



Analog Product Catalog



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Commercial

TC-320 Portable Radio

TC-320 is unique for its compact design and superb audio quality. Its rugged body prevents damage against drops of up to five feet and its high-capacity battery provides over 9 hours of reliable operation. Allowing users to fully enjoy the benefits of real-time communication with favorable price, TC-320 is perfect for hotels, retail stores, and schools.



TC-320

Highlights »

Compact & Rugged Body

Strong enough to withstand 1.5m drop with compact body design.

Ergonomic Design

Help relieve fatigue from long-time operation.

Innovative Remote Ring PTT

The innovative Remote Ring PTT enables you to enjoy more convenient communication just by a finger operation.

Double Injection Molding & Anti-skid Design

The combination of double injection molding and anti-skid technology brings you comfortable and convenient operation experience.

Chargeable and Programmable through Mini USB Interface

You can directly charge or program TC-320 through its new added mini USB interface.

Features »

Long Battery Life

The 1700mAh high capacity Li-ion battery secures a battery life up to 10 hours.

Enhanced Audio Quality

With advanced audio compandor technology, TC-320 ensures superior audio quality even in noisy environments.

Battery Strength Indicator

Just with a key-press, you can know the current battery strength from the color of LED indicator, which accordingly throws away your trouble on the specific charging time.

Scrambler

This function is used for audio encryption, which can greatly enhance communication confidentiality and prevent radios without this function from intercepting the conversation.

Battery Save

The Battery Save function is automatically activated once no activity on the channel and no operation performed.

Wired Clone

Easily copy the configuration of one radio to another through the clone cable, requiring no PC programming operation.

CTCSS/CDCSS and Squelch Tail Elimination

38 groups standard CTCSS and 83 groups standard CDCSS are available. If your radio is set with CTCSS or CDCSS, both the interference from the same frequency and the squelch tail from communication termination or carrier disappearance will be eliminated.

High/Low Power Switchable

Allow the radio to switch to low power by simply pressing one button pre-set as High/Low Power Switchable 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 saves battery.

PC Programmable

Enable you to program the radio's frequency and other function settings without disassembling it.

Monitor

Pressing MONI key, the activity in current channel can be monitored, which is especially useful when receiving weak signal.

Programmable 25KHz/12.5KHz Channel Spacing

For future adaptability, you can program the TC-320 channel spacing as 25KHz or 12.5KHz through programming software, no need to buy a new radio.

Busy Channel Lockout (BCL)

BCL can prevent radio from receiving any unconfirmed signal and transmitting signal to any busy channel, keeping the channel clean and free of interference.

Time-out Timer (TOT)

This function allows for more efficient use of channels by limiting the amount of time of each transmission.

VOX Earpiece

If VOX (Voice Operated Transmit) is programmed in your radio, you can communicate through your VOX earpiece to enjoy hands-free operation.

Channel Scan

Enable the radio to continuously scan each channel in the scan list for activity by simply pressing the side function button to activate scanning. When activity is detected on a channel, the scan process will stop and you will hear the transmission.

Low Battery Alert

Alert you to recharge the battery when it runs low.

Applications »

Hospitality, Retail, Education.



Specifications »

General	Frequency Range	400-420MHz	450-470MHz	400-470MHz
	Channel Capacity	16		
	Channel Spacing	25KHz/12.5KHz		
	Operating Voltage	3.8V DC		
	Battery	1700mAh(Li-ion)		
	Battery Life (5-5-90 duty cycle)	12 hours		
	Operating Temperature	-20°C~+55°C		
	Dimensions (H*W*D) (with battery, without antenna)	100mm x48mm x27mm		
	Weight (with antenna & battery)	135g		
	Frequency Stability	± 2.5ppm		
Receiver	Sensitivity	≤0.25/0.28iV		
	Selectivity	60/55dB		
	Intermodulation	55dB		
	Spurious Response Rejection	60dB		
	Rated Audio Power Output	0.4W (Speaker impedance: 8 ohms)		
Transmitter	Rated Audio Distortion	≤5% (0.4W)		
	RF Power Output	2W/0.5W		
	Spurious and Harmonics	≤ -27dBm		
	Modulation Limiting	≤5/2.5KHz		
	FM Noise	≥38/34dB		
	Modulation Distortion	≤5%		

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Li-ion Battery (1700mAh) BL1715, Switching Power PS0601, Belt Clip BC16, Strap RO01

Optional Accessories

<p>CH05L01</p> <p>Rapid-rate Charger (for Li-ion Battery)</p>	<p>PS7002</p> <p>Six-unit Switching Power</p>	<p>PV1001</p> <p>Vehicle Power Adapter</p>
<p>EHS12</p> <p>Earset with in-line MIC</p>	<p>Wrist Strap works with Remote Ring PTT Switch</p>	<p>PCN003</p> <p>PU Carrying Case (non-swivel) (black)</p>

Note: Pictures above are for reference only and may vary from actual products.

Commercial

TC-508 Portable Radio

An affordable and reliable two-way radio for business and industry, TC-508 can largely enhance your productivity and management efficiency. The compact and ergonomic design of TC-508 greatly facilitates operation. Compliant with MIL-STD 810 standards and passing of 5-year ALT test, it ensures excellent performance even under harsh environments. As one of the market-leading products in commercial radios, TC-508 is an ideal choice for hospitality, manufacturing, retail, education and construction.



TC-508

Highlights »

Compact & Tough Design

Compact but exceptionally tough body allows it to be carried easily and work well even under harsh environments.

Rugged & Reliable

Compliant with MIL-STD 810 standards and passing of 5-year ALT test, TC-508 is built to withstand hard knocks, drops and extremely harsh environments.

Long Battery Life

Equipped with a 1650mAh battery that enables it to work for up to 14 hours (on a 5-5-90 basis).

Enhanced Audio Quality

TC-508 employs advanced voice technologies to better the audio quality during your communication.

Intelligent Charger

Provide both standard charger and multi-unit charger (supporting 6 terminals).

Small Size & Light Weight

The body of TC-508 is made of PC1414 housing materials from GE. It weights only 270g with a dimension of 113cm × 54cm × 35cm.

Features »

Voice Operated Transmit (VOX)

Enjoy hands-free operation when used with optional accessories.

Monitor

Pressing MONI key, the activity in current channel can be monitored, which is especially useful when receiving weak signal.

CTCSS/CDCSS & Squelch Tail Elimination

38 groups standard CTCSS and 83 groups standard CDCSS are available. If your radio is set with CTCSS or CDCSS, both the interference from the same frequency and the squelch tail from communication termination or carrier disappearance will be eliminated.

Wired Clone

Easily copy the configuration of one radio to another through the clone cable, requiring no PC programming operation.

Busy Channel Lockout (BCL)

BCL can prevent radio from receiving any unconfirmed signal and transmitting signal to any busy channel, keeping the channel clean and free of interference.

High/Low Power Switch

Allow the radio to switch to low power by simply pressing one button pre-set as High/Low Power Switchable 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 saves battery.

Low Battery Alert

Alert you to recharge the battery when it runs low.

Battery Save

The Battery Save function is automatically activated once no activity on the channel and no operation performed.

Channel Scan

Enable the radio to continuously scan each channel in the scan list for activity by simply pressing the side function button to activate scanning. When activity is detected on a channel, the scan process will stop and you will hear the transmission.

PC Programmable

Enable you to program the radio's frequency and other function settings without disassembling it.

Battery Strength Indicator

Just through a key-press, you can know the current battery strength from the color of LED indicator, which accordingly throws away your trouble on the specific charging time.

Time-out Timer (TOT)

Limit the amount of time of each transmission for more efficient use of channels.

Applications »

Hospitality, Manufacturing, Retail, Education, Construction.



