

## Performance Parameter

### 0601A Earpiece

Max. Volume Output@3KHz	105dB
Frequency Response	300~3600Hz
Signal Processing Mode	DSP Digital Filtering Technology
Noise Filtering Mode	Soft Squelch
Battery Model	ZnQ2, A10
Battery Life	80hrs
Low Battery Warning	Beep Tone
SNR	>45dB
Storage Temperature	-20°C ~ 70 °C
Operating Temperature	0°C ~ 40 °C
Dimensions	5X10X15mm
Weight (Incl. Battery)	1.3g
Color	Beige
Complies with	CE/FCC

### SP-2FM Integrated Loopset

Color	Beige
Impedance	≥40Ω(300Hz ~1kHz) ≥130Ω(≥ 5kHz)
Length	>50cm, C/W Self Separation Unit
Maximum Output Signal	3.5V
Power Supply	from Radio
Voltage	3.3V ~ 10V

### Microphone

Type	Omni Directional
Impedance	4.4K @ 1kHz
Frequency Response	100Hz ~ 10kHz
Sensitivity@1kHz(dB re 1.0V/0.1Pa)	-53±2dB
Maximum Output Current	50uA
Voltage	1.5V ~ 10V
Operating Temperature	-10°C ~ 60 °C

### Wireless PTT

Operation Principle	NFMI
Modulated	2-level CPFSK
Operation Range	<150cm
Battery Type	CR2450
Battery Operation Time	1 Year
Stand-by Current	< 200uA
Operation Current	< 6mA
Low Battery Warning	LED
Dustproof &Waterproof	IP67



The Exclusive Safety and Security Products for the 26th Universiade

# Covert Earpiece

★ Amulet of Life and Security



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# Duplex Covert Intercom System



Duplex Covert Intercom System : Duplex Covert Intercom Terminal + Integrated Loopset + Covert Earpiece

## Introduction

**QDC Duplex Covert Intercom System**, the world's most advanced full-duplex covert intercom system at present, which consists of a full-duplex communication terminal, a integrated loopset and a covert earpiece. It can achieve full-duplex mode between 2-6 persons digital wireless communications and no base station is in need. Encryption mode ensures the group members to achieve real covert communication, and group number is unlimited in listener mode. It allows multiple users to create a instant, continuous, secure audio conference. Based on the covert and digital communication technology, the duplex covert intercom system has broad application, including criminal investigation, anti-terrorism, drug enforcement, security,

negotiations, and voice conference. QDC Duplex Covert Intercom System is a world leading complete system for multi-party covert duplex communication. It enables several users to create an instant, continuous and secure audio conference. The latest radio encrypted technology ensures the transmission of information is absolutely safe. The number of users in a group can up to 6 in full duplex mode and allows an unlimited number in listening mode. Group members are allowed to change at any time, different team members in the same area do not influence each other.

## Features

- 2 to 6 in full duplex mode
- Scalability allowing easy increase of operators
- Genuine full duplex mode
- Unlimited number of users in listener mode
- Instant speaking with nothing to press, hands-free
- No base station needed
- Digital encryption technology eliminates eavesdropping
- Patented noise cancelling filter
- Low profile compact module , light , firm
- Up to 14 Hr battery life on a single charge
- Group function, network can be divided into user sub-groups
- Integration with lightweight loopset and zero noise digital covert earpiece



System provides 3 channels, each of them provides 6 operation roles and a listener role (receiver) , and the number of listeners is unlimited. Users can switch channel and adjust role anytime as they need. Simple operation, advanced full-duplex mode and great concealment, ensure users smooth communication and effectively protect personal safety.

## Performance Parameters

Number of users	2~6 in full duplex mode + an unlimited number in listening mode
Terminal weight	150g (battery included) 120X60X25mm
Weight and dimensions ( Earpiece )	1.3g 5X10X15mm
Temperature range	-10/+50°C
Battery life	Up to 14 hours
Battery type	Rechargeable Li-Polymer 3.7V 1000mAh or 2000mAh
Power	10/2.00mW
Communication range	Up to 800m
Channels	3
Modulation	GFSK
Sensitivity	-103dBm
Technology	TDMA
Norms	Europe : EN 300-220 / EN 301-357 USA: FCC Part 15

## Applications

Criminal Investigation, anti-terrorism, drug enforcement, security, negotiations , and voice conference.

