



## Hytera Accessory Catalogue

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EN20111028



## Portable Radio Accessories

We provide all sorts of accessories like audio accessories, batteries, chargers, carry accessories and antennas, each of which is designed and tested to operate with your radios in extreme conditions while boosting team productivity.

- Audio Devices
- Power Devices
- Batteries
- Carry Accessories
- Programming Cable

## Audio Devices

Conventional earpieces allow you to work hands-free, enabling you to enjoy better convenience and discreet communication.



Conventional Earpiece



Surveillance Earpiece



Bone-conduction Earpiece



Remote Speaker Microphone



# Earbud with On-MIC PTT



1 Wearing style of PTT & MIC



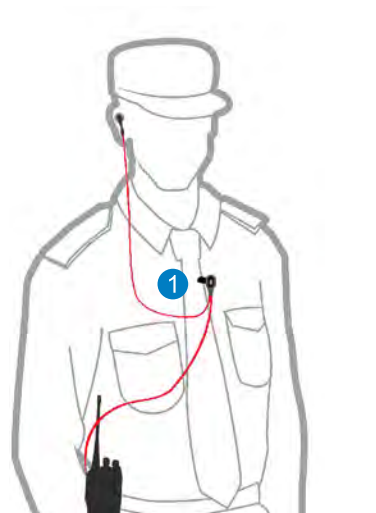
1 Wearing style of PTT & MIC



1 PTT/VOX switch

### Highlights

- » PTT-on-MIC design and elegant appearance;
- » Metal clip on the PTT back clips securely onto collar;
- » Capable of volume control and PTT/VOX switch;
- » Affordability and easy operation.



### Specifications

#### Speaker specifications

**Earpieces for analog radios:**  
 Sensitivity: 112 ± 3dB@1KHz 20mW (single part)  
 Rated power: 10mW Max. power: 30mW  
 Speaker impedance: 32Ω ± 15% @ 1 KHz

**Earpieces for digital radios:**  
 Sensitivity: 116 ± 3dB@1KHz 10mW (single part)  
 Rated power: 10mW, Max. power: 30mW  
 Speaker impedance: 90Ω ± 15% / 220Ω ± 20 % @ 1KHz

#### Microphone specifications

Sensitivity: -42 ± 3dB@1KHz 3.0V 2.2kΩ, 0dB=1V/Pa

#### Operating temperature

-20°C ~ 60°C

### Application

- Large enterprises
- Government sectors

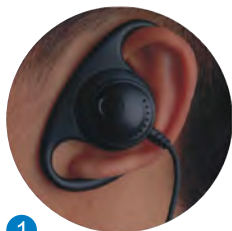
### Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	VOX	Remarks
	ESN10	PT580, PD70X(G), PD78X(G) and PT580H	●	○	
	ESN06	TC-780M, TC3000, TC3600, TC-780, TC-610P, TC-880GM and TC-700P	●	●	The VOX function can be enabled or disabled through the radio.
	ESM12	TC-700, TC-610, TC-620, TC-518, TC-580, TC-446S, TC-508 and POWER446	○	●	Switch between PTT and VOX from the earpiece
	ESM08	TC-500, TC-600, TC2110, TC2108 and TC1600	●	○	
	ESK04	TC-268, TC-368, TC-268S, TC-368S, TC-265, TC-365, TC-270 and TC-370	●	○	

Note: "O" indicates that the function is not available; "●" indicates that the function is available. The above VOX shall be programmed. Please refer to the Owner's Manual for specific configuration.



# D-earset with On-MIC PTT



1

Wearing style



2

Wearing style of PTT & MIC



2

Volume control

## Highlights

- » Comfortable to wear with D-style earset;
- » Flexible coiled cords for easy adjustment;
- » Excellent audio clarity through the large speaker;
- » Metal clip on the PTT back clips securely onto collar;
- » Volume control capability.



## Specifications

### Speaker specifications

Sensitivity: 119±3dB@1KHz 20mW (single part)  
 Rated power: 50mW Max. power: 100mW  
 Speaker impedance: 150Ω±15% @1KHz

### Microphone specifications

Sensitivity: -42±3dB@1KHz 3.0V 2.2kΩ, 0dB=1V/Pa

### Operating temperature

-20℃~60℃

## Application

- Large enterprises
- Government sectors

## Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	VOX	Remarks
	EHN12	PT580, PD70X(G), PD78X(G) and PT580H	●	○	

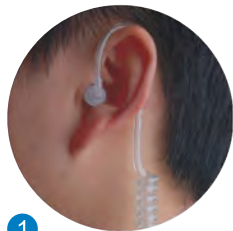
Note: "O" indicates that the function is not available; "●" indicates that the function is available. The above VOX shall be programmed. Please refer to the Owner's Manual for specific configuration.



# Surveillance Earpieces

Surveillance earpiece is designed for users who require discreet communication. Its soft silicone earplug can help you ease fatigue from long-time use.

## Earpiece with On-MIC PTT & Transparent Acoustic Tube



1 Wearing style



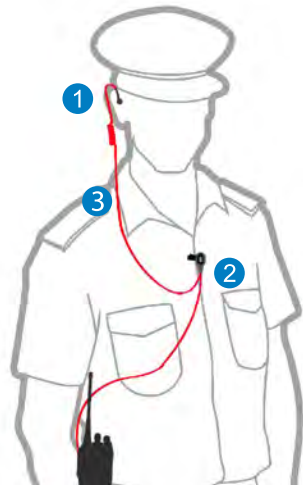
2 Wearing style of PTT & MIC



3 Detached transparent tube (for digital radios)



3 Detached transparent tube (for analog radios)



### Highlights

- » Flexible transparent tube for covertness and comfort;
- » Comfortable use with soft silicone earplug;
- » Detachable transparent tube for easy replacement;
- » PTT-on-MIC design;
- » Capable of volume control or PTT/VOX switch.