Specifications »

General	Frequency Range	UHF: 400-420MHz	450-470MHz	400-470MHz	VHF: 146-174MHz
	Channel Capacity	16			
	Channel Spacing	25KHz/12.5KHz			
	Operating Voltage	7.4V			
	Battery	1650mAh (Li-ion Battery)			
	Battery Life (5-5-90 Duty Cycle)	14 hours			
	Frequency Stability	±2.5ppm			
	Operating Temperature	-25°C ~ +65°C			
	Antenna Impedance	50 Ω			
	Dimensions (H*W*D) (with battery, without antenna)	113x 54x35mm			
	Weight (with antenna & battery)	280g			
	Receiver	Air-tightness	IP54		
Shock & Vibration		Compliant with MIL-STD 810 C/D/E/F			
Dust & Humidity		Compliant with MIL-STD 810 C/D/E/F			
Sensitivity		≤0.251uV/0.282uV			
Adjacent Channel Selectivity		65dB/55dB			
Intermodulation		60dB			
Spurious Response Rejection		65dB			
S/N		45dB/40dB			
Rated Audio Power Output		0.5W(Speaker impedance: 16 Ohm)			
Rated Audio Distortion		≤5%(0.5W)			
Transmitter	Conducted Spurious Emission	-57dBm (< 1GHz)		-47dBm (> 1GHz)	
	Power Output	VHF:5W/2W		UHF:4W/2W	
	Modulation	16K ΦF3E/11K ΦF3E			
	Spurious and Harmonics	≤ -26dBm			
	FM Noise	40dB/35dB			
	Audio Distortion	≤5%			
	Modulation Limiting	≤5KHz (25KHz)		≤2.5KHz (12.5KHz)	
	Audio Response	≤ +1 ~ -3dB(6dB/oct pre-emphasized, 300-3000Hz)			

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Li-ion Battery BL1719, Rapid-rate Charger (for Li-ion Battery) CH10L19, Switching Power PS1018, Belt Clip BC12, Strap RO03

Optional Accessories

<p>BL1301</p> <p>Li-ion Battery (1300mAh)</p>	<p>PS7002</p> <p>Six-unit Switching Power</p>	<p>CHV09</p> <p>Vehicle Power Adapter</p>	<p>SM08M3</p> <p>Remote Speaker</p>
<p>ESM12</p> <p>Earbud with on-MIC PTT & VOX</p>	<p>EHM16</p> <p>D-earset with Boom MIC & VOX</p>	<p>ESS08</p> <p>Receive-only Earpiece with Transparent Acoustic Tube</p>	<p>NCN001</p> <p>Nylon Carrying Case</p>

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Commercial

TC-518 Portable Radio

TC-518 highlights small size, wide band coverage, stable output power and clear audio quality, which perfectly meets the most practical needs required by commercial application. Besides, the structure design with channel selector, Power Switch, PTT button and volume knob creatively located, provides a convenient and flexible using experience to the customers.



TC-518

Highlights »

Wide-band Coverage

Wide-band coverage enables TC-518 to be compatible with another radio working within a relatively narrow frequency band. Thus the spending on another radio is saved.

User-friendly Volume Adjustment

The volume is divided into several levels and each level is vocally marked, enabling the users to choose a suitable volume level in accordance with the environment.

Single-hand Operation

Usually a radio is operated with two hands. But now it is a thing of the past. With PTT button and volume knob combined, you can handle the radio with a single-hand, making the other hand always available to do other things while speaking and listening.

Power-off by Software

Power-off by software technology is first applied in two-way radios. It is much more durable, and can serve a longer time than the traditional mechanical switch.

Features »

Channel Scan

Enable the radio to continuously scan each channel in the scan list for activity by simply pressing the side function button to activate scanning. When activity is detected on a channel, the scan process will stop and you will hear the transmission.

Battery Save

The Battery Save function is automatically activated once no activity on the channel and no operation performed.

Time-out Timer (TOT)

This function allows for more efficient use of channels by limiting the amount of time of each transmission.

PC Programmable

Enable you to program the radio's frequency and other function settings without disassembling it.

Voice Operated Transmit (VOX)

Enjoy hands-free operation when used with optional accessories.

Busy Channel Lockout (BCL)

BCL can prevent radio from receiving any unconfirmed signal and transmitting signal to any busy channel, keeping the channel clean and free of interference.

High/low Power Switchable

Allow the radio to switch to low power by simply pressing one button pre-set as High/Low Power Switchable 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 saves battery.

CTCSS/CDCSS and Squelch Tail Elimination

38 groups standard CTCSS and 83 groups standard CDCSS are available. If your radio is set with CTCSS or CDCSS, both the interference from the same frequency and the squelch tail from communication termination or carrier disappearance will be eliminated.

Selectable Squelch Level (0-9)

Minimize interference from undesired weak signals and help weak signals be heard.

Voice Compressor

With advanced audio compressor technology, TC-518 ensures superior audio quality even in noisy environments.

Wired Clone

Easily copy the configuration of one radio to another through the clone cable, requiring no PC programming operation.

Low Battery Alert

Alert you to recharge the battery when it runs low.

Monitor

Pressing MONI key, the activity in current channel can be monitored, which is especially useful when receiving weak signal.

Programmable 25KHz/12.5KHz Channel Spacing

For future adaptability, you can program the TC-518 channel spacing as 25KHz or 12.5KHz through programming software, no need to buy a new radio.

Applications »

Hotel, Restaurant, Property Management,
Supermarket, Logistics, Shopping Mall



Specifications »

General	Frequency Range	VHF: 136-174MHz	UHF: 350-390MHz 400-470MHz 450-520MHz
	Channel Capacity	16	
	Channel Spacing	25KHz/12.5KHz	
	Operating Voltage	7.4V	
	Battery	1300mAh Li-Ion	
	Battery Life (5-5-90 Duty Cycle)	About 9 hours About 14 hours	
	1300mAh Li-Ion Battery 2000mAh Li-Ion Battery		
	Frequency Stability	± 2.5ppm	
	Operating Temperature	-25°C - +65°C	
	Antenna Impedance	50 Ω	
Receiver	Dimensions (H*W*D) (with battery, without antenna)	110x52x28mm	
	Weight (with antenna & battery)	240g	
	Sensitivity	≤ 0.25uV/0.28uV	
	Selectivity	≥ 70dB/55dB	
	Intermodulation	≥ 60dB	
	Spurious Response Rejection	≥ 70dB	
	S/N	≥ 40/34dB	
Transmitter	Rated Audio Power Output	0.5W	
	Rated Audio Distortion	≤ 5%	
	RF Power Output	VHF: 5W/2W	UHF: 4W/2W
	Modulation	F3E	
	Spurious and Harmonics	-36dBm (<1GHz)	-30dBm (>1GHz)
	FM Noise	40dB/34dB	
Audio Distortion	≤ 5%		

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Li-ion Battery (1300mAh) BL1301, Rapid-rate Charger (for Li-Ion Battery) CH10L12, Switching Power (different P/N for different countries and areas), Belt Clip BC12, Strap RO03

Optional Accessories



Note: Pictures above are for reference only and may vary from actual products.

Commercial

TC-580

Portable Radio

As a combination of efficiency and productivity, TC-580 is definitely the best choice for commercial and industry users. With innovative LCD design, numeric keypad, wide-band coverage, 256 channels, manual programming and versatile calls, TC-580 integrates cutting-edge analog technologies and is capable of fulfilling any demand on conventional communication. With customers demands in mind, TC-580 delivers you more flexibility in communication.



TC-580

Highlights »

Emergency Alarm

When encountering an emergency, press the emergency key of TC-580, then the emergency alarm will be activated, and an emergency signal will be sent to the control center automatically.

Display Reverse

TC-580 supports a 180-degree reverse of the displayed contents, allowing you to read the information on LCD display easily without removing the radio from its holder.

Powerful Front Panel Programming

Large front panel buttons facilitate programming of parameters and functions without the need for additional equipment.

Select Call & Caller Identification

With the signaling of DTMF, versatile call functions are available, such as caller ID identification and select call.

256 Channels & 32 Zones

This channel capacity makes the radio suitable for large radio system applications or systems. When large numbers of channels are being used, they can be grouped into smaller blocks for easier navigation and segregation.

Features »

Battery Strength Indicator

Just with a key-press, you can know the current battery strength from the color of LED indicator, which accordingly throws away your trouble on the specific charging time.

Low Battery Alert

Alert you to recharge the battery when it runs low.

Busy Channel Lockout (BCL)

BCL can prevent radio from receiving any unconfirmed signal and transmitting signal to any busy channel, keeping the channel clean and free of interference.

CTCSS/CDCSS & Squelch Tail Elimination

38 groups standard CTCSS and 83 groups standard CDCSS are available. If your radio is set with CTCSS or CDCSS, both the interference from the same frequency and the squelch tail from communication termination or carrier disappearance will be eliminated.

Whisper

With this function, even the quietest message can be transmitted and heard clearly.

Voice Compandor

With advanced audio compandor technology, TC-580 ensures superior audio quality even in noisy environments.

Time-out Timer (TOT)

This function allows more efficient use of channels by limiting the amount of time of each transmission.

High/Low Power Switchable

Allow the radio to switch to low power by simply pressing one button pre-set as High/Low Power Switchable 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 saves battery.

Scrambler

This function is used for audio encryption, which can greatly enhance communication confidentiality and prevent radios without this function from intercepting the conversation.

Channel Scan

Enable the radio to continuously scan each channel in the scan list for activity by simply pressing the side function button to activate scanning. When activity is detected on a channel, the scan process will stop and you will hear the transmission.

