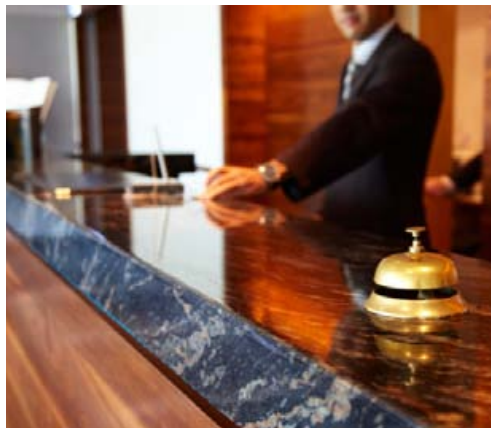


**HYT**

Two-way Radio

# 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 R003

### Optional Accessories



Li-Ion Battery  
(1300mAh) BL1301



Vehicle Power Adapter  
CHV09



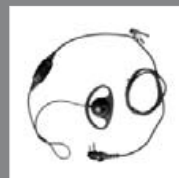
Earbud with in-line  
PTT & VOX ESM11



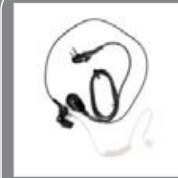
Earbud with on-MIC  
PTT & VOX ESM12



D-earset with Boom  
Microphone & VOX EHM16



D-earset with in-Line  
MIC & VOX EHM15



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



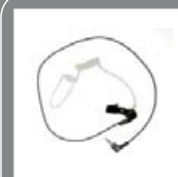
Nylon Carrying Case  
(non-swivel) (black)  
NCN001



Remote Speaker Microphone  
SM08M3



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

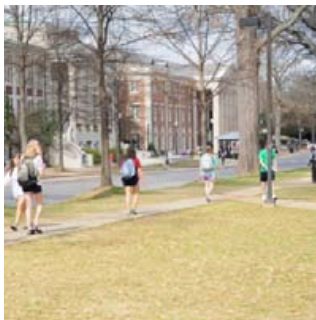


Receive-Only Earpiece with  
Transparent Acoustic Tube  
(for use with remote speaker  
microphone) ESS08



Cloning Cable  
CP05

+ Programming Cable (COM Port) PC19  
Programming Cable (USB to Serial Port) PC26



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

| Applicable MIL-STD | 810C    |            | 810D    |            | 810E    |            | 810F    |            |
|--------------------|---------|------------|---------|------------|---------|------------|---------|------------|
|                    | Methods | Procedures | Methods | Procedures | Methods | Procedures | 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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