### Specifications

#### Speaker specifications

##### Earpieces for analog radios:

Sensitivity: 112 ± 3dB@1KHz 1mW (single part)  
 Rated power: 10mW Max. power: 30mW  
 Speaker impedance: 32Ω ± 15% @ 1 KHz

##### Earpieces for analog radios:

Sensitivity: 116 ± 3dB@1KHz 10mW (single part)  
 Rated power: 10mW Max. power: 30mW  
 Speaker impedance: 90 Ω ± 15% / 220Ω ± 20 % @ 1 KHz

#### Microphone specifications

Sensitivity: -42 ± 3dB@1KHz 3.0V 2.2kΩ, 0dB=1V/Pa

#### Operating temperature

-20°C~60°C

### Application

- Hospitality
- Entertainment
- Retail
- Catering services

### Applicable Radios List

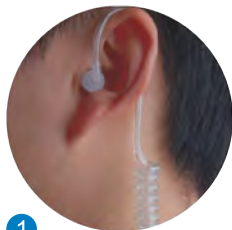
Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	VOX	Remarks
	EAN16	PT580, PD70X(G), PD78X(G) and PT580H	●	○	
	EAN04	TC-780M, TC3000, TC3600, TC-780, TC-610P, TC-700P and TC-880GM	●	●	The VOX function can be enabled or disabled through the radio.
	EAM12	TC-700, TC-610, TC-620, TC-518, TC-580, TC-446S, TC-508 and POWER446	○	●	Switch between PTT and VOX from the earpiece
	EAM08	TC-500, TC-600, TC2110, TC2108 and TC1600	●	○	
	EAK03	TC-268, TC-368, TC-268S, TC-368S, TC-265, TC-365, TC-270 and TC-370	●	○	

Note: "O" indicates that the function is not available; "●" indicates that the function is available. The above VOX shall be programmed. Please refer to the Owner's Manual for specific configuration.





## 3-wire Surveillance Earpieces with Transparent Acoustic Tube (black/beige)



1

Wearing style



2

Wearing style of MIC

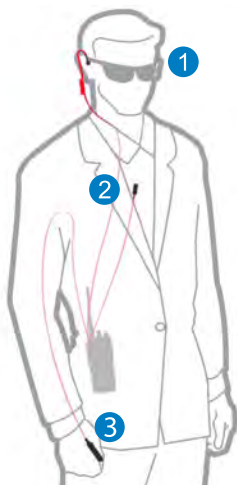


3

Wearing style of PTT

### Highlights

- » PTT, MIC and SPK separated for secret communication;
- » Flexible transparent tube for covertness and comfort;
- » Detachable transparent tube for easy replacement and better personal hygiene;
- » Two colors available: beige and black.



### Specifications

#### Speaker specifications

Sensitivity:  $116 \pm 3\text{dB}@1\text{KHz}$  1mW (single part)  
 Rated power: 10mW Max. power: 30mW  
 Speaker impedance:  $90\Omega \pm 15\%$  /  $220\Omega \pm 20\%$  @ 1 KHz

#### Microphone specifications

Sensitivity:  $-42 \pm 3\text{dB}@1\text{KHz}$  3.0V 2.2k $\Omega$ , 0dB=1V/Pa

#### Operating temperature

$-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$

### Application

- For users (such as the policeman) who require secret communication.

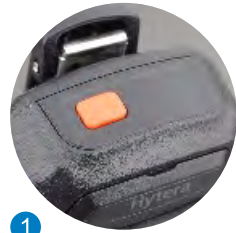


### Applicable Radios List

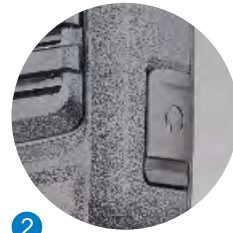
Audio Accessory Jack	Product Model	Color	Applicable Radios	Volume Control	VOX	Remarks
	EAN18	Black	PT580, PD70X(G), PD78X(G) and PT580H	○	○	
	EAN17	Beige				
	EAN02	Black	TC-780M, TC3000, TC3600, TC-780, TC-610P, TC-700P and TC-880GM	○	●	The VOX function can be enabled or disabled through the radio.
	EAN06	Beige				
	EAM16	Black	TC-700, TC-610, TC-620 and POWER446	○	○	
	EAM15	Beige				

Note: "O" indicates that the function is not available; "●" indicates that the function is available. The above VOX shall be programmed. Please refer to the Owner's Manual for specific configuration.

# Remote Speaker Microphones (IP57)



1 Alarm key



2 Audio jack (Φ 3.5mm)



### Highlights

- » Rugged and durable;
- » Compliant with IP57 requirements;
- » Emergency alarm capability;
- » Φ 3.5mm audio jack (for use with receive-only earpiece);
- » 360 degrees swivel metal clip.



Receive-only Earpiece ESS07



Receive-only Earpiece ESS08


### Specifications

Speaker specifications	
Sensitivity:	90 ± 3dB (1W/30cm)@ 300Hz-3KHz AVE
Rated power:	1W Max. power: 2W
Rated impedance:	8Ω ± 15% @ 1.5 KHz 1V (variable with frequency)
Microphone specifications	
Sensitivity:	-42 ± 2dB @1KHz (0dB=1V/Pa)
Directionality:	omni-directional
Size:	86.3*62.1*43.8(mm)
Weight:	about 160 g
Operating temperature:	-30℃~65℃

### Application

- For users (such as the rescuer) who work under adverse conditions.

### Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	LED illumination	Emergency
	SM18N2	PD70X(G) and PD78X(G)	○	○	●
	SM18N1	PT-580	○	○	●
	SM18N3	PT-580H	○	○	●

Note: "O" indicates that the function is not available; "●" indicates that the function is available. Emergency shall be programmed.



► **MCU Series**

Incorporating a digital IC chip, MCU charger can adopt battery-specific charging program automatically and adjust the charging pattern as the change in battery voltage and temperature.



MCU Dual-unit Charger  
CH10L13

Switching Power (EU-standard)  
PS1018

**Specifications**

Input: 12VDC 1A  
Charge current: 1000mA  
Operating temperature: 0~40°C

**Supported Battery**

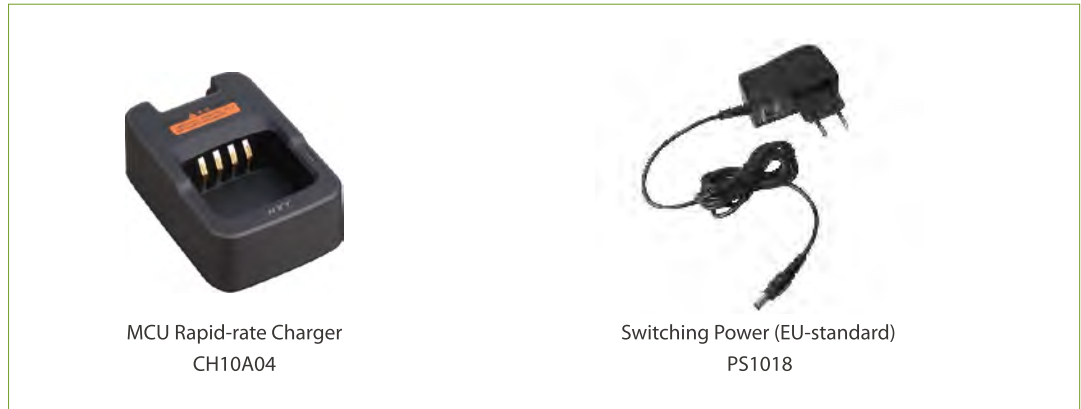
Li-ion battery

**Applicable Radios**

PT580

**The switching power may vary in different countries or areas:**

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US -standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK -standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)



MCU Rapid-rate Charger  
CH10A04

Switching Power (EU-standard)  
PS1018

**Highlights**

Capable of automatically detecting the current and voltage for charging control.

**Supported Battery**

Li-ion, Li-polymer, Ni-MH and Ni-Cd battery

**Specifications**

Input: 12VDC 1A  
Charge current: 1000mA  
Operating temperature: 0~40°C

**Applicable Radios**

PD70X(G), PD78X(G) and PT580H

**The switching power may vary in different countries or areas:**

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US -standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK -standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)



# Six-unit Chargers

This kind of charger allows you to charge six batteries or six radios with battery attached simultaneously, bringing you a set of benefits including high charging efficiency, extended battery life and flexible installation.

## Conventional Six-unit Charger



### Highlights

- » Capable of charging six batteries or six radios with batteries attached simultaneously;
- » Auto selection of charging program based on battery type;
- » Intelligently monitoring the charging process;
- » Equipped with multiple charging protection mechanisms;
- » Available for wall and desktop installation;
- » Switching power and power cord (variable in different countries or areas.) included in the kit.

### Application

Hospitality, retailing and other industries where intense charging services are required.

### Specifications

- » Input voltage: 100-240VAC 50/60Hz 1.5A
- » Charge current: 1000mA (per pocket)
- » Size: 474.5\*107.3\*65.9 (mm)
- » Weight: about 1.5Kg

### Applicable Radios List

Model	Applicable Radios	Supported Battery	Charging Duration
MCA06	PD78X(G),PD70X(G) and PT580H	Li-ion battery	2000mAh battery: About 3.5 hours
MCA03	TC-700,TC-780M, TC-780 and TC-700P	Li-ion, Li-polymer, Ni-MH and Ni-Cd battery	1700mAh battery: About 3 hours 2100mAh battery: About 3.5 hours
MCA02	TC-610,TC-620 and TC-610P	Li-ion, Li-polymer, Ni-MH and Ni-Cd battery	1200mAh battery: About 2 hours 2000mAh battery: About 3.5 hours
MCL11	TC-600,TC2110 and TC2108	Li-ion battery	1200mAh battery: About 2 hours
MCN05	TC-500	Ni-MH and Ni-Cd battery	1000mAh battery: About 1.5 hours

## Battery Optimizing System

### Highlights

- » Workable with different radios by replacing the pocket (sold separately);
- » Able to charge six batteries or six radios with batteries attached simultaneously;
- » Easy access to battery information with the LCD;
- » Able to recondition;
- » Charging/discharging and battery strength detection;
- » Protection against overtemperature, overvoltage and overcurrent;
- » USB port available;
- » Pre-charge capability.



### Application

For government agency, radio service center and radio rental shop where battery maintenance services are required.

### Specifications

- » Input voltage: 100~240VAC 50/60Hz 1.5A
- » Charge current: 1000mA (per pocket)
- » Size: 524.0\*218.0\*103.0 (mm)
- » Weight: 1.8kg

### Applicable Radios List

Model	Applicable Radios
MCA05	PD78X(G), PD70X(G) and PT580H
MCA05-A1	TC-700, TC-780, TC-780M and TC-700P
MCA05-G1	TC-880GM

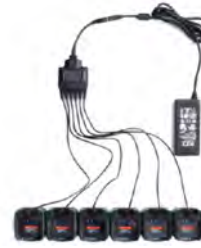
# Switching Power

## Six-unit Switching Power

This kind of charger allows you to charge six batteries or six radios with battery attached simultaneously, bringing you a set of benefits, including high charging efficiency, extended battery life and flexible installation.