PC Programmable

Enable you to program the radio's frequency and other function settings without disassembling it.

Wired Clone

Easily copy the configuration of one radio to another through the clone cable, requiring no PC programming operation.

Voice Operated Transmit (VOX)

Enjoy hands-free operation when used with optional accessories.

Applications »

Light industry, Retail, Hospitality, Construction, Transportation.



Specifications »

General	Frequency Range	VHF: 136-174MHz	VHF: 350-390MHz	VHF: 400-470MHz
	Channel Capacity	256		
	Channel Spacing	25/12.5 KHz		
	Operating Voltage	7.4V DC		
	Battery	Standard battery: 1650mAh (Li-Ion Battery)		
	Battery Life (5-5-90 duty cycle)	12 hours above		
	Operating Temperature	-25°C ~ +65°C		
	Dimensions (H*W*D) (with battery, without antenna)	117mm × 53mm × 36mm		
	Weight (with antenna & battery)	287g		
	Frequency Stability	± 2.5ppm		
	Antenna Impedance	50 Ω		
	Receiver	Sensitivity	≤ 0.25/0.28 μ V	
Selectivity		70/50dB		
Intermodulation		60dB		
Spurious Response Rejection		70dB		
S/N		40/35dB		
Rated Audio Power Output		1W		
Transmitter	Rated Audio Distortion	≤ 5%		
	RF Power Output	VHF: 5W/1W	UHF: 4W/1W	
	Spurious and Harmonics	-36dBm (< 1GHz)	-30dBm (> 1GHz)	
	Modulation	16K Φ F3E/8K Φ F3E		
	FM Noise	≥ 40/35dB		
	Audio Distortion	≤ 5%		

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Li-ion Battery BL1719, Rapid-rate Charger (for Li-ion Battery) CH10L19, Power Adapter PS1018, Belt Clip BC12, Strap RO03

Optional Accessories

 <p>Antenna</p>	 <p>BL1301 Li-ion Battery (1300mAh)</p>	 <p>PS7002 Six-unit Switching Power</p>	 <p>CHV09 Vehicle Power Adapter</p>
 <p>ESM12 Earbud with on-MIC PTT & VOX</p>	 <p>ESS07 Receive-only Earbud</p>	 <p>EHM15 D-earset with in-line PTT & microphone & VOX</p>	 <p>SM08M3 Remote Speaker</p>

Note: Pictures above are for reference only and may vary from actual products.

Commercial

TC-610

Portable Radio

Harsh, noisy and dusty working conditions in mega-project and construction site may lower your efficiency and productivity by smudging the radio or shadowing the talk. Strengthened by superior dust & water proof performance, TC-610 portable radio is the option customized for users in these industries.



TC-610

Highlights »

IP66 Dust/Water Proof Compliance

In harsh, noisy and dusty working conditions such as construction sites, your radio is apt to be smudged. TC-610 brings you reliable communication and high productivity in these working conditions with IP66 dust/water proof compliance. Its superb waterproof performance allows you to wash off mud and dust on your radio.

Double Injection Molding

TC-610 employs double injection molding, a technique with high coefficient difficulty. Owing to this technique, TC-610 is comfortable to handle with high drop-proof performance.

LED Battery Gauge

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

Powerful Audio & Wide Communication Range

Superior audio quality is the premise for your team to work efficiently in noisy environments. The powerful 45mm speaker (36mm speaker for common radios) of TC-610 ensures clear and crisp audio even in noisy environments. You can also use the high transmit power (5W for UHF frequency band) for wide communication coverage.

Innovative Structure Design

Battery latch is to become loose after long time use, and even occasionally causes your radio to shut off automatically. The patented battery latch structure of TC-610 delivers secure connection between the battery and the radio, no matter how long time the radio has been in use.

Features »

High/Low Power Switchable

Allow the radio to switch to low power by simply pressing one button pre-set as High/Low Power Switchable 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 saves battery.

Battery Save

The Battery Save function is automatically activated once no activity on the channel and no operation performed.

Selectable Squelch Level (1-9)

Minimize interference from undesired weak signals and help weak signals be heard.

PC Programmable

Enable you to program the radio's frequency and other function settings without disassembling it.

CTCSS/CDCSS

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

Programmable 12.5KHz/25KHz Channel Spacing

For future adaptability, you can program the TC-610 channel spacing as 25KHz or 12.5KHz through programming software, no need to buy a new radio.

Low Battery Alert

Alert you to recharge the battery when it runs low.

Channel Scan

Enable the radio to continuously scan each channel in the scan list for activity by simply pressing the side function button to activate scanning. When activity is detected on a channel, the scan process will stop and you will hear the transmission.

Monitor

Pressing MONI key, the activity in current channel can be monitored, which is especially useful when receiving weak signal.

Time-out Timer (TOT)

This function allows more efficient use of channels by limiting the amount of time of each transmission.

Voice Operated Transmit (VOX)

Enjoy hands-free operation when used with optional accessories.

Wired Clone

Easily copy the configuration of one radio to another through the clone cable, requiring no PC programming operation.

Busy Channel Lockout (BCL)

BCL can prevent radio from receiving any unconfirmed signal and transmitting signal to any busy channel, keeping the channel clean and free of interference.

Applications »

Construction, Manufacturing, Ports, Hospitality,
Property management, Warehousing.



Specifications »

General	Frequency Range	136-174MHz	350-390MHz	400-420MHz	440-470MHz	450-470MHz
	Channel Capacity	16				
	Channel Spacing	25/12.5KHz				
	Operating Voltage	7.4V				
	Standard Battery	1200mAh (Li-ion)				
	Battery Life (5-5-90 duty cycle) 1200mAh Li-ion battery 1300mAh Ni-MH battery (optional) 2000mAh Li-ion battery (optional)	More than 9 hours More than 9 hours More than 14 hours				
	Dimensions (H*W*D) (with battery, without antenna)	119mm × 55mm × 33mm				
	Weight (with antenna & battery)	270g				
	Frequency Stability ±	± 2.5ppm				
	Operating Temperature	-20°C ~ +55°C				
Receiver	Antenna Impedance	50 Ω				
	Sensitivity	0.25/0.28 μV				
	Selectivity	70/60dB				
	Intermodulation	≥ 60dB				
	Spurious Response Rejection	≥ 70dB				
	S/N	45/40dB				
Transmitter	Rated Audio Power Output	800mW				
	Rated Audio Distortion	≤ 5%				
	RF Power Output	5W/2W (VHF)		5W/2W (UHF)		
	Spurious and Harmonics	F3E				
	Modulation	-36dBm (<1GHz)		-30dBm (>1GHz)		
	FM Noise	40/35dB				
	Audio Distortion	≤ 5%				

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Li-ion Battery (1200mAh) BL1204, MCU Charger CH10A03, Switching Power PS1018, Belt Clip BC12, Strap RO03

Optional Accessories

<p>BL2001</p> <p>Li-ion Battery (2000mAh)</p>	<p>MCA02</p> <p>Charger for Li-ion/Ni-MH MCU Rapid-rate Multi-unit</p>	<p>PS7002</p> <p>Six-unit Switching Power</p>	<p>CHV09</p> <p>Vehicle Power Adapter</p>
<p>EHM16</p> <p>D-earset with Boom Microphone & in-line PTT & VOX</p>	<p>EBM01</p> <p>Ear Canal Bone Induction Earpiece</p>	<p>ECM12</p> <p>Lightweight Single-muff Headset with in-line PTT & VOX</p>	<p>ECN09</p> <p>Behind-the-head, Noise-canceling Headset</p>

Note: Pictures above are for reference only and may vary from actual products.

Commercial

TC-610P

Portable Radio

With pin-touched connection interface, TC-610P is IP66 dust-tight and protected against powerful water jets. Harsh, noisy and dusty working conditions in mega-project and construction site may lower your efficiency and productivity by smudging the radio or shadowing the talk. Strengthened by rugged design and IP66 dust & water proof compliance, TC-610P portable radio is the option customized for users in these industries.



TC-610P

Highlights »

IP66 Dust & Water Proof Compliance

In harsh, noisy and dusty working conditions such as construction sites, your radio is apt to be damaged. TC-610P brings you reliable communication and high productivity in these working conditions with IP66 dust/water proof compliance. Its superior waterproof performance allows you to wash off mud and dust on your radio.

Double Injection Molding

TC-610P employs double injection molding, a technique with high coefficient difficulty. Owing to this technique, TC-610P is comfortable to handle with high drop-proof performance.

