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

Applicable MIL-STD	810C Methods	810C Procedures	810D Methods	810D Procedures	810E Methods	810E Procedures	810F Methods	810F 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)	VHF: 146-174 UHF: 400-420 440-470 420-450 450-470 470-490
Channel Capacity	16
Channel Spacing(KHz)	25 /12.5
Operating Voltage(V)	7.5
Battery	1200mAh (Li-ion)
Battery Life (5-5-90 Duty Cycle)	
1200mAh Li-Ion battery	More than 9 hours
1300mAh Ni-MH battery	More than 9 hours
2000mAh Li-Ion battery	More than 14 hours
Frequency Stability(ppm)	± 2.5
Operating Temperature(℃)	-20~+50
Antenna Impedance(Ω)	50
Dimensions (H × W × D)(with battery, without antenna)(in.)	4.69*2.17*1.30
Weight (with antenna & battery)(oz.)	9.52

Transmitter

RF Power Output	5W/2W (VHF) 5W/2W (UHF)
Modulation	F3E
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
FM Noise	40/34 dB
Audio Distortion	≤5 %

All Specifications are tested according to TIA/EIA-603, and subject to change without notice due to continuous development.

Receiver

Sensitivity	0.25/0.28 μ V
Selectivity	70/60 dB
Intermodulation	≥60 dB
Spurious Response Rejection	≥70 dB
S/N	45/40 dB
Rated Audio Power Output	800 mW
Rated Audio Distortion	≤5%

FCC Approved Bands: (136-174MHz)
FCC ID Number R74TC-610V2
FCC Approved Bands:(450-470MHz)
FCC ID Number R74TC-610U2
****MIL 810 and IP grade specifications require the connector cover to be connected**

ISO9001:2000 *Certificate* NO:**FM** 61540

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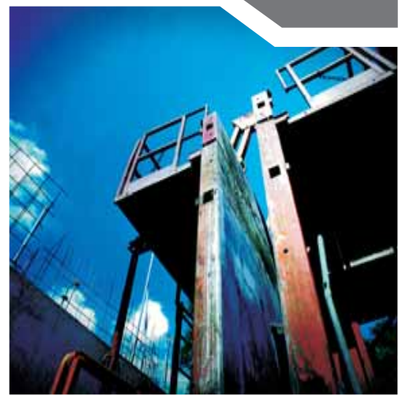
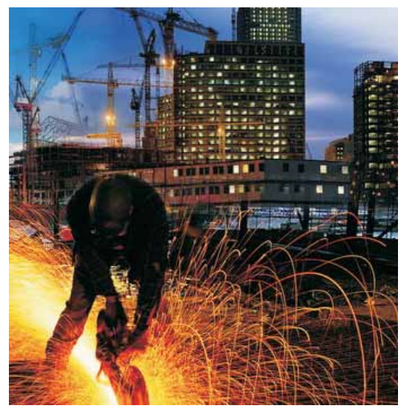
HYT AMERICA, INC.

TC-610

Professional Two-way Radio





- **Water Protection Class IP66**
- **Powerful Audio and Wide Communication Range**
- **LED Battery Gauge**
- **Unique Structural Design**

NA117080512A

www.hytamerica.com

Harsh, noisy and dusty working conditions in mega-project and construction sites may lower your efficiency by dirtying the radio and affecting the communication. HYT's TC-610 portable radio is customized for users in these industries, as its superior IP66-rated protection helps to seal out water and dust, thus improving efficiency and prolonging radio life.

TC-610

Professional Two-way Radio

Super Features

Water Protection Class IP66
In harsh, noisy and dusty working conditions such as construction sites, your radio is apt to be dirtied. The TC-610 will bring you reliable communication and high productivity in these working conditions, and its superb waterproof performance allows you to wash off mud and dust on your radio. Other radios with poor waterproof performance may not work after you wash them.

Double Injection Molding
The TC-610's double injection molding uses two high quality materials to ensure that the radio is rugged, yet comfortable to handle. Due to this superior technology, the TC-610 has a lower chance of dropping while in use.

Powerful Audio and Wide Communication Range
A powerful speaker with a diameter of 45mm (36mm for speakers of common radios) ensures superb clear, crisp sound, even in noisy environments.
High transmit power (5W for UHF frequency band) accommodates wide communication coverage.