Six-unit Switching Power



Application Demo

### Highlights

- » Capable of overvoltage, overcurrent and short circuit protection;
- » Compatible with most of our radios.

### Application

Hospitality, retailing, property management and other industries where intense communication activities are present.

### Applicable Radios List

Model	Output	Requirement	Applicable Radios
PS7002	12VDC/7A	Work with a charger	TC-268S, TC-368S, TC-270, TC-370, TC-518, TC-600, TC2110, TC2108, TC-700, TC-780M, TC3000, TC3600, TC-610, TC-620, TC-780, TC-700P, TC-610P, TC-880GM, TC-580, TC-446S, POWER446, TC-508, PD78X(G), PD70X(G), PT580H and PT580
PS4001	5VDC/4A	Work with a charger or radio	TC-320 and TC-310

## Vehicle Power Adapter

Powered by the vehicle lighter, this device can operate with a desktop charger to charge your battery, giving sufficient power to your outdoor work with easy operation and sound reliability.



Vehicle Power Adapter CHV09



Vehicle Power Adapter Pv1001

### Highlights

- » Voltage input: 11V~25VDC;
- » Capable of overvoltage and overcurrent protection.

### Application

Users who drive to work outdoors.

### Applicable Radios List

Model	Output	Requirement	Applicable Radios
CHV09	12VDC/1A	Work with a charger	TC-268S, TC-368S, TC-270, TC-370, TC-518, TC-600, TC2110, TC2108, TC-700, TC-780M, TC3000, TC3600, TC-610, TC-620, TC-780, TC-700P, TC-610P, TC-880GM, TC-580, TC-446S, POWER446, TC-508, PD78X(G), PD70X(G), PT580H and PT580
PV1001	5VDC/1A	Work with a charger or radio	TC-320 and TC-310



BL3201

Nominal capacity	3200mAh
Battery type	Li-ion
Nominal voltage	3.7V
Applicable radio	PT580
Operating time (5/5/90)	about 18.5h (variable with frequency)
Life cycle	≥ 400 times
Size	90.6*54.0*21.1 (mm)
Weight	about 103.3g
Operating temperature	0~40℃ (charge)/-20~60℃ (discharge)
IP class	IP56



BL2006

Nominal capacity	2000mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	PD70X(G) and PD78X(G)
Operating time (5/5/90)	>10.5h for analog mode or > 14.0h for digital mode (variable with frequency)
Life cycle	≥ 400 times
Size	106.4*56.3*18.4 (mm)
Weight	about 121.9g
Operating temperature	0~40℃ (charge)/-20~60℃ (discharge)



BL2503

Nominal capacity	2500mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	PD70X(G) and PD78X(G)
Operating time (5/5/90)	>13.0h for analog mode or > 17.0h for digital mode (variable with frequency)
Life cycle	≥ 400 times
Size	106.4*56.3*24.3 (mm)
Weight	about 145g
Operating temperature	0~40℃ (charge)/-20~60℃ (discharge)

# For Ex-protection Radios



BL1703-Ex(ATEx)

Nominal capacity	1700mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radio	TC-700Ex Plus
Operating time (5/5/90)	about 14.0h (variable with frequency)
Life cycle	≥ 400 times
Size	107.0*54.0*20.0 (mm)
Weight	about 274.0g
Operating temperature	0~40℃ (charge)/-20~60℃ (discharge)
Certified by	ATEX



BL1703-Ex(FM)

Nominal capacity	1700mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radio	TC-700Ex Plus
Operating time (5/5/90)	about 14.0h (variable with frequency)
Life cycle	≥ 400 times
Size	107.0*54.0*20.0 (mm)
Weight	about 274.0g
Operating temperature	0~40℃ (charge)/-20~60℃ (discharge)
Certified by	FM



## Carrying Accessories

The combined use of audio and carry accessories can enhance the portability and accessibility of your radio. By taking actual requirements into account, we provide a package of helpful accessories, including carrying case, chest pack, waterproof bag, belt clip, strap and the like.



Leather Case



Belt Clip



Strap

## Carrying Case

The case is made of leather, PU or nylon, meeting the actual requirements of users at all levels.

### ► Leather Case

This kind of case features remarkable wearability. It can defend your radio against scrape or scratch on the move.

#### LCY003



##### Highlights

- » Soft leather makes it comfortable to wear;
- » D-type buckle and rotatable belt loop enable you to install the case easily (just by rotating the radio);
- » The standard nylon strap gives you more flexibility of wearing.

##### Applicable Radios

PD70X(G), PD78X(G), PT580H and PT580 (with 3200mAh Li-ion battery)

##### Specifications

- » Material: cowhide
- » Size: 132.0\*58.0\*47.0 (mm)
- » Weight: about 146.0g
- » Operating temperature: -40~55°C

#### LCY002



##### Highlights

- » Soft leather makes it comfortable to wear;
- » D-type buckle and rotatable belt loop enable you to install the case easily (just by rotating the radio);
- » The standard nylon strap gives you more flexibility of wearing.

##### Applicable Radios

PT580 (with 1800mAh Li-ion battery)

##### Specifications

- » Leather type: cowhide
- » Size: 132.0\*62.0\*38.0 (mm)
- » Weight: about 150.0g
- » Operating temperature: -40~55°C

### ► PU Case

PU case features decent appearance and great economy.

#### PCN003



##### Highlights

- » Soft texture and compact body;
- » Elastic clip (not rotatable);

##### Applicable Radios

TC-320

##### Specifications

- » Material: PU (polyurethane)
- » Size: 101.0\*58.0\*28.0 (mm)
- » Weight: 28.4g
- » Operating temperature: -25~55℃

### ► Nylon Case

Benefiting from the use of high-strength nylon, this kind of case can deliver exceptional performance in water resistance, wearability and affordability.