Powerful Audio & Wide Communication Range

Superior audio quality is the premise for your team to work efficiently in noisy environments. The powerful 45mm speaker (36mm speaker for common radios) of TC-610P ensures clear and crisp audio even in noisy environments. You can also use the high transmit power (5W for UHF frequency band) for wide communication coverage.

LED Battery Gauge

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

Innovative Structure Design

Battery latch is to become loose after long time use, and even occasionally causes your radio to shut off automatically. The patented battery latch structure of TC-610P delivers secure connection between the battery and the radio, no matter how long time the radio has been in use.

Features »

High/Low Power Switchable

Allow the radio to switch to low power by simply pressing one button 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 saves battery.

Monitor

Pressing MONI key, the activity in current channel can be monitored, which is especially useful when receiving weak signal.

Time-out Timer (TOT)

This function allows more efficient use of channels by limiting the amount of time of each transmission.

Data Operated Squelch (DOS)

Help eliminate noise that occurs at the receiver when decoding the signaling of HDC1200 PTT ID or ATIS.

Wired Clone

Easily copy the configuration of one radio to another through the clone cable, requiring no PC programming operation.

Selectable Squelch Level (1-9)

Minimize interference from undesired weak signals and help weak signals be heard.

Voice Operated Transmit (VOX)

Enjoy hands-free operation when used with optional accessories.

Programmable 12.5KHz/25KHz Channel Spacing

For future adaptability, you can program the TC-610P channel spacing as 25KHz or 12.5KHz through programming software, no need to buy a new radio.

Low Battery Alert

Alert you to recharge the battery when it runs low.

Channel Scan

Enable the radio to continuously scan each channel in the scan list for activity by simply pressing the side function button to activate scanning. When activity is detected on a channel, the scan process will stop and you will hear the transmission.

Battery Save

The Battery Save function is automatically activated once no activity on the channel and no operation performed.

2-Tone Decode (optional)

Allow you to receive Select Call, Alert Call, and Voice-alert Call.

PC Programmable

Enable you to program the radio's frequency and other function settings without disassembling it.

CTCSS/CDCSS

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

TX Admit

Prevent users from "talking over" by restricting the user from transmitting if activity is detected on the channel.

HDC1200 PTT ID (optional)

Enable the transmission of caller ID and allow user to identify incoming callers.

ATIS

ATIS is an automatic identification device compliant to special technology regulations in HDC1200 encode. This function can be enabled by your dealer for specific areas.

Applications »

Construction, Warehousing, Hospitality, Ports, Property management.



Specifications »

General	Frequency Range	136-174MHz	350-390MHz	440-470MHz	450-470MHz
	Channel Capacity	16			
	Channel Spacing	25/12.5KHz			
	Operating Voltage	7.4V			
	Battery Life (5-5-90 duty cycle) 1200mAh Li-ion battery 1300mAh Ni-MH battery (optional) 2000mAh Li-ion battery (optional)	More than 9 hours More than 9 hours More than 14 hours			
	Standard Battery	1200mAh (Li-ion)			
	Operating Temperature	-20°C ~ +55°C			
	Dimensions (H*W*D) (with battery, without antenna)	119mm × 55mm × 33mm			
	Weight (with antenna & battery)	275g			
	Frequency Stability ±	±2.5ppm			
Receiver	Antenna Impedance	50 Ω			
	Sensitivity	0.25/0.28 μ V			
	Selectivity	≥70/60dB			
	Intermodulation	≥65dB			
	Spurious Response Rejection	≥70dB			
	S/N	45/40dB			
	Rated Audio Power Output	800mW			
Transmitter	Rated Audio Distortion	≤5%			
	RF Power Output	5W/2W (VHF)		5W/2W (UHF)	
	Spurious and Harmonics	-36dBm (<1GHz)		-30dBm (>1GHz)	
	Modulation	16K Φ F3E/8K Φ F3E			
	FM Noise	40/35dB			
	Audio Distortion	≤5%			

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard accessories

Antenna, Li-ion Battery (1200mAh) BL1204, MCU Charger CH10A03, Switching Power PS1018, Belt Clip BC12, Strap RO03

Optional Accessories

<p>BL2001</p> <p>Li-ion Battery (2000mAh)</p>	<p>MCA02</p> <p>Charger for Li-ion/Ni-MH MCU Rapid-rate Multi-unit</p>	<p>PS7002</p> <p>Six-unit Switching Power</p>	<p>CHV09</p> <p>Vehicle Power Adapter</p>
<p>ESN06</p> <p>Earbud with on-MIC PTT</p>	<p>SM13N5</p> <p>Noise-canceling Remote Speaker Microphone (IP56)</p>	<p>SM08N1</p> <p>Remote Speaker Microphone</p>	<p>ECN09</p> <p>Behind-the-head, Noise-canceling Headset</p>

Note: Pictures above are for reference only and may vary from actual products.

Professional

TC-700

Portable Radio

Ideal for high-level professionals who want powerful yet streamlined communication tools, TC-700 is distinguished by cutting-edge technology and innovations. Voice compander and the powerful 1W speaker of TC-700 ensure clear and crisp sound even in noisy environments. Its compact and ergonomic design makes TC-700 easy to hold and carry, and it's so lightweight that you can take it virtually anywhere.



TC-700

Highlights »

Wide-band Coverage

Allow you to select specific frequency for use in their respective work environment.

Powerful Audio Output

Voice compander and the powerful 40mm 1W speaker ensure clear and crisp sound even in noisy environments.

Safety Assurance

Personnel safety is critical for modern organizations. Equipped by Lone Worker, Man Down (optional) and Emergency Siren functions, TC-700 is designed to assure the safety of your staff in case of emergencies or accidents.

HDC2400™ & HDC1200 Signaling

The HDC2400™ signaling is a proprietary signaling of Hytera, and contributes to the system with functions including ANI (Automatic Number Identification), Call Timer, Record, Record Inquiry, Short Message, Select Alarm, Data Transmission, Auto contact, Select Alarm, Individual Call, Group Call, Broadcast, Status Inquiry, Safety Check, Stun/Kill/Revive, etc.

Compatible with MDC1200, the HDC1200 signaling allows functions including PTT ID Encode & Decode, Emergency Encode, Radio Check Encode & Decode, Kill & Revive Decode, Individual Call, Group Call, Broadcast, Status Message Encode, and Fixed Message Encode, etc.

Features »

Built-in Scrambler

Communication confidentiality is increasingly important with potentially sensitive information flowing back and forth. The built-in scrambler of TC-700 provides enhanced confidentiality for your communication.

Emergency Alarm

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

Man down (optional)

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

Power on Self-test

The radio itself will check the radio status automatically when power-on, and emit corresponding alert if an error occurs (e.g. CPU error or EEPROM error), allowing you to detect unit faults early.

Whisper

With this function, even the quietest message can be transmitted and heard clearly.

Safety Check

TC-700 will sound an alert tone when it receives safety check signal from the control center or another radio. In this case, you need to press a key to stop the alert tone to indicate that you are safe. Otherwise, your radio will alarm automatically.

2-Tone/5-Tone Encode & Decode

The signaling system of TC-700 is radio dependent. 5-Tone models and 2-Tone models are available.

Auto Contact

The function is especially helpful in high-demanding communication environments, such as climbing, exploration, and rescue work. Once the function is enabled, the radio will beep when the user is moving out of communication range.

Channel Announcement

Enable the radio to report the current channel number when power-on or switching channel, offering you notable convenience.

Embedded Message & Serial Number

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

Lone Worker

Provide added security and safety for individuals who work remotely from their team. Automatic alarm will be activated when a user fails to respond to a regular warning tone.

Rental

Limit the time period that a radio can be rented. The radio will be disabled once the time is out.

PC Tuning

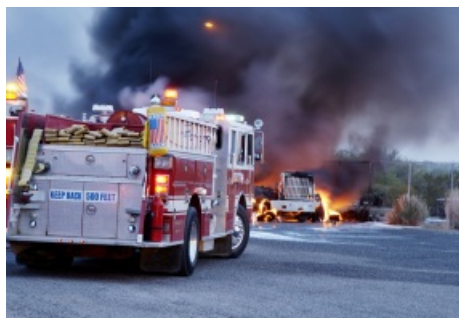
Enable remarkable ease of maintenance.

Software Upgradeable (optional)

Allow new functions to be added in for future update.

Applications »

Public security, Firefighting, Public utility, Construction, Property management, Hospitality.