LED Battery Gauge
Non-display radios generally have no battery power indicator. The TC-610 allows you to simply press one button to illuminate the tri-color LED battery gauge, which indicates battery strength levels for more effective power management.

Unique Structural Design
The Unique battery latch structure delivers secure connection between the battery and the radio, as well as simple operation.

* IP66 water protection ensures the radio to be protected against a water jet for one minute. The diameter of the water jet is 40 mm.

Main Features

High/Low Power Switchable
By simply pressing one button, users can switch to low power when communicating within limited range coverage or switch to high power when further distance is required. High transmit power optimizes range coverage while low transmit power conserves battery consumption, all at the user's control.

Programmable 12.5kHz / 25kHz Channel Spacing
This feature enables flexibility and easy migration of channel spacing requirements when the need arises, with no need to buy new radios.

Monitor
Allows users to monitor the activity on the current channel. The feature is especially helpful when receiving a weak signal.

Battery Save
The Battery Save feature is automatically activated once no activity on the channel and no operation has been performed for an extended operation time.

Low Battery Alert
Alert users to recharge the battery should the battery level run low.

Busy Channel Lockout
A channel already in use is not available to other users.

Time-out Timer
The feature allows for more efficient use of channels by limiting the amount of time of each transmission.

PC Programmable
You are able to customize the features of each radio for each user.

Wired Clone
Easily copy the features of one radio to another.

CTCSS/CDCSS
Set up workgroups/users with unique CDCSS/CTCSS to prevent unwanted conversations on the same frequency.

Selectable Squelch Level (0-9)
Helps minimize interference from undesired weak signals and helps hear weak signals.

Channel Scan
The channel scan feature enables the radio to continuously scan each channel in the scan list for activity. Simply press a side function button to activate scanning. When activity is detected on a channel the scan process will stop and you will hear the transmission.

Voice Operated Transmit (VOX)
Enjoy the convenience of hands-free operation when used with optional accessories.

Recommended Applications

- Construction sites
- Manufacturing
- Ports
- Hotel
- Property management
- Warehousing

Accessories

Standard Accessories	U/V Antenna	MCU Charger CH10A03	Belt Clip BC12
	Li-ion Battery (1200mAh) BL1204	Switching Power PS1037(UL)	Strap RO03

Optional Accessories

Ni-MH battery (1300mAh) BH1303

MCU rapid-rate multi-unit charger for Li-ion/Ni-MH batteries MCA02

Six-unit switching power (with UL power cord) PS7001

Li-ion battery (2000mAh) BL2001

Vehicle Adapter CHV09

Noise-Canceling Remote Speaker Microphone (IP56) SM13M1

Noise-Cancelling Remote Speaker Microphone (Antenna Applicable) SM13M2

Remote speaker microphone SM08M3

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

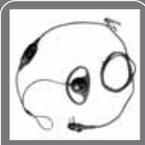
Receive-only Earbud (for use with remote speaker microphone) ESS07

Heavy weight high-quality noise-cancelling & VOX headset ECM13

Behind-the-head, noise-cancelling & VOX headset ECM14

Light Weight, Throat-Vibrating Earpiece ELM01

Ear Canal Bone Induction Earpiece EBM01



D-earset with in-Line PTT & microphone & VOX EHM15

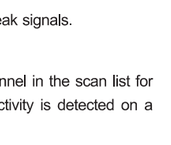
D-earset with boom microphone & in-Line PTT & VOX EHM16

Universal Nylon Chest Pack (Black) LCBN13

Leather Carrying Case (non-swivel) case LCBN56

Light-weight, Behind-the-Head earpiece with in-Line PTT & VOX EOM11

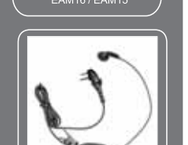
Light-weight, Single-Muff Headset with in-Line PTT & VOX ECM12



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

2-Wire Surveillance Earpiece with VOX & Transparent Acoustic Tube (black) EAM13

3-Wire Surveillance Earpiece with Transparent Acoustic Tube (black/beige) EAM16 / EAM15



Earbud with in-Line PTT & VOX ESM11

Earbud with on-MIC PTT & VOX ESM12