#### NCN001



##### Highlights

- » Half-open design for easy installation;
- » Back-lock belt loop for easy use;
- » The standard nylon strap gives you more flexibility of wearing.

##### Applicable Radios

TC-500, TC-600, TC-610, TC-620, TC-610P, Tc2110, TC-2108, TC-518, TC-446S, TC-508, POWER446 and TC-446

##### Specifications

- » Material: nylon
- » Size: 120.0\*60.0\*38.0 (mm)
- » Weight: 87.2g
- » Operating temperature: -25~55℃

#### NCN002



##### Highlights

- » Half-open design for easy installation;
- » Back-lock belt loop for easy use;
- » The standard nylon strap gives you more flexibility of wearing.

##### Applicable Radios

TC-268S, TC-368S, TC-265, TC-365 and TC-700

##### Specifications

- » Material: nylon
- » Size: 136.0\*68.0\*40.0 (mm)
- » Weight: 60.6g
- » Operating temperature: -25~55℃

### ► Others

#### Waterproof Bag LCYY02



##### Highlights

- » 2-layer frosted PVC for comfortable texture;
- » The interlined sponge provides extra protection for the terminal;
- » Simple operation with higher reliability;
- » Applicable to use in rainy days or in damp locations, but no submerging is allowed;
- » The standard nylon strap gives you more flexibility of wearing.

##### Applicable Radios

All except for small-sized radios.

##### Specifications

- » Material: PVC (with interlined sponge)
- » Size: 435.0\*110.0\*214.0 (mm)
- » Weight: 41.6g
- » Operating temperature: 0~50℃

#### Nylon Chest Pack LCBN13



##### Highlights

- » Adjustable strap for enhanced comfort;
- » Designed for users (such as the policeman) who need to carry the radio and other tools.

##### Applicable Radios

All except for small-sized radios.

##### Specifications

- » Material: nylon (1680D)
- » Size: 223.0\*184.0 (mm)
- » Weight: 277.8g
- » Operating temperature: -25~55℃

# Belt Clip



### Product Model

#### BC09

A plastic belt clip with elastic metal bracket. You can attach it to the battery easily via the slot on the back.

### Applicable Radios

TC-268S, TC-368S, TC-265, TC-365, TC-270, TC-370, TC-700, TC-780M, TC-780, TC-700P, TC-700Ex Plus, TC3000 and TC3600.



### Product Model

#### BC08

A plastic belt clip with elastic metal bracket. You can secure it to the radio via screws.

### Applicable Radios

TC-700, TC-700P and PT580H



### Product Model

#### BC19

A plastic belt clip with elastic metal bracket. You can secure it to the radio via screws.

### Applicable Radios

PD70X(G), PD78X(G), TC-780, TC-780M and TC-880GM



### Product Model

#### BC17

A plastic belt clip with elastic metal bracket. You can secure it to the radio via screws.

### Applicable Radios

PT580



### Product Model

#### BC12

A plastic belt clip with elastic metal bracket. You can secure it to the radio via screws.

### Applicable Radios

TC-610, TC-620, TC-610P, TC-518, TC-446S, TC-580, TC-508 and POWER446



### Product Model

#### BC11

A plastic belt clip with elastic metal bracket. You can attach it to the battery easily via the slot on the back.

### Applicable Radios

TC-600 and TC1600



### Product Model

#### BC10

A plastic belt clip with elastic metal bracket. You can attach it to the battery easily via the slot on the back.

### Applicable Radios

TC-500, TC2110 and TC2108



### Product Model

#### BC16

A plastic belt clip with elastic metal bracket. You can secure it to the radio via screws.

### Applicable Radios

TC-310 and TC-320



# Strap



### Product Model

RO01  
Nylon neck strap

### Applicable Radios

TC1688, TC-310 and TC-320



### Product Model

RO05  
Nylon hand strap

### Applicable Radios

TC-268S, TC-368S, TC-265,  
TC-365, TC-500 and TC-446



### Product Model

RO03  
Nylon hand strap

### Applicable Radios

TC-600, TC-610, TC-620,  
TC-610P, TC1600, TC-518,  
TC-580, TC-446S, TC-508  
and POWER446



### Product Model

RO04  
Leather hand strap

### Applicable Radios

TC-700, TC-780M, TC-700Ex Plus,  
TC3000, TC3600, TC-780, TC-700P,  
TC-880GM, PD70X(G), PD78X(G),  
PT580 and PT580H

## Programming Cable

You can use a programming cable to write or read data into or from radios. One end of the cable connects with a radio and the other connects with a computer. All configurations are done via the CPS (customer programming software). There are two ports available: USB and COM.



Programming Cable

# Flexible Whip Antennas

Flexible whip antenna with a one-piece finish, steel core and spiral wound conductor features optimal radiation characteristics to ensure maximum communication range.

Flexible Whip Antenna



Model and Name	Applicable Radios
AN0415W06 UHF Thin and Long Antenna SMA Connector 400-430MHz	TC-500, TC-268S, TC-368S, TC-518, TC-508, TC-600, TC-610, TC-620, TC-610P,
AN0425W02 UHF Thin and Long Antenna SMA Connector 400-450MHz	TC-500, TC-508, TC-610, TC-620, TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus
AN0460W08 UHF Thin and Long Antenna SMA Connector 450-470Mhz	TC-500
AN0460W16 UHF Thin and Long Antenna SMA Connector 440-470Mhz	TC-268S, TC-368S, TC-518, TC-508, TC-508, TC-600, TC-610, TC-620, TC-610P
AN0445W01 UHF Thin and Long Antenna SMA Connector 420-470MHz	TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus
AN0465W01 UHF Thin and Long Antenna SMA Connector 440-490MHz	TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus
AN0480W03 UHF Thin and Long Antenna SMA Connector 470-490MHz	TC-268S, TC-368S, TC-600, TC-610, TC-620
AN0495W03 UHF Thin and Long Antenna SMA Connector 470-520MHz	TC-268S, TC-368S, TC-518, TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus

# Helical Antennas

Helical antennas with helical brass core are durable and reliable for years of safe communication. Especially these stubby helical antennas are ideal when the radio is worn on the belt because they are short and non-obtrusive.

