



Product Features



TACTICAL COMMUNICATION HEADSET



26dB Noise Reduction



TSFS Pickup System



Dual Channel



Anti-Electromagnetic Interference Design

SE₀

Auditory Protection



High Battery Life



Switching Between MultipleScene Modes



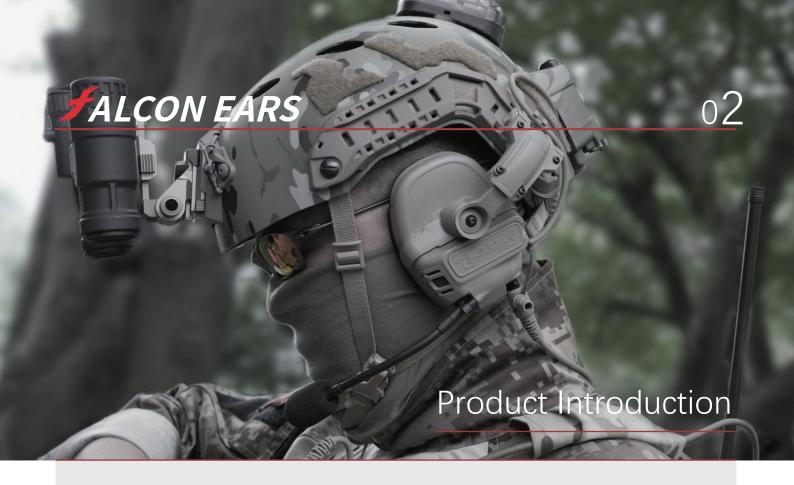
Dual DSP Chips



Chinese/English /Other Languages



Quick Release Design



The FCS FE Tactical Communication Headset utilizes FCS's independently developed TSFS (True Sound Field Situation) panoramic sound real-world sound processing technology. Through a new DSP adaptive audio signal processing, users can effectively enhance their situational awareness of the surrounding sound environment after wearing the earphones. It features a powerful audio characteristic database, selectively enhancing or attenuating common sound characteristics (such as drone noises, footsteps, gunfire, explosions, etc.). After undergoing rigorous multi-faceted testing and real-world validations, it can protect users' hearing and achieve a more sensitive and faster tactical response.

- 1. Physical Sound Insulation + FCS DSP Chip Dual Noise Reduction Technology: Fearless of explosive sound, stronger noise reduction effect.
- 2. High-Fidelity Stereo Sound Effects:The sound cavity adopts large-diameter 30/40mm high-quality speakers + honeycomb structure, making the sound clearer and more pleasant (requires use with FCS Bluetooth adapter).
- 3. Overall Circuit EMI EMC Optimization Design: Resistant to complex wireless signal impacts and electromagnetic signal crosstalk, fearless of communication interference.
 - 4. 360° Sound Localization: Accurate positioning, clearer and more realistic sound pickup.
- 5. Multiple Wearing Methods: Wider compatibility, adaptable to FAST helmets, WENDY helmets, high-cut earmuff helmets, rescue helmets, etc.
- 6. Sound-Insulating Skin-Friendly Ear Pads: Made of high-molecular material, sound-insulating and comfortable, comfortable to wear for long periods without pressure pain.
- 7. High-Quality Composite Material Structure:Resilient, impact-resistant, suitable for all kinds of harsh environments.
- 8. Single-Line Dual-Channel Communication: The FE earphones employ a dual-communication link technology, suitable for commanders to simultaneously equip two radios for command and combat operations, resolving the comprehensive command and dispatching issues
- 9. Detachable microphone, interchangeable between left and right sides, adaptable to your usage habits.



True Sound Field Situation Technology

360° Surround Sound with automatic amplification of subtle sounds, providing enhanced detail for certain sounds, ideal for tactical judgment.

Eavesdropping Mode

Adaptive Intelligent Noise Reduction Mode

In accordance with different spatial environments, intelligently recognize scenes and select noise reduction modes. In indoor shooting ranges or enclosed spaces, further eliminate emission noise. In outdoor shooting ranges or open-air environments, eliminate short-lived impulse noise.

Monitoring Mode

In quiet or nighttime environments, the headphones can pick up faint sounds from a distance and amplify them several times to enhance hearing. (The monitoring mode will automatically turn off after 15 seconds of activation)

Product Brochure of Sound Pickup and Noise Reduction Tactical Communication Headset

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Noise Reduction

NRR(Noise Reduction Rating): FE STD (30mm)

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Average attenuation(dB)	8.12	16.82	24.66	24.77	33.5	37.53	35.14
Standard Deviation (dB)	0.11	0.75	0.21	0.06	0.08	2.34	0.95
Minimum attenuation (dB)	8.01	16.07	24.45	24.71	33.42	35.19	34.19
NRR(dB)	26						

NRR(Noise Reduction Rating) : FE PRO (40mm)

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Average attenuation(dB)	6.5	17.05	19.51	18.17	26.05	35.4	32.27
Standard Deviation (dB)	0.11	0.75	0.21	0.06	0.08	2.34	0.95
Minimum attenuation (dB)	6.39	16.3	19.3	18.11	25.97	33.06	31.77
NRR(dB)	24						





Product Brochure of Sound Pickup and Noise Reduction Tactical Communication Headset

developed to enhance various indicators and data related

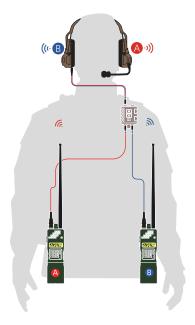
to auditory protection.

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PTT Communication Connection Illustration

By pairing different PTT devices, both single-cable dual communication and single-cable single communication can be achieved to facilitate communication.



