FCS PICKUP AND NOISEREDUCTION COMTAC HEADSET





High endurance



Multi-mode switch



SEO



26dB noise reduction



360° pickup system



Hearing protection

Falco Communications System



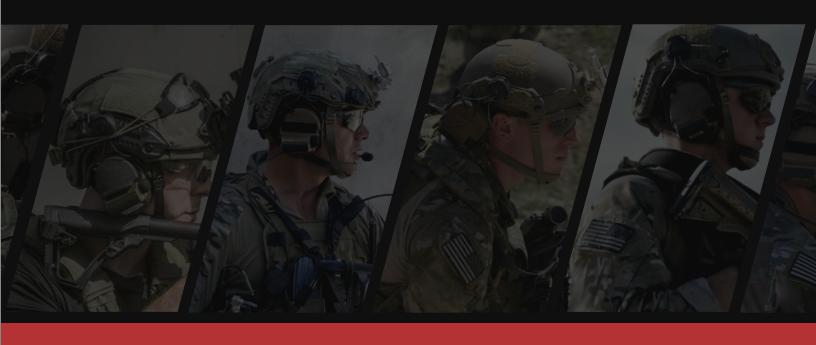
Pickup and Noise Reduction Comtac Headset

Product Introduction

FCS headset adopts the self-developed True Sound Field Situation (TSFS) panoramic sound real-world sound processing technology. After worn by the user, it can effectively enhance the auditory judgment of the sound environment situation on the scene, such as some common sound features, and carry out enhancement, enhancement or attenuation processing (footsteps, gunfire, explosive sound). After various tests and actual combat tests, the user is allowed to obtain more acute and faster tactical responses. FCS headset have good compatibility. PTT can be adapted to various radio stations with different interfaces.

Features:

- 1. Through active anti-noise design, the user's hearing is protected from damage and injury, and the comfort of the user's hearing in harsh noise environment is improved.
- 2. Communication function, based on the advantages of active anti-noise design, can provide clear communication sound listening and picking effects from various communication systems.
- 3. It has the intelligent filtering function of complex environmental sound, and can intelligently and automatically select to make normal environmental sound enter the user's auditory system. It can avoid any auditory blockage caused by the active anti-noise system, and enhance the vigilance and response of soldiers in any tactical environment due to the enhancement of sound.
- 4. It has multi-mode switch function so that the corresponding response mode can be selected according to the different user environment.
- 5. As one of the accessories of communication products, it deeply considers the electromagnetic compatibility standards of EMI and EMC related industries in circuit design, which can effectively avoid electromagnetic interference.
- 6. Various kinds of low power consumption components are matched together, with ultra-low power consumption, so that users can use it for a long time.





- Head beam
- Extension-type adjustment makes the headset fitter
- TSFS pickup system
- Microphone
- **+**[VOL+]
- **-**[VOL-]
- AAA (No. 7) battery compartment
- Installation position of microphone
- U-174/U plug



PANORAMIC SOUND REAL-WORLD SOUND PROCESSING TECHNOLOGY

With no dead angle within 360°, automatic amplification of subtle sound, automatic adjustment to certain specific sound and provision of more details, it is suitable for tactical judgment



Mode introduction

Indoor mode	In shooting gallery or indoor confined space environment, reflected noise is further eliminated
Outdoor mode	In the open space designed outdoors, short pulse noise is eliminated
Monitor mode	In extremely quiet environment, the ambient sound can be amplified several times, and long-distance radio and subtle sound amplification can be used to enhance hearing.