Stout and Long Helical Antenna



Model and Name	Applicable Radios
AN0143H04 VHF Stout and Long Antenna SMA Connector 136-150MHz	TC-500, TC-268S, TC-368S, TC-518, TC-580, TC-610, TC-620, TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus
AN0160H11 VHF Stout and Long Antenna SMA Connector 146-174MHz	TC-500, TC-268S, TC-368S, TC-518, TC-508, TC-600, TC-610, TC-620, TC-610P, TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus

Combination GPS/VHF Antenna



Model and Name	Applicable Radios
AN0141H01 VHF Stout and Long Antenna SMA Connector 136-147MHz/1575MHz	PD78X(G), PD70X(G)
AN0153H02 VHF Stout and Long Antenna SMA Connector 147-160MHz/1575MHz	PD78X(G), PD70X(G)
AN0167H01 VHF Stout and Long Antenna SMA Connector 160-174MHz/1575MHz	PD78X(G), PD70X(G)
AN0155H02 VHF Stout and Long Antenna SMA Connector 136-174MHz/1575MHz	PD78X(G), PD70X(G)

Stubby Helical Antenna



Model and Name	Applicable Radios
AN0160H01 VHF Stubby Antenna SMA Connector 145-175MHz	TC-500, TC-600
AN0360H02 UHF Stubby Antenna SMA Connector 350-370MHz	TC-500, TC-600
AN0380H02 UHF Stubby Antenna SMA Connector 370-390MHz	TC-500
AN0360H01 UHF Stubby Antenna SMA Connector 350-370MHz	TC-518, TC-610, TC-620, TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus
AN0380H01 UHF Stubby Antenna SMA Connector 370-390MHz	TC-518, TC-580, TC-600, TC-610, TC-620, TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus
AN0360H13 UHF Stubby Antenna SMA Connector 350-370MHz	TC-580,
AN0325H01 UHF Stubby Antenna SMA Connector 300-350MHz	TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus
AN0425H01 UHF Stubby Antenna SMA Connector 400-450MHz	TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus
AN0445H01 UHF Stubby Antenna SMA Connector 420-470MHz	TC-518, TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus
AN0465H01 UHF Stubby Antenna SMA Connector 440-490MHz	TC-610, TC-620, TC-700, TC-780, TC-780M, TC-700P, TC-700Ex Plus
AN0455H02 UHF Stubby Antenna SMA Connector 440-470MHz	TC-268S, TC-368S
AN0455H03 UHF Stubby Antenna SMA Connector 440-470MHz	TC-600
AN0410H20 UHF Stubby Antenna R Connector 400-420MHz	TC-310, TC-320
AN0460H10 UHF Stubby Antenna R Connector 450-470MHz	TC-310, TC-320
AN0433H01 UHF Stubby Antenna R Connector 422-445MHz	TC-310, TC-320
AN0838H03 UHF Stubby Antenna SMA Connector 806-870MHz	PT580

Combination GPS/UHF Antenna



Model and Name	Applicable Radios
AN0360H15 UHF Stubby Antenna SMA Connector 350-370MHz/1575MHz	TC-880GM
AN0455H08 UHF Stubby Antenna SMA Connector 440-470MHz/1575MHz	TC-880GM
AN0375H01 UHF Stubby Antenna SMA Connector 350-400MHz/1575MHz	PD78X(G), PD70X(G), PT580H
AN0435H02 UHF Stubby Antenna SMA Connector 400-470MHz/1575MHz	PD78X(G), PD70X(G)
AN0485H01 UHF Stubby Antenna SMA Connector 450-520MHz/1575MHz	PD78X(G), PD70X(G)
AN0405H04 UHF Stubby Antenna SMA Connector 380-430MHz/1575MHz	PT580H, TC-880GM
AN0838H02 UHF Stubby Antenna SMA Connector 806-870MHz/1575MHz	PT580





## Repeater and Mobile Radio Accessories

To optimize the performance of repeaters and mobile radios, we develop a package of helpful accessories, including microphone, speaker, power supply, power cord, installation kit, data cable, antenna, etc.

- Audio Devices
- Power Devices
- Power Cords
- Installation Kits
- Duplexers
- Data Cables
- Mobile Antennas

## Audio Devices

The accessories available for mobile radios include palm microphone, desktop microphone and external speaker, meeting your specific requirements in different conditions.



Palm Microphone



Desktop Microphone



External Speaker

# Palm Microphone

A full line of audio accessories, including conventional earpieces, surveillance earpieces, dedicated earpieces, and remote speaker microphone, is performance-matched for your radios, delivering you secure and reliable communication.

## Palm Microphone SM16A1

### Highlights

- » Rugged quality ensures superb performance even in tough environments;
- » Electret design delivers crisp and clear voice;
- » 10-pin aviation connector for secure connection;
- » IP54 compliance.