# Bluetooth Wireless Earpiece

## Introduction

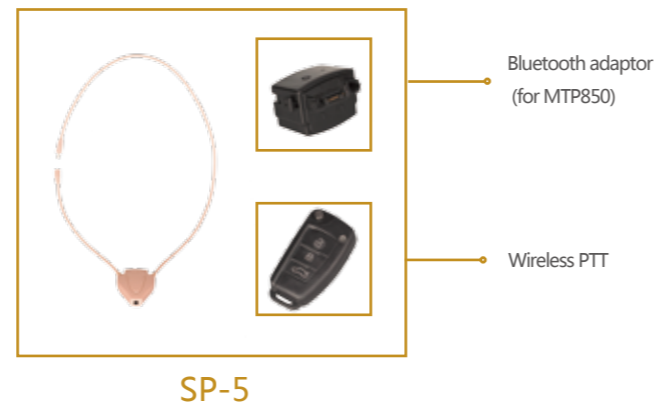
Compared to conventional switching in loopset, QDC Bluetooth Induction Loopset can receive and transmit signals without needing to be connected to communication terminal. It is used with covert earpiece as communication accessories of the terminal, which makes concealed and reliable.

There are totally three types of Bluetooth induction loopsets : LP-5 for mobile Bluetooth, SP-5 for MTP 850 radio, and SP-5G with universal connector for various radios.

LP-5 can answer a call, hang up calls, as well as redial covertly, while SP-5 and SP-5G can send and receive sound voice also in a hidden way.



## Category



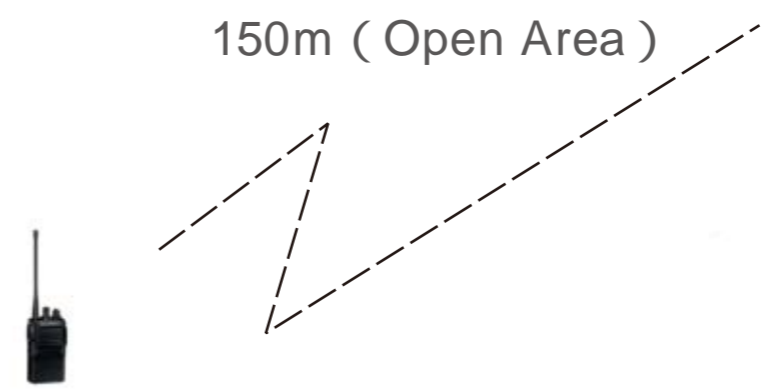
## Components

- LP-5 wireless Covert Earpiece System :  
Covert Earpiece + Lp-5 Bluetooth Induction Loopset
- SP-5 Wireless Covert Earpiece System :  
Covert Earpiece + SP-5 Bluetooth Induction Loopset + Bluetooth Adaptor + Wireless PTT
- SP-5G Wireless Covert Earpiece System :  
Covert Earpiece + SP-5G Bluetooth Induction Loopset + Universal Bluetooth Adaptor + Wireless PTT

# RemotEar Micro FM Receiver Earpiece

## Introduction

RemotEar(0701), the smallest wireless micro fixed frequency narrow band FM receiver, hiding completely in the ear canal, receives radio signal directly without any other accessory. It initiates a brand new one-way communication mode, with its ergonomics design, small shape, widely used, especially for the situation that requires free movement and covertly acquiring information.



RemotEar receives radio signals directly without any other accessories if its frequency is consistent with radio. RemotEar has kinds of applications such as anti-terrorism trial, negotiation, guiding, etc.

