

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

FM-Approved Intrinsically Safe Model – I.S. Class I, II, III, Division 1, Group C, D, E, F, G, T3C. For more information on the TC-700EX's FM Certification got to www.hytagamerica.com

General

Frequency Range(MHz)	VHF: 136-174 UHF: 350-390* 440-490 400-470 450-520
Channel Capacity	16
Channel Spacing(KHz)	25 /20/12.5
Operating Voltage(V)	7.4
Battery	1700mAh (Li-ion)
Battery Life (5-5-90 duty cycle)	About 14 Hours
Frequency Stability(ppm)	±2.5
Operating Temperature	-22°F ~ 140°F; -4°F ~ 122°F (700EX)
Antenna Impedance	50Ω
Dimensions(LxWxH)(with battery, without antenna)	4.80 in. x 2.16 in. x 1.38 in.; 4.80 in. x 2.16 in. x 1.50 in. (700EX)
Weight (with antenna & battery)	11.15 oz.; 15.03 oz. (700EX)

**Frequencies marked with an asterisks(*) are not FCC compliant and are sold for export only by HYT America.*

Transmitter

RF Power Output	5W/2W/1W (VHF) 4W/2W/1W (UHF); 3.5W/1W (700EX)
Modulation	16K π 3E/11K π 3E
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
FM Noise	45/40dB; 40/34dB (700EX)
Audio Distortion	≤5%

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

Receiver

Sensitivity	0.25/0.35μV
Selectivity	70/60dB
Intermodulation	65dB
Spurious Response Rejection	70dB
S/N	45/40dB
Rated Audio	1W; 0.5W (700EX)
Rated Audio Distortion	≤10%; ≤5% (700EX)

FCC Approved Bands: (136-174MHz)
FCC ID Number: R74TC-700V

FCC Approved Bands: (136-174MHz)
FCC ID Number: R74TC-700EV

FCC Approved Bands: (400-490MHz)
FCC ID Number: R74TC-700U

FCC Approved Bands: (440-490MHz)
FCC ID Number: R74TC-700EU2

FCC Approved Bands: (400-470MHz)
FCC ID Number R74TC-700U7

FCC Approved Bands: (400-470MHz)
FCC ID Number: R74TC-700EU7

FCC Approved Bands: (450-520MHz)
FCC ID Number R74TC-700U8



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The advanced provider of professional wireless communication



TC-700

Professional Two-way Radio



- WIDE-BAND COVERAGE
- HIGH-QUALITY AUDIO OUTPUT
- SAFETY ASSURANCE
- HYT HDC2400™ and HDC1200 Signalling
- FM-Approved Intrinsically Safe Model Available



www.hytagamerica.com

Super Functions

Wide-Band Coverage

Allows users the flexibility to select their frequency for use in their respective work environment.

Powerful Audio Output

HYT's voice compander audio enhancement and a powerful 1W speaker (with a diameter of 1.6 inches) ensure superb clear, crisp sound, even in noisy environments.

Safety Assurance

Safety and security are critical factors for modern organizations. The TC-700's Lone worker, Man Down (optional) and Emergency Siren features are designed to assure your safety in case of emergencies or accidents.

Built-in Scrambler

Maintaining private and secure communications is increasingly important, with potentially sensitive information flowing back and forth. This feature provides enhanced security for your important communications.

IP54 Rated Water and Dust Protection

Water and dust protection rated IP54, meaning that dust does not enter in sufficient quantity to interfere with the satisfactory operation of the equipment, and that splashes of water against enclosure from any direction shall have no harmful effects.

Professional Two-way Radio

Channel Annunciation

The feature enables radio to report the current channel number when power on or switching channel, enabling user channel recognition without looking at the radio.

HYT HDC2400™ and HDC1200 Signalling

HYT HDC2400™ signaling system allows features including Identification, Calling Timer, Voice Storage, Retrieve Record, Individual Call, Group Call, Broadcast, Stun/Kill & Revive, Status Inquiry, Short Message and Data Transmission. (Some are features of dispatch center.)

Compatible with MDC1200, the HDC1200 Signalling allows functions including PTT ID Encode, Emergency Encode, Radio Check Decode, Stun/Kill & Revive, Individual Call, Group Call, Broadcast, etc.

Lone Worker

The feature provides added security and safety for individuals who work remotely from their team. Should a user not respond to a regular warning tone then a defined emergency procedure is activated.

Whisper

The Whisper feature means that even the quietest message can be transmitted and understood. This is an essential feature for environments where discreet communication is necessary.

Additional Features

FM-Approved Intrinsically Safe Model Available

"Intrinsically Safe" is a fire safety rating given to the equipment by the Factory Mutual Research Corporation. This TC-700EX is considered safe to use in certain combustible atmospheres.

Additional Safety Features For IS Model:

Encapsulation / Casting Compound prevents the ignition of the surrounding explosive atmosphere.

A specialized structural design that prevents the battery and radio unit from accidental separation, which can ignite a spark causing hazardous results in combustible environments.

FM-approved accessories are available and are listed below the regular accessories.









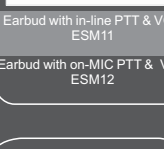
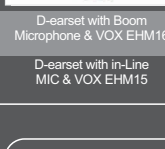
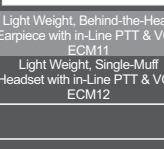
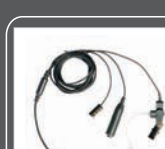



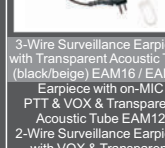
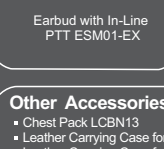
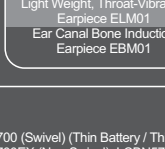
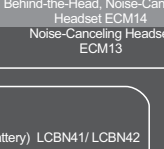
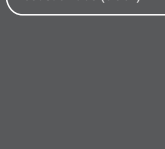
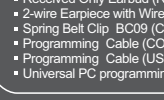
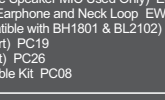
Man Down (Optional Feature for Regular TC-700 & IS Model)

When feature enabled, a defined emergency procedure is activated if the radio is horizontally or inversely positioned for a certain length of time. Place the radio vertically to disable the emergency.