### Specifications

- » Sensitivity:  $-26 \pm 3\text{dB @1KHz (0dB=1V/Pa)}$
- » Output impedance:  $\leq 2.2\text{k}\Omega$
- » Directionality: omni-directional
- » Size:  $82.0*56.0*32.2 \text{ (mm)}$
- » Weight: about 120.0g
- » Operating temperature:  $-30\sim 65^\circ\text{C}$

### Applicable Radios

MT680, MD78X(G) and RD98X



## Palm Microphone (with keypad) SM19A1

### Highlights

- » Large-size and ergonomical keys ;
- » Multiple keys available for programming based on your preferences;
- » Emergency alarm capability at one-button operation;
- » Electret design delivers crisp and clear voice;
- » 10-pin aviation connector for secure connection;
- » IP54 compliance.

### Specifications

- » Sensitivity:  $-26 \pm 3\text{dB @1KHz (0dB=1V/Pa)}$
- » Output impedance:  $\leq 2.2\text{k}\Omega$
- » Directionality: omni-directional
- » Size:  $97.0*64.0*39.4 \text{ (mm)}$
- » Weight: about 170.0g
- » Operating temperature:  $-30\sim 65^\circ\text{C}$

### Applicable Radios

MD78X(G)



# Desktop Microphone

Designed for repeaters and base radios, our desktop microphone features high sensitivity and sonorous voice.

## Desktop Microphone

### Highlights

- » Electret design delivers crisp and clear voice;
- » Built-in amplifier circuit provides audio with high gain over a wide frequency range;
- » Large PTT key and MONITOR key with lock capability.

### Specifications

- » Sensitivity:  $-32 \pm 5\text{dB} @ 1\text{kHz} (0\text{dB} = 1\text{V/Pa})$
- » Output impedance:  $\leq 2.2\text{k}\Omega$
- » Directionality: omni-directional
- » Size:  $107.0 * 65.0 * 148.6 \text{ (mm)}$
- » Weight: about 164.0g
- » Operating temperature:  $-30 \sim 70^\circ\text{C}$



Product Model	Jack Picture	Applicable Radios
SM10R2	RJ45 	TM-800, TM-800M, TM-600, TM-610, TM-628H and TR-800
SM10A1	10-pin aviation connector 	MT680, MD78X(G) and RD98X

# External Speaker

This large speaker works with high power, enabling it to deliver clear and sonorous voice.

## External Speaker



### Highlights

- » Flexible and easy to install;
- » Adjustable bracket for your actual requirements;
- » Clear and sonorous voice output.

### Specifications

- » Sensitivity:  $88 \pm 2\text{dB} (1\text{W}/1\text{m}) @ 600, 700, 800, 900\text{Hz AVE}$
- » Rated Power: 15W Max. Power: 20W
- » Rated Impedance:  $8\Omega \pm 15\% @ 500\text{Hz}$
- » Size:  $155.6 * 92.5 * 140.2 \text{ (mm)}$
- » Weight: about 774.0g
- » Operating temperature:  $-30 \sim 70^\circ\text{C}$



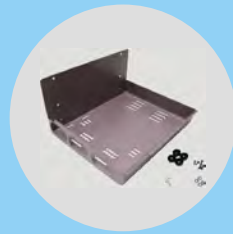
Product Model	Jack Picture	Applicable Radios
SM09S2	$\Phi 3.5\text{mm}$ single pin 	TM-800, TM-800M, TM-600, TM-610 and TM-628H
SM09D1	DB26 contact pin 	MT680 and MD78X(G)



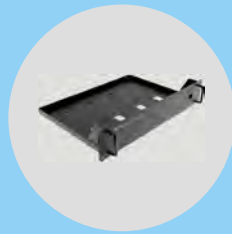
## Installation Kits



For Radio



For Duplexer



For Power Supply



Mobile Radio Remote Mount Kit

## For Radios

To secure the installation of mobile radios and related devices, we develop a number of installation kits, including bracket, pad, knob, screw, etc.



**Installation Kit BRK03**

Applicable Radios

TM-800 & TM-800M



**Installation Kit BRK04**

Applicable Radios

TM-600 & TM-610



**Installation Kit BRK08**

Applicable Radios

MD78X(G)



**Installation Kit BRK11**

Applicable Radios

MT680



**Installation Kit BRK10**

Applicable Radios

DT600



# GPS RX Antenna



**Mobile GPS RX Kit**

**Product Overview**

- » GPS03 Mobile GPS RX Kit (including GPS antenna and option board)

**Applicable Radios**

TM-800 and TM-800M



**Mobile GPS Antenna**

**Product Overview**

- » GPS04 Mobile GPS antenna (SMA/1575MHz)

**Applicable Radios**

MD78X(G), MT680 and DT600

# Mobile Radio Antennas

Being made of stainless steel, this antenna features good elasticity and age resistance. Its base comes with three types: Magnetic, Clip and Hole.



**TQC-150AII**

**Product Overview**

- » AN0139M01 VHF TQC-150AII 136-142MHz 2.15dBi BNC-M M110 Mounting Tray
- » AN0155M06 VHF TQC-150AII 152-158MHz 2.15dBi BNC-M M110 Mounting Tray
- » AN0165M04 VHF TQC-150AII 162-168MHz 2.15dBi BNC-M M110 Mounting Tray
- » AN0171M11 VHF TQC-150AII 168-174MHz 2.15dBi BNC-M M110 Mounting Tray

**Applicable Radios**

MD78X(G)

**Specifications**

Frequency Range (MHz)	134-173
Bandwidth (MHz)	10
Gain (dBi)	2.15
VSWR	≤ 1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	50 (subject to frequency)
Weight (g)	150 (subject to frequency)



