieces with on-MIC PTT & VOX & Transparent Acoustic Tube EAM12



Nylon Carrying Case (non-swivel) (black) NCN001



Remote Speaker Microphone SM08M3



Receive-Only Earbud (for use with remote speaker microphone) ESS07



Receive-Only Earpiece with Transparent Acoustic Tube (for use with remote speaker microphone) ESS08



Cloning Cable CP05

Programming Cable (COM Port) PC19  
Programming Cable (USB to Serial Port) Pc26