Accessories

Standard Accessories	UHF / VHF Antenna Spring Belt Clip BC08 (compatible with BL1703) Switch Power (100-240V) PS1009 (for use with different power cords in different countries and areas)	MCU Rapid-rate Charger CH10L07 Li-Ion Battery (1700mAh) BL1703 Strap RO04
TC-700EX Std. Accessories	Li-Ion Battery(1700mAh) BL1703-EX Rapid-rate Charger for Li-Ion Battery CH10L11-EX Switching Power PS1009	Power Cable Belt Clip with Metal Holder BC09 Strap RO04

Optional Accessories

 Li-Ion battery pack (2100mAh) BL2102 Ni-MH battery (1800mAh) BH1801	 MCU rapid-rate multi-unit charger for Li-Ion/Ni-MH batteries MCA03	 Six-unit switching power PS7001 Vehicle Adapter CHV09	 Noise-Cancelling Remote Speaker Microphone (Antenna Applicable) SM13M2
 Earbud with in-Line PTT & VOX ESM11	 D-earset with Boom Microphone & VOX EHM16	 Light Weight, Behind-the-Head Earpiece with in-Line PTT & VOX ECM11	 Noise-Cancelling Remote Speaker Microphone (IP56) SM13M1
 Earbud with on-MIC PTT & VOX ESM12	 D-earset with in-Line MIC & VOX EHM15	 Light Weight, Single-Muff Headset with in-Line PTT & VOX ECM12	 Remote Speaker Microphone SM08M3
 Li-Ion Rapid-Rate Multi-Unit Charger MCL07-EX	 Light Weight, Throat-Vibrating Earpiece ELM01	 Behind-the-Head, Noise-Cancelling Headset ECM14	 3-Wire Surveillance Earpiece with Transparent Acoustic Tube (black/beige) EAM16 / EAM15
 Remote Speaker Microphone SM08M1-EX	 Ear Canal Bone Induction Earpiece EBM01	 Noise-Cancelling Headset ECM13	 Earpiece with on-MIC PTT & VOX & Transparent Acoustic Tube EAM12
 Earbud with In-Line PTT ESM01-EX	 2-Wire Surveillance Earpiece with VOX & Transparent Acoustic Tube (black) EAM13		

Other Accessories

- Chest Pack LCBN13
- Leather Carrying Case for TC-700 (Swivel) (Thin Battery / Thick Battery) LCBN41 / LCBN42
- Leather Carrying Case for TC-700EX (Non-Swivel) LCBN57
- Received Only Earbud (Remote Speaker MIC Used Only) ESS01
- 2-Wire Earpiece with Wireless Earphone and Neck Loop EWM03
- Spring Belt Clip BC09 (Compatible with BH1801 & BL2102)
- Programming Cable (COM port) PC19
- Programming Cable (USB port) PC26
- Universal PC programming Cable Kit PC08

Safety Check

Should the user not respond to a safety check signal from the dispatch center or another authorized radio, a defined emergency procedure is activated.

Power on Self-Test

The radio itself checks radio status automatically when power on, and emits corresponding alert if an error occurs (e.g. CPU error or EEPROM error), allows the user to early detect unit faults.

Embedded Message & Serial Number

The radio's memory can store messages including service and programming records, for remarkable ease of maintenance; this feature also makes a unit identifiable by Serial Number.

Emergency

Press the Emergency key to emit emergency alarm, or send ENI (Emergency Number Identity) / background tone to a pre-defined person or the dispatch center (selectable via programming software).

Auto Contact

Helpful in high-demanding communication environments, such as rescue work. When enabled, radio beeps when moving out of range.

Rental Feature

The Rental feature enables the setting of the time period that a radio will be rented. The radio will be disabled once the time elapses.

Software Upgradeable (optional)

Allows new functions add-in to accommodate future updates.

PC Tuning

Enables remarkable ease of maintenance.

Patrol Record (optional)

Patrol system allows for real-time monitoring of personnel rounds and consists of the TC-700 radio supporting the patrol record feature, patrol point TX-90, control center TM-800, patrol management software, data transmission cable.

Recommended Applications

- Security
- Firefighters
- Public Utilities
- Education
- Manufacturing
- Petrochemical (700EX)
- Property Management
- Construction Sites
- Hotel
- Police
- Mining (700EX)



FM
Intrinsically Safe
Model Available

APPROVED

TC-700

TC-700 Series

Packed with cutting-edge technology and HYT innovations, the TC-700 Series voice compander audio enhancement and a powerful 1W speaker ensure superb clear, crisp sound, even in noisiest environments. Its sleek, ergonomic design makes it easy to hold and carry.

Due to the TC-700's ruggedness and durability it is considered one of the most dependable radios on the market, while its affordable pricing make it an attractive option for any organization looking for a cost-effective wireless communication solution.

TC-700EX : Intrinsically Safe Model

Radios for use in the potentially explosive environments of oil and gas installations, such as tankers or drilling platforms, or in gas-laden atmospheres encountered by the emergency services must be designed and constructed to be totally safe. HYT's FM-Approved Intrinsically Safe TC-700 model gives users the communications they need without compromising safety.

Other versions of the TC-700 include Patrol Radios (for use with the Patrol System) and a version with the ManDown feature.