Specifications »

General	Frequency Range	136-174 MHz	350-390 MHz	400-470MHz	420-470 MHz	440-490 MHz
	Channel Capacity	16				
	Channel Spacing	25/20/12.5KHz				
	Operating Voltage	7.4 V DC				
	Battery	1700mAh(Li-ion)				
	Battery Life (5-5-90 duty cycle)	About 14hours				
	Operating Temperature	-30°C ~ +60°C				
	Antenna Impedance	50 Ω				
	Dimensions (H*W*D) (with battery, without antenna)	122 × 55 × 35mm				
	Weight (with antenna & battery)	316g				
Receiver	Frequency Stability ±	± 2.5 ppm				
	Sensitivity	0.25/0.35 μ V				
	Selectivity	70/60dB				
	Intermodulation	65dB				
	Spurious Response Rejection	70dB				
	S/N	45/40dB				
	Rated Audio	0.5W				
Transmitter	Rated Audio Distortion	≤ 5%				
	RF Power Output	5W/2W/1W (VHF)		4W/2W/1W (UHF)		
	Spurious and Harmonics	-36dBm (<1GHz)		-30dBm (>1GHz)		
	Modulation	16K Φ F3E/11K Φ F3E				
	FM Noise	45/40dB				
	Audio Distortion	≤ 3%				

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Li-ion Battery (1700mAh) BL1703, MCU Rapid-rate Charger CH10L07, Switching Power PS1018, Belt Clip BC08, Strap RO04

Optional Accessories

<p>BL2102</p> <p>Li-ion Battery (2100mAh)</p>	<p>MCA03</p> <p>MCU Rapid-rate Multi-unit Charger for Li-ion/Ni-MH Batteries</p>	<p>PS7002</p> <p>Six-unit Switching Power</p>	<p>CHV09</p> <p>Vehicle Power Adapter</p>
<p>SM13M1/SM13M2</p> <p>Water Resistant Remote/Noise-cancelling Remote Speaker Microphone (IP56)/Speaker Microphone (350-390MHz)</p>	<p>SM08M3</p> <p>Remote Speaker Microphone</p>	<p>ECM12</p> <p>Light Weight, Single-muff Headset with in-line PTT & VOX</p>	
<p>ESS07</p> <p>Receive-only Earbud (for use with Remote Speaker Microphone)</p>	<p>ESS08</p> <p>Receive-only Earpiece with Remote Speaker Microphone</p>	<p>ESM11</p> <p>Earbud with in-line PTT & VOX</p>	<p>EWM03</p> <p>2-wire Earpiece with Wireless Earphone and Neck Loop</p>

Note: Pictures above are for reference only and may vary from actual products.

Professional

TC-700P Portable Radio

Incorporating advanced audio processing and anti-interference technologies, TC-700P enables you to enjoy remarkable communications even in noisy and strong EMI environments. What impresses it more is its multi-level safety mechanism, providing enhanced security solution for mission critical applications.



TC-700P

Highlights »

Wide Band Coverage

TC-700P supports two frequency bands: 136MHz~174MHz and 400MHz~470MHz.

Safety Assurance

Personnel safety is critical for modern organizations. Equipped by Lone worker, Man Down (optional) and Emergency Siren functions, TC-700P is designed to assure the safety of your staff in case of emergencies or accidents.

High Output Power

Up to 5W output power accommodates long distance communication.

Powerful Audio Output

The powerful 40mm 1.5W speaker ensures clear and crisp sound even in noisy environments.

Phone/5-tone/HDC2400™ Signaling

Phone Signaling allows access to the public communication network. You can use it to make phone calls to one another.

5-tone Signaling is a widely used signaling that uses audio signal as the media. It can help realize functions such as Individual Call, Group Call, Kill/Revive, Secrete Alarm, Authorize, Call Forward, etc.

The HDC2400™ signaling is a proprietary signaling of Hytera, and contributes to the system with functions including ANI (Automatic Number Identification), Call Timer, Record, Record Inquiry, Short Message, Select Alarm, Data Transmission, Auto contact, Select Alarm, Individual Call, Group Call, Broadcast, Status Inquiry, Safety Check, Stun/Kill/Revive, etc.

Software Upgradeable

With this feature, you can enjoy more powerful functions without buying new equipment.

Features »

Whisper

With this function, even the quietest message can be transmitted and heard clearly.

Scan

TC-700P supports two scan types: Normal Scan and Vote Scan. Normal Scan allows you to listen to communication activities on other channels, while Vote Scan helps you select the closest base station to communicate.

Adjustable Squelch Level

With this feature, you can adjust the squelch threshold required for the radio to unmute.

Lone Worker

Provide added security and safety for individuals who work remotely from their team. Automatic alarm will be activated when a user fails to respond to a regular warning tone.

Auto Contact

The function is especially helpful in high-demanding communication environments, such as climbing, exploration, and rescue work. Once the function is enabled, the radio will beep when the user is moving out of communication range.

2-Tone/5-Tone Encode & Decode

The signaling system of TC-700P is radio dependent. 5-Tone models and 2-Tone models are available.

Battery Strength Indicator

TC-700P can sound different numbers to indicate the current battery strength.

Safety Check

TC-700P will sound an alert tone when it receives safety check signal from the control center or another radio. In this case, you need to press a key to stop the alert tone to indicate that you are safe. Otherwise, your radio will alarm automatically.

Vibration

TC-700P supports a vibration option, which helps in working conditions where quiet operation is required.

Man Down (optional)

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

Channel Announcement

Enable the radio to report the current channel number when power-on or switching channel, offering you notable convenience.

Applications »

Public security, Firefighting, Transportation, Construction, Forestry.



Specifications »

General	Frequency Range	136-174MHz	400-470MHz
	Channel Capacity	16	
	Channel Spacing	25 KHz/20KHz/12.5KHz	
	Operating Voltage	7.4V DC	
	Battery	1700mAh (Li-ion Battery)	
	Battery Life (5-5-90 duty cycle)	About 12 hours	
	Operating Temperature	-25 °C ~ +60 °C	
	Antenna Impedance	50 Ω	
	Dimensions (H*W*D) (with battery, without antenna)	124 × 54 × 35mm	
	Weight (with antenna & battery)	330g	
Receiver	Frequency Stability ±	± 2.5ppm	
	Sensitivity	≤ 0.25/0.28 μ V	
	Adjacent Channel Selectivity	70/60dB	
	Intermodulation	65dB	
	Spurious Response Rejection	70dB	
	S/N	45/40dB	
Transmitter	Rated Audio	0.8W	
	Rated Audio Distortion	≤ 5%	
	RF Power Output	5W/2W/1W	
	Spurious and Harmonics	-36dBm (<1GHz)	-30dBm (>1GHz)
	Modulation	16K Φ F3E/8K Φ F3E	
	FM Noise	≥ 45/40dB	
Audio Distortion	≤ 3%		









All specifications are subject to change without notice due to continuous development.

Accessories »

Standard accessories

Antenna, Li-ion Battery (1700mAh) BL1703, MCU Rapid-rate Charger CH10L07, Switching Power PS1018, Belt Clip BC08, Strap RO04

Optional Accessories

<p>BL2102/BH1801</p>  <p>Li-ion Battery (2100mAh) /Ni-MH battery (1800mAh)</p>	<p>MCA03</p>  <p>MCU Rapid-rate Multi-unit Charger for Li-ion/Ni-MH Batteries</p>	<p>PS7002</p>  <p>Six-unit Switching Power</p>	<p>CHV09</p>  <p>Vehicle Power Adapter</p>
<p>EAN02</p>  <p>3-wire Surveillance Earpiece with Transparent Acoustic Tube (black)</p>	<p>ESS07</p>  <p>Earbud (for use with remote speaker microphone)</p>	<p>EWM03</p>  <p>2-wire Earpiece with Wireless Earphone and Neck Loop</p>	<p>SM08N1</p>  <p>Remote Speaker Microphone</p>

Note: Pictures above are for reference only and may vary from actual products.

Professional

TC-700Ex Portable Radio

Intrinsically safe radio for use in potentially explosive environments with explosive gas or combustible dusts. ATEX-approved professional portable radio TC-700Ex PLUS ensures reliable communication in hazardous environments. Moreover, it gives team members instant access to one or many colleagues at the touch of a button with uncompromising safety, and allows constant contact should an emergency occur.



TC-700Ex

Highlights »

Intrinsically Safe Design

TC-700Ex PLUS adopts Encapsulation (Casting Compound) technology to prevent ignition of the surrounding explosive atmosphere.

Long Battery Life

The rechargeable 1700mAh Li-ion Ex-battery secures a battery life up to 10 hours, more than enough for a standard work shift.

Intrinsically Safe Accessories

The intrinsically safe TC-700Ex PLUS is supported by a range of ATEX-approved audio accessories, including remote speaker microphone and earpieces tailored to the requirements of different users.