## Features

- Simple in-ear shape and its height conforms to ergonomics design, ensures comfortable, concealing and reliable
- Without accessories, transmitter launching, earpiece receiving directly
- New generation audio processing chip auto noise reduction system makes communication much clearer
- Small shape, ergonomics in-ear shape design
- Repeatedly writing frequency, single frequency or multi frequency, without configuration
- High sensitivity, clear sound

## FreshEar Covert Earpiece



**FreshEar** Digital Filtering Zero Noise Covert Earpiece ( NO.:0601A ) designed for covert operations bases on magnetic induction and the latest state-of-the-art DSP system with 4 Microprocessors and accelerator. Ultra invisibility is easy for concealing. Digital filtering zero noise technique is totally immune to electromagnetic interference. It ensures that users will not miss any instruction in a variety of complex electromagnetic environment. The covert communication earpiece especially suits for critical covert tasks, such as surveillance, close and VIP protection and special operations. It can be widely used in criminal investigation, public security, counter-narcotics, national security, anti-evil, special police, and other law enforcement agencies.

### Features

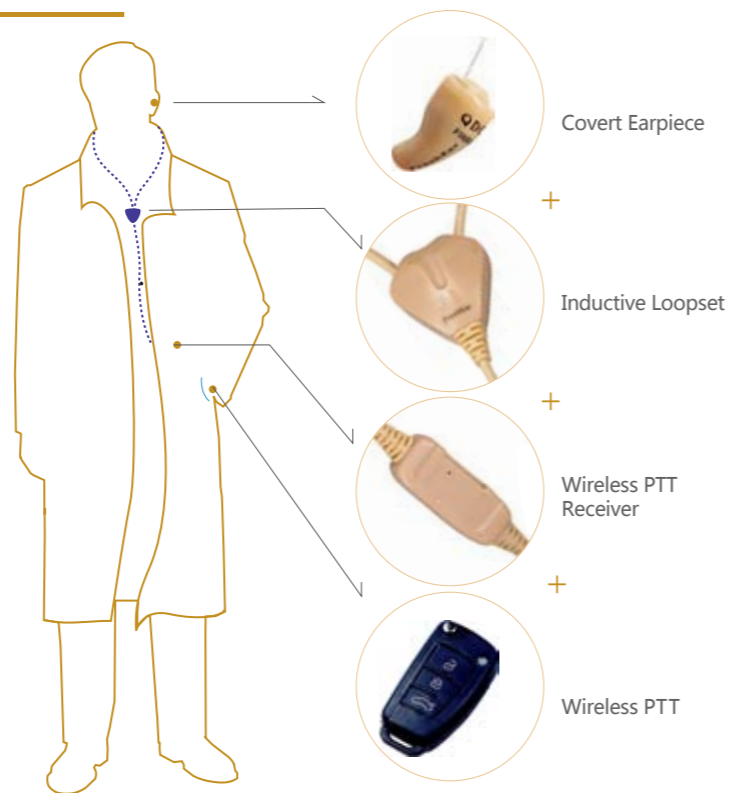
- Beige color designed to integrate into the crowd
- Wireless PTT with car remote control shape
- Digital filtering zero noise technique
- Intelligent noise reduction, high quality voice
- Ergonomic design
- Intelligent volume control
- Low power warning
- NFMI ((Near Field Magnetic Induction) wireless PTT
- Self separation unit
- Compatible with various radios
- Wireless PTT complies with IP67 standard

System consists of : Earpiece + Adaptor + Wireless PTT

The adaptor has three solutions for customer to choose:  
Integrated Loopset / Integrated Bag / Integrated Sash



### Components



## Earpiece Classification

Picture				
Number	0601A ( FreshEar )	0501	0401	0301
Type	Modulation&Digital Filtering	Electret/DSP Digital	Electret/Analog	Electret/Analog
Size	5*10*15mm	5*10*15mm	5*10*15mm	3*7.8*13.5mm
Max Volume Output @ 3Khz	105dB	110dB	105dB	100dB
Noise Filtering Mode	Soft Squelch	Soft Squelch	Hard Squelch	————
Battery Type	A10	A10	A10	416
Battery Life	80h	100h	100h	6h
Weight(Incl. Battery)	1.3g	1.3g	1.1g	0.8g

### Applications

1. Detection
2. Anti-Terrorist
3. Security
4. Drug Enforcement
5. Anti-Evil
6. Law Enforcement

QDC focuses on meeting the special requirements of critical missions. As a leading corporation in micro-communication, with high quality and concealment features products, is widely praised by customers.

As the exclusive Safety and Security Products supplier for the 26th Universiade, covert communication earpiece contributes harmonious and safe circumstance for the whole universiade.

