

FCS PRODUCT DESCRIPTION



Dual
channel



Hearing
protection



Hearing protection
technology



26dB
noise reduction



Quick
switch



Pickup
system

DUAL CHANNEL

COMTAC 3

DUALCHANNEL

COMTAC-3

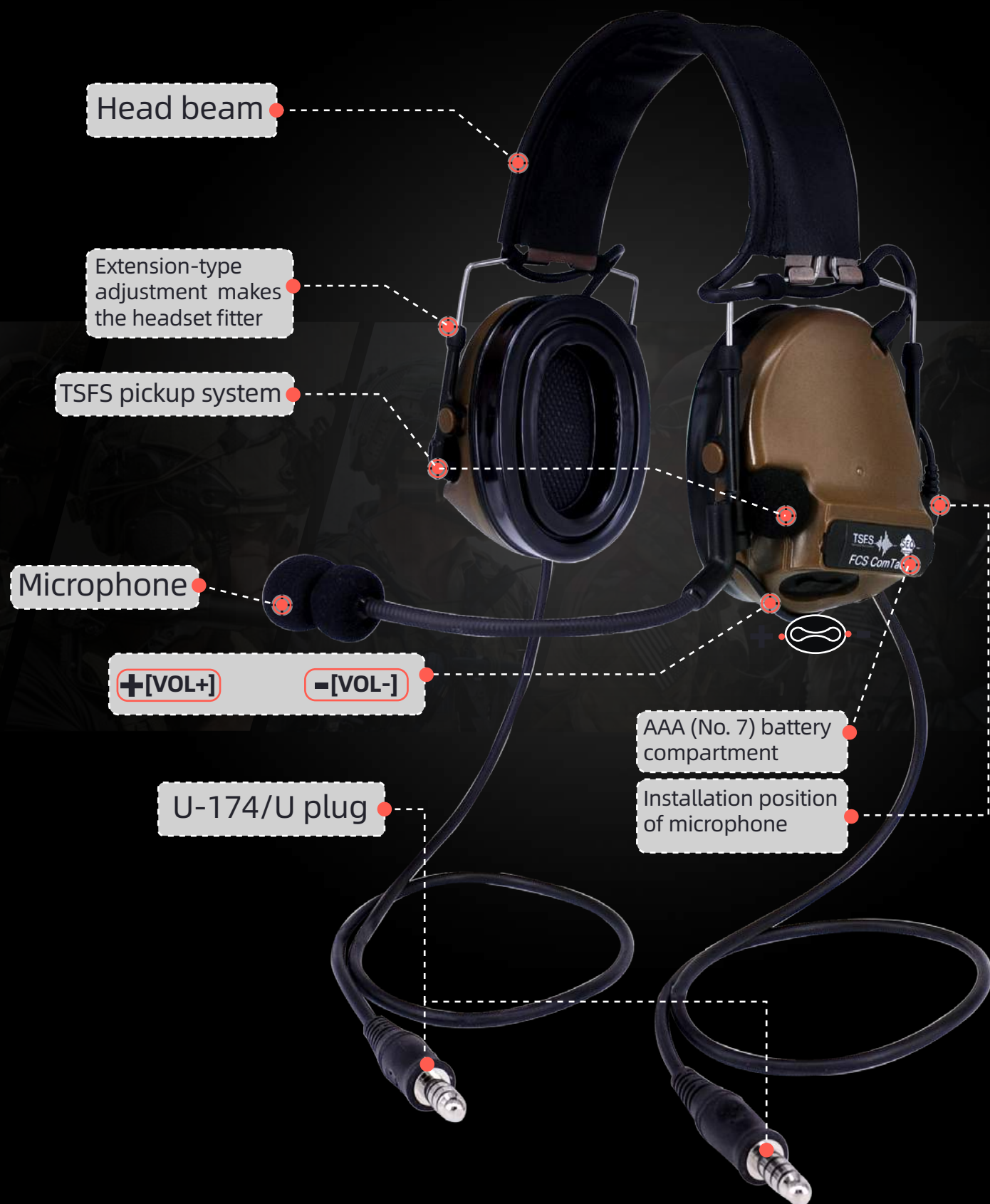
Pickup and Noise Reduction Comtac Headset

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.



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).**

SEO(Shooting environment) Mode introduction

According to the functions developed in indoor shooting range and high noise application environment, based on the functions of collecting, verifying and analyzing data in actual combat environment, SEO (Shooting environmental optimization) passive sound pressure control and hearing protection technology are specially designed and optimized through sound models with sound generation and detonation characteristics inside and outside the room, and various indexes and data of hearing protection are optimized.



DUAL CHANNEL

**NEW DUAL-LINE DUAL-PASS DESIGN
TWO INTERCOMS CAN BE CONNECTED VIA PTT**



FG



DE



BK

Electronic parts and components		Specifications and parameters	
Pickup elements		Sensitivity: -38dB (±3dB, average of frequencies)	
		Noise reduction value of start: ≈85dB	
		Supply power: 2 AAA dry batteries	
		Pickup characteristic: all-direction	
		Diameter: 27mm	
Loud-speaker element		Impedance characteristic: 32 OHM	
		Rated power: 30mW	
		Frequency response characteristic: full spectrum band	
Microphone element		Microphone: electret capacitance microphone	
		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		390g	



FCS

Falco Communications System