Safety Assurance

TC-700Ex PLUS is designed to provide safety assurance with the highly visible Emergency Button, which will initiate the defined emergency communication procedure when pressed, and multiple safety functions such as Man Down, Lone Worker and Safety Check. Additional safety features also include innovative structure design that prevents the battery and radio unit from accidental separation, avoiding hazard results.

Enhanced Audio Quality

Voice compander delivers clear and crisp sound no matter what environment you are in, while the Whisper function ensures that even the quietest message can be transmitted and heard clearly.

HDC2400™ & HDC1200 Signaling

The HDC2400™ signaling is a proprietary signaling of Hytera, and contributes to the system with functions including ANI (Automatic Number Identification), Call Timer, Record, Record Inquiry, Short Message, Select Alarm, Data Transmission, Auto contact, Select Alarm, Individual Call, Group Call, Broadcast, Status Inquiry, Safety Check, Stun/Kill/Revive, etc.

Compatible with MDC1200, the HDC1200 signaling allows functions including PTT ID Encode & Decode, Emergency Encode, Radio Check Encode & Decode, Kill & Revive Decode, Individual Call, Group Call, Broadcast, Status Message Encode, and Fixed Message Encode, etc.

Features »

2-Tone/5-Tone Encode & Decode

The signaling system of TC-700 Ex PLUS is radio dependent. 5-Tone models and 2-Tone models are available.

Channel Announcement

Enable the radio to report the current channel number when power-on or switching channel, offering you notable convenience.

Embedded Message & Serial Number

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

Auto Contact

The function is especially helpful in high-demanding communication environments, such as climbing, exploration, and rescue work. Once the function is enabled, the radio will automatically emit alert tone when the user is moving out of communication range.

Built-in Scrambler

The built-in scrambler of TC-700 Ex PLUS provides enhanced confidentiality for your communication.

Battery Strength Indicator

Press the function key, and the radio will sound "1", "2", "3" or "4" to indicate the current battery level of very low, low, satisfactory or high respectively.

Stun/Kill & Revive

Provide enhanced security to prevent unauthorized use of lost or rental units by remote inhibition of either transmit or transmit/receive. A stunned radio will return to operation after receiving the revive code.

Power-on Self-test

The radio itself will check the radio status automatically when power-on, and emit corresponding alert if an error occurs (e.g. CPU error or EEPROM error), allowing you to detect unit faults clearly.

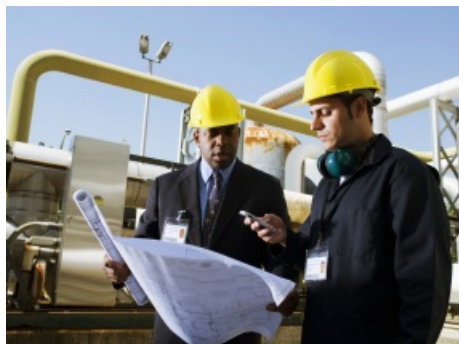
Certification »

ATEX-approved Intrinsically Safe ZELM 06 ATEX 0321

ATEX (Atmospheres Explosibles) Directive 94/9/EC introduced in 2003 is the European Union directive to which all two-way radios must conform if used in potentially explosive environments. It replaces the Cenelec classification in all European Union member states and EFTA countries. All Hytera professional series ATEX portable radios are approved to ATEX Protection Class II 2 G Ex ib IIB T3.

Applications »

Oil & Gas, Mining.



Specifications »

General	Frequency Range	ATEX:136-174MHz/420-470MHz	FM: 136-174/400-470/450-520/440-490 300-350/350-390MHz
	Channel Capacity	16	
	Channel Spacing	25/20/12.5 KHz	
	Operating Voltage	7.2V DC	
	Battery	1700mAh(Li-ion)	
	Battery Life (5-5-90 duty cycle)	About 14hours	
	Operating Temperature	-20°C - +50°C	
	Antenna Impedance	50 Ω	
	Dimensions (H*W*D) (with battery, without antenna)	122×55×38mm	
	Weight (with antenna & battery)	426g	
Receiver	Frequency Stability ±	± 2.5ppm	
	Sensitivity	0.25/0.35 μ V	
	Selectivity	70/60dB	
	Intermodulation	65dB	
	Spurious Response Rejection	70dB	
	S/N	45/40dB	
	Rated Audio	0.5W	
Transmitter	Rated Audio Distortion	≤5%	
	RF Power Output	≤3.5W (ATEX)	4/2/1W (FM)
	Spurious and Harmonics	-36dBm (<1GHz)	-30dBm (>1GHz)
	Modulation	16K Φ F3E/11K Φ F3E	
	FM Noise	45/40dB	
Audio Distortion	≤3%		

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Li-ion battery (1700mAh) BL1703-Ex, Rapid-rate charger for Li-ion battery CH10L11-Ex,

Switching power adapter (90-260V) PS1009 (for use with different power cords in different countries and areas), Belt clip BC09, Strap RO04

Optional Accessories

<p>MCL07-Ex</p>  <p>Multi-unit Rapid-rate Charger (for Li-ion battery)</p>	<p>SM08M1-Ex</p>  <p>Remote Speaker Microphone</p>	<p>PTT ESM01-Ex</p>  <p>Earbud with In-line PPT</p>	<p>ESS01</p>  <p>Receive-only Earpiece (for use with intrinsically safe remote speaker microphone)</p>
<p>EBM02-Ex</p>  <p>Bone Conduction Headset (fire rescue) (ATEX)</p>	<p>LCBN57</p>  <p>Leather Carrying Case (non-swivel)</p>		

Note: Pictures above are for reference only and may vary from actual products.

Professional

TC-780

Portable Radio (2-tone)

TC-780 is a medium-to-high tier portable radio developed with state-of-the-art analog technology and provides multiple functions. With LCD display, numeric keypad, wide band coverage, 256 channels, the radio satisfies users' demands for group dispatching and delivers powerful functions, uncompromising reliability and superior performance.



TC-780

Highlights »

Wide Band Coverage

Allow you to select specific frequency for use in their respective work environment.

HDC2400™ & HDC1200 Signaling

The HDC2400™ signaling is a proprietary signaling of Hytera, and contributes to the system with functions including ANI (Automatic Number Identification), Call Timer, Record, Record Inquiry, Short Message, Select Alarm, Data Transmission, Auto contact, Select Alarm, Individual Call, Group Call, Broadcast, Status Inquiry, Safety Check, Stun/Kill/Revive, etc. Compatible with MDC1200, the HDC1200 Signaling allows functions including PTT ID Encode & Decode, Emergency Encode, Radio Check Encode & Decode, Kill & Revive Decode, Individual Call, Group Call, Broadcast, Status Message Encode, and Fixed Message Encode, etc.

Future Development Expansion

Expansion ports are reserved for future development in TC-780.

Firmware Upgradeable

Considering future expansion, TC-780 utilizes built-in Flash MCU, from which you can upgrade the radio firmware to include the latest features.

Features »

Safety Check

TC-780 will sound an alert tone when it receives safety check signal from the control center or another radio. In this case, you need to press a key to stop the alert tone to indicate that you are safe. Otherwise, your radio will alarm automatically.

Embedded Message & Serial Number

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

Call List Check

There are four types of call list for check: Contact list, Status list, Missed call list and Received call list.

Call Forward

If decoding is succeeded, the radio will transmit a call signaling preset by your dealer.

High Channel Capacity

Maximum 256 channels allow you to assign user-recognizable channel name; flexible grouping (maximum 32 groups) can make team management more effective.

Lone Worker

Provide added security and safety for individuals who work remotely from their team. Automatic alarm will be activated when a user not respond to a regular warning tone.

Phone

Allow you to call a base station or connect with telephone line to call a telephone subscriber.

Battery Strength Indicator

LCD display let you know the current battery strength easily.

Applications »

Police, Public security, Firefighting Government.