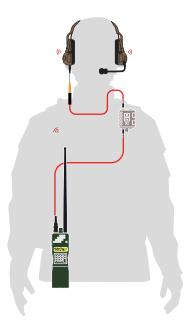
Single-cable Dual Communication

Connect FCS V60PTT to achieve single-cable dual communication, connecting two radios for communication.



PTT Connection Options

PTT: FCS V60 PTT
FCS DUAL PTT
Upper Output Cable: KN6 Connector Cable
Lower Output Line: Custom KN6 to Various Radio Downleads Cable



Single-cable Single Communication

Connect FCS V60PTT to achieve single-cable single communication, connecting to the radio for communication.



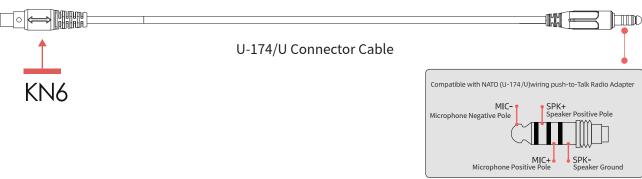
PTT Connection Options

PTT: FCS V60 PTT, FCS V20 PTT, FCS DUAL PTT Upper Output Cable: U174/U to KN6 Connector Cable Lower Output Line: Custom KN6 to Various Radio Downleads Cable



Appearance Introduction





QUICK CHANGE



QUICK-RELEASE HEADBAND DESIGN

Utilizing a quick-release design, enables rapid switching between wearing modes without the need for cumbersome disassembly and installation, allowing for easy transition between headband and helmet-mounted configurations in a short period of time.





Standard Equipment List



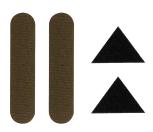
FALCON EARS



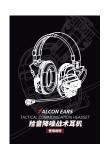
U-174/U Connection Cable



Helmet Rail Connector Bridge



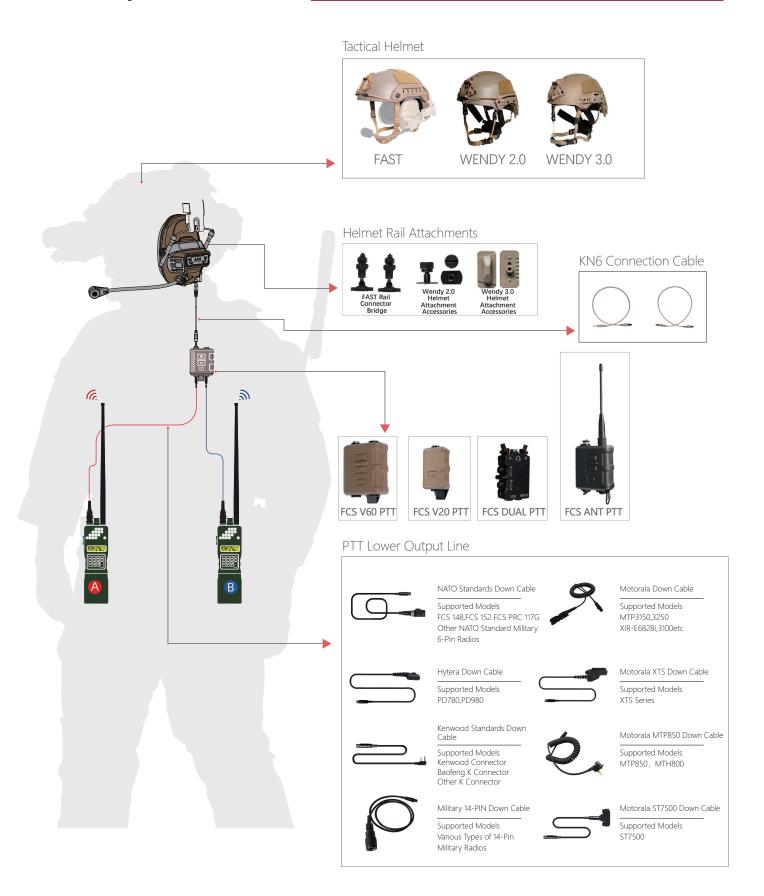
Helmet Velcro



Product Manual



Assembly Instructions





Color Options



Recommended Options



FCS V60 PTT



FCS V20PTT



FCS DUAL PTT



Product Specifications

	FE30 Standard Edition	High Fidelity FE40 PRO Edition	
Mounting Method	Helmet / Headband / Neckband	Helmet / Headband / Neckband	
Pickup Mode Switching	Standard Mode (Indoor/Outdoor)	Standard Mode (Indoor/Outdoor)	
Pickup Method	Omnidirectional	Omnidirectional	
Weight	≈385g (Net Weight)	≈385g (Net Weight)	
Package Size	24.5cm X 14.3cm X 11cm	24.5cm X 14.3cm X 11cm	
Number of Audio Input Channels	Single-cable Dual Channel	Dual-cable Dual Channel	
Noise Reduction Rating (NRR)	26dB	24dB	
Hearing Protection	≤82dB	≤82dB	
Battery	Two 1.5V AAA batteries	Two 1.5V AAA batteries	
Usage Time	50-70 hours	40-60 hours	
Microphone	Condenser (2K)	Condenser (2K)	
Speaker	30mm/32 Ohms	40mm/32 Ohms	
Frequency Response	300-8000hz	63-16000hz	
Sensitivity	-38dB (±2dB, average across frequencies)	-38dB (±2dB, average across frequencies)	
Impedance Characteristics	32 Ω	32 Ω	
Communication Microphone	Condenser/Dynamic	Condenser/Dynamic	
Material	Composite Material	Composite Material	
Compatible	NATO military radio standards, using FCS or NATO standard dual-channel PTT and cables, allowing simultaneous control of two radios for communication.		

