

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)	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(°C)	-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 %

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%

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

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



HYT America, Inc.

320 International Parkway, Sunrise, Florida 33325

Tel: 954-846-1011 Fax: 1-954-846-1672 Toll Free: 800-845-1230

www.hytamerica.com

SHENZHEN HYT SCIENCE & TECHNOLOGY CO., LTD. <http://www.hyt.cn>

HYT is the registered trademark of Shenzhen HYT Science & Technology Co., Ltd. © 2007 HYT Co., Ltd. All Rights Reserved.

HYT retains right to change the product design and specification. Should any printing mistake occur, HYT doesn't bear relevant responsibility. Little difference between real product and product indicated by printing materials will occur by printing reason.

Your Local Dealer

Alpha Prime Communications

Sales . Rentals . Service

1808 Janke Drive, Suite E

Northbrook, IL 60062 USA

847-298-4000

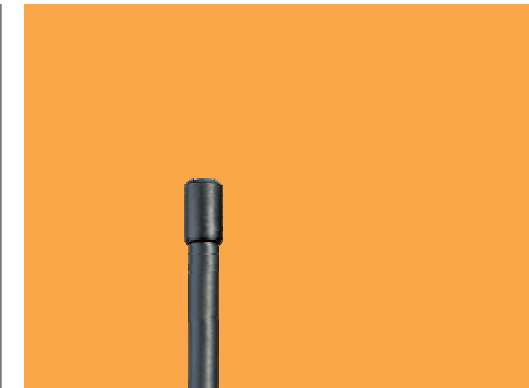
service@alphaprimecomm.com

The advanced provider of professional wireless communication

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 Li-ion Battery (1200mAh) BL1204	MCU Charger CH10A03 Switching Power PS1037(UL)	Belt Clip BC12 Strap RO03
----------------------	--	---	------------------------------

Optional Accessories

 Ni-MH battery (1300mAh) BH1303	 MCO rapid-rate multi-unit charger for Li-ion/Ni-MH batteries MCA02	 Six-unit switching power (with UL power cord) PS7001	 Light-weight, Behind-the-Head earpiece with in-Line PTT & VOX ECM11
 Li-ion battery (2000mAh) BL2001	 Vehicle Adapter CHV09	 Light-weight, Single-Muff Headset with in-Line PTT & VOX ECM12	 Earpiece with on-MIC PTT & VOX & Transparent Acoustic Tube EAM12
 Noise-Cancelling Remote Speaker Microphone (IP56) SM13M1	 Heavy weight high-quality noise-cancelling & VOX headset ECM13	 Light Weight, Throat-Vibrating Earpiece ELM01	 2-Wire Surveillance Earpiece with VOX & Transparent Acoustic Tube (black) EAM13
 Noise-Cancelling Remote Speaker Microphone (Antenna Applicable) SM13M2	 Behind-the-head, noise-cancelling & VOX headset ECM14	 Ear Canal Bone Induction Earpiece EBM01	 3-Wire Surveillance Earpiece with Transparent Acoustic Tube (black/beige) EAM15 / EAM15
 Remote speaker microphone SM08M3	 Receive-only Earpiece with Transparent Acoustic Tube (for use with remote speaker microphone) ESS08	 D-earset with in-Line PTT & microphone & VOX EHM15	 Earbud with in-Line PTT & VOX ESM11
 Receive-only Earbud (for use with remote speaker microphone) ESS07	 D-earset with boom microphone & in-Line PTT & VOX EHM16	 Universal Nylon Chest Pack (Black) LCBN13	 Earbud with on-MIC PTT & VOX ESM12
		 Leather Carrying Case (non-swivel) case LCBN56	