Specifications »

General	Frequency Range	VHF: 136-174MHz	UHF: 350-390MHz	400-470MHz
	Channel Capacity	256		
	Channel Spacing	25 /20/12.5KHz		
	Operating Voltage	7.4 V		
	Battery	1700mAh (Li-ion)		
	Battery Life (5-5-90 duty cycle)	About 14 hours		
	Operating Temperature	-30°C~ +60°C		
	Antenna Impedance	50Ω		
	Dimensions (H*W*D) (with battery, without antenna)	124 × 54 × 34.5mm		
	Weight (with antenna & battery)	340g		
Receiver	Frequency Stability ±	±± 2.5ppm		
	Sensitivity	0.25/0.35 μ V		
	Selectivity	70/60dB		
	Intermodulation	65dB		
	Spurious Response Rejection	70dB		
	S/N	45/40dB		
Transmitter	Rated Audio	1W		
	Rated Audio Distortion	≤10%		
	RF Power Output	5W/2W/1W (UHF/VHF)		
	Spurious and Harmonics	-36dBm (<1GHz)	-30dBm (>1GHz)	
	Modulation	16K Φ F3E/11K Φ F3E		
	FM Noise	45/40dB		
	Audio Distortion	=5%		







All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Li-ion Battery (1700mAh) BL1703, MCU Rapid-rate Charger CH10L07, Switching Power PS1009, Belt Clip BC08, Strap RO04

Optional Accessories

<p>BH1801/BL2102</p>  <p>Ni-MH battery (1800mAh)/Li-ion battery (2100mAh)</p>	<p>MCA03</p>  <p>MCU Rapid-rate Multi-unit Charger for Li-ion/Ni-MH Batteries</p>	<p>SM13N5</p>  <p>Water Resistant Remote Speaker Microphone(IP56)</p>
<p>ESN05</p>  <p>Earbud with in-line PTT</p>	<p>ECN08</p>  <p>Heavy duty, Noise-cancelling Headset</p>	<p>LCBN13</p>  <p>Universal Chest Pack (nylon)(black)</p>

Note: Pictures above are for reference only and may vary from actual products.

Professional

TC-780

Portable Radio (5-tone)

TC-780, a medium-to-high tier portable radio with LCD, numeric keypad, wide-band coverage and 256 channels, integrates cutting-edge analog technologies and shall definitely fulfill your every demand on grouping and dispatching. Distinguished by powerful functions and reliable performance, TC-780 brings you the most cost-effective communications experience.



TC-780

Highlights »

Wide Band Coverage

Allow you to select specific frequency for use in their respective work environment.

5-tone & HDC2400™ Signaling

The system including 5-tone can achieve ANI (Automatic Number Identification), call timer, selectable call (individual call, group call), alert call, status inquiry, stun/revive, authorization, etc.

The HDC2400™ signaling is a proprietary signaling of Hytera, and contributes to the system with functions including ANI (Automatic Number Identification), Call Timer, Record, Record Inquiry, Short Message, Select Alarm, Data Transmission, Auto contact, Select Alarm, Individual Call, Group Call, Broadcast, Status Inquiry, Safety Check, Stun/Kill/Revive, etc.

Compatible with MDC1200, the HDC1200 signaling allows functions including PTT ID Encode & Decode, Emergency Encode, Radio Check Encode & Decode, Kill & Revive Decode, Individual Call, Group Call, Broadcast, Status Message Encode, and Fixed Message Encode, etc.

Future Development Expansion

Expansion ports are reserved for future development in TC-780.

Firmware Upgradeable

Considering future expansion, TC-780 utilizes built-in Flash MCU, from which you can upgrade the radio firmware to include the latest features.

Features »

High Channel Capacity

Maximum 256 channels allow you to assign user-recognizable channel name; flexible grouping (maximum 32 groups) can make team management more effective.

Call Forward

If decoding is succeeded, the radio will transmit a call signaling preset by your dealer.

Phone

Allow you to call a base station or connect with telephone line to call a telephone subscriber.

Safety Check

TC-780 will sound an alert tone when it receives safety check signal from the control center or another radio. In this case, you need to press a key to stop the alert tone to indicate that you are safe. Otherwise, your radio will alarm automatically.

Embedded Message & Serial Number

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

Call List Check

There are four types of call list for check: Contact list, Status list, Missed call list and Received call list.

Battery Strength Indicator

LCD display let you know the current battery strength easily.

Lone Worker

Provide added security and safety for individuals who work remotely from their team. Automatic alarm will be activated when a user fails to respond to a regular warning tone.

Applications »

Police, Public security, Firefighting Government.



Specifications »

General	Frequency Range	UHF: 350-390MHz	400-470MHz	VHF: 136-174MHz
	Channel Capacity	256		
	Channel Spacing	25/20/12.5KHz		
	Operating Voltage	7.4 V		
	Battery	1700mAh (Li-ion)		
	Battery Life (5-5-90 duty cycle)	About 14 hours		
	Operating Temperature	-30°C~+60°C		
	Antenna Impedance	50Ω		
	Dimensions (H*W*D) (with battery, without antenna)	124 × 54 × 34.5mm		
	Weight (with antenna & battery)	340g		
	Frequency Stability ±	±± 2.5ppm		
Receiver	Sensitivity	0.25/0.35 μ V		
	Selectivity	70/60dB		
	Intermodulation	65dB		
	Spurious Response Rejection	70dB		
	S/N	45/40dB		
	Rated Audio Power Output	1W		
Transmitter	Rated Audio Distortion	≤10%		
	RF Power Output	5W/2W/1W (UHF/VHF)		
	Spurious and Harmonics	-36dBm (<1GHz)	-30dBm(> 1GHz)	
	Modulation	16K Φ F3E/11K Φ F3E		
	FM Noise	45/40dB		
	Audio Distortion	≤5%		

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Li-ion Battery (1700mAh) BL1703, MCU Rapid-rate Charger CH10L07, Switching Power PS1009, Belt Clip BC08, Strap RO04

Optional Accessories

<p>MCA03</p>  <p>MCU Rapid-rate Multi-unit Charger for Li-ion/Ni-MH Batteries</p>	<p>PS7002</p>  <p>Six-unit Switching Power</p>	<p>SM13N5</p>  <p>Water Resistant Remote Speaker Microphone (IP56)</p>	<p>ESS07</p>  <p>Receive-only Earpiece (for use with remote speaker microphone)</p>
<p>ECN08/ECN09</p>  <p>Heavy Duty, Noise-cancelling Headset Behind-the-head, Noise-cancelling Headset</p>	<p>EWM03</p>  <p>2-wire Earpiece with Wireless Earphone and Neck Loop</p>	<p>ESN05</p>  <p>Earbud with in-line PTT</p>	<p>EAN06</p>  <p>3-wire Surveillance Earpiece with Transparent Acoustic Tube</p>

Note: Pictures above are for reference only and may vary from actual products.

Professional

TC-780M Portable Radio

The new professional trunking two-way radio TC-780M delivers superior quality and powerful functions at a very competitive price and is compliant with MPT-1327 and MPT-1343. Exclusive functions such as Encryption Group Communication, Whisper and Man Down ensure wireless command and dispatching in public safety, security patrol, etc.



TC-780M

Highlights »

Encryption Group

When the property of a group is set to encryption group via the programming software, all the group members shall automatically enter encryption mode during an encryption group call. During an individual call or non-encryption group call, the user can switch between clear mode and encryption mode through the defined key.

Whisper

The feature allows you to speak quietly into the radio and still be heard clearly. This is very useful in environments where silence is required. Whisper and vibration alert are important for mission-critical communications.

Non-voice VOX

Enjoy hands-free operation when used with vibration type microphone or voice microphone; the latter has poorer anti-interference performance.

Man Down

TC-780M supports Man Down to provide greater safety for employees. An automatic alarm will be activated when the radio falls over for a predetermined time period.

Vibration

You may select call alert to vibration, ring, or vibration & ring. Vibration is often used in a meeting or other environments where silence is required.

Features »

Auto Select BS

The advanced hunt technology enables the radio to always lock onto the BS with stronger signal, ideal for the multiple BS covered system. As for the single BS, this feature can be disabled.

Full Off Air Call Setup (FOACSU)

When a portable radio applies for transmitting a call to another one, the system will check if the portable expected to receive is available for talk. If so, the system will assign a traffic channel to the two parties, thus preventing traffic channel from being occupied unnecessarily.

Specific ID Calling

You can assign composed key with a specific ID number, such as broadcast call number and wired dispatcher number.

Calling Party Number Display

During a group call, the radio can display the number of the calling party for caller identification.

Built-in Modem

The built-in 1200/2400bps MSK modulator enables data transmission and GPS satellite location.

Call History

Show the last 10 missed lists, 10 dialed lists and 10 received lists.

Flexible Group Call Setting

There is a combination of 80 call groups, including Hidden Group, Broadcast Group, Join Group, Data Group, Ack Group, Encryption Group, Temporary Group, and All Call Group.

VOTENOW

When the radio receives VOTENOW message on a signaling channel, it will automatically compare the signal strength of neighbor BS, and shall lock onto the BS with strongest signal.

Manual Select BS

You can enter a signaling channel number through the keypad to lock onto a BS, or write parameters of different BS control (signal) channels into different control channel teams to select BS through key operation.

4 System Networks

You can define parameters for 4 system networks, and switch among networks to operate in different system networks.

Temporary Grouping in Roaming System

Enable you to change the system code (PFI) to achieve temporary grouping in roaming system.

Kill/Revive

Through the base station, a lost radio can be remotely killed, and a killed radio can be remotely revived.