**TQC-150CII**

**Product Overview**

- ①
  - » AN0139M02 VHF TQC-150CII 136-142MHz 3dBi BNC Interface M110 Mounting Tray
  - » AN0155M05 VHF TQC-150CII 152-158MHz 3dBi BNC Interface M110 Mounting Tray
  - » AN0165M03 VHF TQC-150CII 162-168MHz 3dBi BNC Interface M110 Mounting Tray
  - » AN0171M12 VHF TQC-150CII 168-174MHz 3dBi BNC Interface M110 Mounting Tray
- ②
  - » AN0138M05 VHF TQC-150CII 136-142MHz 3.5dBi UHF Interface M110 Mounting Tray
  - » AN0155M07 VHF TQC-150CII 152-158MHz 3.5dBi UHF Interface M110 Mounting Tray
  - » AN0165M05 VHF TQC-150CII 162-168MHz 3.5dBi UHF Interface M110 Mounting Tray
  - » AN0171M05 VHF TQC-150CII 168-174MHz 3.5dBi UHF Interface M110 Mounting Tray

**Applicable Radios**

- ① MD78X(G)
- ② TM-800, TM-800M, TM-600, TM-610

**Specifications**

Frequency Range (MHz)	134-173
Bandwidth (MHz)	6
Gain (dBi)	3/3.5
VSWR	≤1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	110 (subject to frequency)
Weight (g)	220 (subject to frequency)



**TQC-350  
FC/400FC/400FCS Series**

**Product Overview**

- ①
  - » AN0358M12 UHF TQC-350FC 351-366Mhz 3.5dBi BNC Interface M110 Mounting Tray
  - » AN0380M03 UHF TQC-350FC 372-388MHz 3.5dBi BNC Interface M110 Mounting Tray
  - » AN0408M02 UHF TQC-400FC 400-416MHz 3.5dBi BNC Interface M110 Mounting Tray
  - » AN0438M03 UHF TQC-400FC 430-446MHz 3.5dBi BNC Interface M110 Mounting Tray
  - » AN0462M03 UHF TQC-400FC 454-470MHz 3.5dBi BNC Interface M110 Mounting Tray
- ②
  - » AN0358M05 UHF TQC-350FC 351-366MHz 3.5dBi UHF Interface
  - » AN0380M01 UHF TQC-350FC 370-390MHz 3.5dBi UHF Interface M110 Mounting Tray
- ③
  - » AN0420M04 UHF TQC-400FCS 410-430MHz 3dBi BNC Interface M110 Mounting Tray
  - » AN0390M02 UHF TQC-400FCS 380-400MHz 3dBi BNC Interface M110 Mounting Tray

**Applicable Radios**

- ① MD78X(G)
- ② TM-800, TM-800M, TM-600, TM-610
- ③ DT600

**Specifications**

Frequency Range (MHz)	300-390/400-490
Bandwidth (MHz)	20
Gain (dBi)	3/3.5
VSWR	≤1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	39 (subject to frequency)
Weight (g)	85 (subject to frequency)



**TQC-350CII/DIIS Series**

**Product Overview**

- ① ✧ AN0358M11 UHF TQC-350CII 351-366MHz 5dBi BNC Interface M110 Mounting Tray
- ② ✧ AN0380M02 UHF TQC-350CII 372-388MHz 5dBi BNC Interface M110 Mounting Tray
- ③ ✧ AN0375M03 UHF TQC-350CII 370-380MHz 5dBi UHF Interface M110 Mounting Tray
- ④ ✧ AN0385M04 UHF TQC-350DIIS 380-390MHz 5.5dBi BNC Interface M110 Mounting Tray  
AN0395M06 UHF TQC-350DIIS 390-400MHz 5.5dBi BNC Interface M110 Mounting Tray

**Applicable Radios**

- ① MD78X(G), MT680
- ② MD78X(G)
- ③ TM-800, TM-800M, TM-600, TM-610
- ④ MT680

**Specifications**

Frequency Range (MHz)	300-390
Bandwidth (MHz)	10
Gain (dBi)	5/5.5
VSWR	≤ 1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	110 (subject to frequency)
Weight (g)	220



**TQC-400DII/DIIS Series**

**Product Overview**

- ① ✧ AN0405M01 UHF TQC-400DII 400-410MHz 5dBi UHF Interface M110 Mounting Tray  
✧ AN0415M01 UHF TQC-400DII 410-420MHz 5dBi UHF Interface M110 Mounting Tray  
✧ AN0425M01 UHF TQC-400DII 420-430MHz 5dBi UHF Interface M110 Mounting Tray  
✧ AN0435M02 UHF TQC-400DII 430-440MHz 5dBi UHF Interface M110 Mounting Tray  
✧ AN0445M02 UHF TQC-400DII 440-450MHz 5dBi UHF Interface M110 Mounting Tray  
✧ AN0455M02 UHF TQC-400DII 450-460MHz 5dBi UHF Interface M110 Mounting Tray  
✧ AN0462M20 UHF TQC-400DII 454-470MHz 5dBi UHF Interface M110 Mounting Tray
- ② ✧ AN0408M01 UHF TQC-400DII 400-416MHz 5dBi BNC Interface M110 Mounting Tray  
✧ AN0438M02 UHF TQC-400DII 430-446MHz 5dBi BNC Interface M110 Mounting Tray  
✧ AN0462M02 UHF TQC-400DII 454-470MHz 5dBi BNC Interface M110 Mounting Tray
- ③ ✧ AN0415M04 UHF TQC-400DIIS 410-420MHz 5.5dBi BNC Interface M110 Mounting Tray  
✧ AN0425M03 UHF TQC-400DIIS 420-430MHz 5.5dBi BNC Interface M110 Mounting Tray

**Applicable Radios**

- ① TM-800, TM-800M, TM-600, TM-610
- ② MD78X(G)
- ③ MT680

**Specifications**

Frequency Range (MHz)	400-480
Bandwidth (MHz)	16
Gain (dBi)	5/5.5
VSWR	≤ 1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	110 (subject to frequency)
Weight (g)	220 (subject to frequency)