

# QDC Digital Wireless Earpiece for Covert Communication

-Safeguard Safety and Security



Integrated  
Loopset

Wireless PTT

## The advanced Digital Signal Processing (DSP) system is adopted in the QDC Digital Wireless Earpiece for Covert Communication

With the advanced adaptive noise reduction algorithm, this earpiece is able to monitor and automatically identify noise levels in 128 individual bands and thereby efficiently eliminates a wide variety of types of noise and ensures high-fidelity digital sound quality. Users will experience natural speech quality and level.

With state-of-the-art soft squelch algorithm and advance hardware, the electromagnetic interference caused by car ignition systems, power lines and many other electronic devices is eliminated. The squelch system will switch the earpiece to standby status without any audio output when no or weak audio signal is present.

Thanks to its high quality and covertness, this system has been widely used in security guard, crime investigation, anti-smuggling, drug control, anti-terrorism and other agencies across the world. Personnel in these agencies are threatened with injury or death during their missions. QDC covert earpiece not only safeguards these operators, but also improves the combat capability of the team.



# Technical Specifications

## System

- Digital Wireless Earpiece for Covert Communication
- Inductive Loopset
- Wireless PTT

## Earpiece

Max. Volume Output	110dBSPL @ 3kHz
Frequency Response	300Hz-3,600Hz
Signal Processing Mode	DSP
Noise Reduction Mode	Soft suppression
Battery Type	ZnQ2 A10
Battery Operating Time	100hrs
Low Battery Alert	Beep
SNR(Signal to Noise)	>45dB
Storage Temperature	-20°C - 70°C
Operating Temperature	0°C - 40°C
Dimensions	5x10x15(mm)
weight	1.3g
Color	Beige
Standards	CE/RoHS certified



## Integrated Loopset

Color	Beige
Impedance	≥40 Ω (300Hz - 1kHz ) ≥130 Ω (> 5kHz )
Length	65cm
Max. Input Signal	3.5Vrms
Power Supply	Dual power supply (from radio or battery)
Voltage	3.3V - 10V

## Microphone

Type	Omni Directional, Electret
Impedance	4.4K Ω @ 1kHz
Frequency Response	100Hz – 10kHz
Sensitivity	-53.0±2dB@1kHz (dB for 1.0V/0.1Pa)
Max Current Output	50μA
Voltage	1.5V - 10V
Operating Temperature	-10°C- 60°C

## Wireless PTT

Technology	NFMI
Battery Type	CR2450
Battery Operating Time	> 1 year
Operating Range	60cm-150cm
Volume Control	6 steps
PTT Button Service Life	>100,000 times
Low Battery Alert	LED
Pairing Method	Manual operation
Waterproof	IP67