Missed Call Display

Remind you of all the missed calls.

Applications »

TC-780M trunking portable radio is the option customized for industries that require large scale networking, such as public security, military, port and airport. Advantages such as exceptional audio quality, structural reliability, performance stability and flexible expandability shall greatly improve your working efficiency and ease your work.



Specifications »

General	Frequency Range	350-390MHz	400-440MHz
	Channel Capacity	32	
	Channel Spacing	25/12.5KHz	
	Operating Voltage	DC7.4V	
	Battery	1700mAh(Li-ion)	
	Battery Life (5-5-90 duty cycle)	About 13hours	
	Operating Temperature	-20°C ~ +60°C	
	Antenna Impedance	50 Ω	
	Dimensions (H*W*D) (with battery, without antenna)	126.5 × 54 × 35mm	
	Weight (with antenna & battery)	360g	
Receiver	Frequency Stability ±	±2.5ppm	
	Sensitivity	≤0.25/0.28 μV (25/12.5KHz)	
	Selectivity	≥70/60dB (25/12.5KHz)	
	Intermodulation	≥65dB	
	Spurious Response Rejection	≥70dB	
	S/N	≥45/40dB (25/12.5KHz)	
Transmitter	Rated Audio Power Output	800mW	
	Rated Audio Distortion	≤5%	
	RF Power Output	5W/1W	
	Spurious and Harmonics	≥70dB	
	Modulation	16K Φ F3E/11K Φ F3E	
	FM Noise	≥45/40dB (25 /12.5 KHz)	
	Audio Distortion	≤3%	

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Li-ion Battery (1700mAh) BL1703, MCU Rapid-rate Charger CH10L07, Switching Power PS1009, Belt Clip BC08, Strap RO04

Optional Accessories

<p>BH1801/BL2102</p> <p>BH1801 Ni-MH Battery (1800mAh) BL2102 Li-ion Battery (2100mAh)</p>	<p>MCA03</p> <p>MCU Rapid-rate Multi-unit Charger for Li-ion/Ni-MH Batteries</p>	<p>PS7002</p> <p>Six-unit Switching Power</p>	<p>SM13N5</p> <p>Water Resistant Remote Speaker Microphone (IP56)</p>
<p>EWM03</p> <p>2-wire Earpiece with Wireless Earphone and Neck Loop</p>	<p>ECN07</p> <p>Light-weight, Single-ear Headset with In-line PTT</p>	<p>ESS07</p> <p>Earbud (for use with remote speaker microphone)</p>	<p>LCBY22</p> <p>Leather Carrying Case (swivel)</p>

Note: Pictures above are for reference only and may vary from actual products.

Professional

TM-600 TM-610 Mobile Radio

The high-performance, yet simple-to-use TM-600 and TM-610 mobiles are created to give you immediate, reliable communication you need to keep mobile working efficient. Voice compander and a powerful 13W external speaker ensure clear and crisp sound even in noisy environments. Its compact design makes these radios ideal when mounting space is limited.



TM-600



TM-610

Highlights »

Compact Design

The compact design makes TM-600/610 ideal when mounting space is limited.

Wide Band Coverage

Allow you to select specific frequency for use in their respective work environment.

Powerful Audio Output

Voice compander and the powerful 13W external speaker ensure clear and crisp sound even in noisy environment.

Built-in Scrambler

Communications confidentiality is increasingly important with potentially sensitive information flowing back and forth. The built-in scrambler of TM-600/610 provides enhanced confidentiality for your communications.

HDC2400™ and HDC1200 signaling (Only for 2-Tone version)

The HDC2400™ signaling is a proprietary signaling of Hytera, and contributes to the system with functions including ANI (Automatic Number Identification), Call Timer, Record, Record Inquiry, Short Message, Select Alarm, Data Transmission, Auto contact, Select Alarm, Individual Call, Group Call, Broadcast, Status Inquiry, Safety Check, Stun/Kill/Revive, etc.

Compatible with MDC1200, the HDC1200 signaling allows functions including PTT ID Encode & Decode, Emergency Encode, Radio Check Encode & Decode, Kill & Revive Decode, Individual Call, Group Call, Broadcast, Status Message Encode, and Fixed Message Encode, etc.

Short Message (only TM-610)

Messages, edited via keypad or pre-defined messages, can be sent between radios or to the control center.

Features »

Automatic Number Identification (ANI)

After HDC2400™ or HDC1200 signaling is received, the radio will display the ID or alias of the other party. The radio supports a selective call list containing up to 128 (128 for TM-610, 8 for TM-600) items.

Emergency Alarm

Press the Emergency Button to transmit a signal indicating an emergency situation.

8-Segment Numeric LED (TM-600)

The 8-segment numeric display indicates the channel of operation. The LED also indicates channel scan and transmit power operation.

DTMF Function

The DTMF calling function offers flexible dialing procedures of alias dial, auto dial and redial as well as manual dial. Customized and user-friendly number storage can be used for your most often called numbers.

6 (TM-610)/4 (TM-600) Programmable Backlit Keys

Provide immediate and easy access to your most often used functions.

Ignition Sense & Timed Power Off

When this function is enabled, you can turn on/off the radio by igniting/stalling the car via connecting the ignition wire to the rear panel of the radio. The radio can only be turned on by igniting the car and will be turned off automatically within the preset time after the car stalls.

UST (User Selectable Tone)

Users can select CTCSS/CDCSS code via programmed function key.

128 Channels and Dynamic Regrouping (TM-610)

The 128-channel operating capacity of the TM-610 offers flexibility in grouping. Each channel or zone can be assigned a name for easy identification. Dynamic regrouping provides greater flexibility in organizing different work groups.

Large 15-segment LCD Display (TM-610)

You can switch the display to show channels or zones, auto dial numbers or other functional settings as required. The keypad and display illuminate to provide visibility for night time operation.

Built-in Modem

The built-in 1200/2400bps MSK modulator offers data transmission capability.

Public Address (PA)

The PA feeds microphone audio through a powerful PA amplifier to the external speaker, offering superb vehicle audio clarity.

Lone Worker

Provide added security and safety for individuals who work remotely from their team. Automatic alarm will be activated when a user fails to respond to a regular warning tone.

Channel Scan (TM-600)

TM-600 offers priority channel scan, selectable priority channel, nuisance channel temporary delete, etc.

Versatile Scan (TM-610)

TM-610 scan supports single or multiple zone scanning, allowing functions include add/delete scan channels, nuisance channel delete and user selectable priority channel.

Wired Cloning/MSK Wireless Cloning

Allow you to quickly and easily copy one radio's configuration to another.

Stun/Revive

Provide enhanced security to prevent unauthorized use of lost or rental units by remote inhibition of either transmit or transmit/receive. A stunned radio will return to operation when the revive code is received.

Applications »

Transportation



Specifications »

General	Frequency Range	136-174MHz	400-470MHz	
	Channel Capacity	8 (TM-600)	128 (TM-610)	
	Zone Capacity	16 (TM-610)		
	Channel Spacing	25/20/12.5KHz		
	Operating Voltage	13.6V DC ± 15%		
	Current Drain Standby:	0.5A		
	Receive:	<2.0A		
	Transmit:	<5A(5W)/<8A (25W)		
	Frequency Stability	± 2.5ppm		
	Operating Temperature	-30°C~ +60°C		
	Antenna Impedance	50 Ω		
	Dimensions (W×H×D)	152mm×43mm×125mm		
	Weight	1Kg		
Receiver	Sensitivity	0.28/0.33/0.35 μ V		
	Sensitivity	75/70/65dB		
	Intermodulation	70/70/65dB		
	Spurious Response Rejection	70dB		
	S/N (wide/medium/narrow)	>45dB (25/20KHz)	>40dB (12.5KHz)	
	Internal Audio Power Output (Rated)	5W (less than 5% distortion)	3W (less than 3% distortion)	
Transmitter	External Audio Power Output (Rated)	13W (less than 5% distortion)	10W (less than 3% distortion)	
	RF Power Output	5W/25W		
	Modulation	16K Φ F3E/11K Φ F3E		
	Spurious and Harmonics	-36dBm (<1GHz)	-30dBm (>1GHz)	
	FM Noise	>45dB (25/20KHz)	>40dB (12.5KHz)	
Audio Distortion	≤3%			

All specifications are subject to change without notice due to continuous development.

Accessories »

Standard Accessories

Antenna, Vehicle Power Cable PWC06, Palm microphone SM11R1, Fuse POA15, Microphone Hanger, Screws for Microphone, HangerInstallation Kit BRK04

Optional Accessories



Note: Pictures above are for reference only and may vary from actual products.



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