26DB NOISE REDUCTION

NOISE REDUCTION RATE NNR: 26DB(H:34dB/M:28dB/L:16dB)

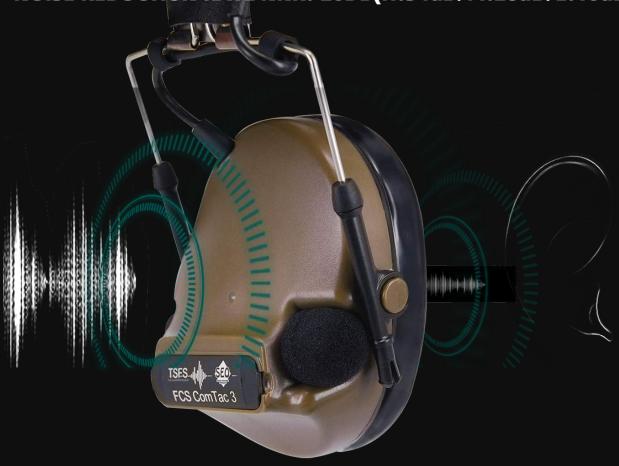


Table of Exponential Frequency Attenuation for Active Noise Reduction System

Attenuation Values for Comtac III ACH								
Frequency(Hz)	125	250	500	1000	2000	4000	8000	
Mean Attenuation(dB)	11.2	16.6	23.5	27.2	30.1	34.8	36.6	
Standard Deviation(dB)	3	3	3	2	2	2	3	
Min Attenuation(dB)	9.3	15.6	25.5	27.4	28.7	33.6	36.9	
NRR	NRR:20dB H:27dB M:20dB L:16dB							

ORIGINAL SEO SHOOTING ENVIRONMENT HEARING PROTECTION OPTIMIZATION TECHNIQUE



HEARING PROTECTION

FULLY AUTOMATIC ELECTRONIC SOUND PRESSURE PROTECTION CRITICAL POINT: ABOUT 85DB AUTOMATICALLY REDUCE HIGH-PRESSURE SOUND TO A REASONABLE SOUND PRESSURE LEVEL AND TRANSMIT IT TO THE AUDITORY SYSTEM (EAR).

Mode introduction

In the process of development, all the tests were carried out in indoor shooting gallery and other high noise application environments, and the data were collected, verified and analyzed. Based on the sound model of sound generation and detonation characteristics in indoor and outdoor environment in actual combat environment, the optimized SEO (shooting environmental optimization) passive sound pressure control and hearing protection technology were specially designed to optimize various indexes and data of hearing protection.

Electronic parts and components	Specifications and parameters					
	Sensitivity: -38dB (±3dB, average of frequencies)					
	Noise reduction value of start: ≈85dB					
Pickup	Supply power: 2 AAA dry batteries					
elements	Pickup characteristic: all-direction					
	Diameter: 27mm					
Loud-	Impedance characteristic: 32 OHM					
speaker	Rated power: 30mW					
element	Frequency response characteristic: full spectrum band					
Microphone	Microphone: electret capacitance microphone					
element	Loudspeaker: Dynamic					
Background noise audio sound	20-15000Hz					
Sound pressure protection	85-95dB					
Product parameters						
Interface	Nato U-174/U plug					
Battery	AAA battery * 2, used for wireless communication. The headset can still work independently without turning on the power supply or when the battery runs out.					
Compatibility	Various US army standard communication models (Such as PRC-148/152, Faclo FCS-148, PELTOR PTT) or general market products					
material	PVC					
Weight	320g					

EX helmet headset holder (EX/WENDY rail) No.: TB997





COMTAC-3



OTH headset buckle and holder (FAST rail) No. TB1292



FG



BK



BK

FG

Helme headset mouth holder (FAST rail)





BTB334 BK

TB347 DE

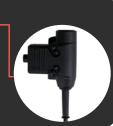
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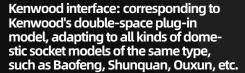
FCS exclusive launch of multi-purpose PTT, adapted to various intercom models:

FES Comtac3 Mu PTT











MTP850, MTH800 series interface: MTP850, MTH800 and other models, all types of the same type socket model.



ICOM/yeasu/alinco interface: adapting to PD780HT1000 JT1000 MTS2000 XTS2500/3000/5000



Hyter interface: adapting to PD780



XTS interface: adapting to HT1000 JT1000 MTS2000 MTS2500/3000/5000

PTT standard version: straight out U-299 /U, suitable for PRC148, PRC152, PRC117G, etc



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