



# Simulator Telecommunication Helmets

Simulation Demands Realism.

## So Does Communication.

W5 develops simulator telecommunication helmets that can be adapted to replicate customer-specified helmet designs. Built for realistic training environments, they combine familiar fit and appearance with configurable communication interfaces, passive noise attenuation, and long-session comfort.

PRODUCT AREA SIMULATION



## SIMULATOR COMMUNICATION

# Built for realistic crew communication in simulator training environments.

The Simulator Telecommunication Helmets gives trainees a familiar crew communication setup inside controlled training systems.

The helmet supports intercom and radio communication while preserving the visual appearance, fit, and operating feel of your helmets.



## Training-Ready by Design

- Non-ballistic replicas based on customer-specified helmet designs.
- Visual, fit, and interface adaptation for platform-specific training.
- Supports internal communication, radio communication, and intercom integration.
- Configurable boom microphone, throat microphone, PTT, cable, and connector options.
- Replaceable liners, headset components, and accessories for shared-use environments.

Developed for military simulator and training platforms, the helmet can be adapted to different intercom, radio, and vehicle simulation architectures. Modular headset components, replaceable accessories, and integrated cabling support recurring instructor-led training and operational rehearsal environments.

# Engineered for realistic training communication

Built around audio clarity, long-session comfort, and modular integration, the Simulator Telecommunication Helmets supports reliable crew communication across military simulator and training environments.



## Communication Realism

Supports internal and radio communication in simulator environments, helping trainees work with familiar crew communication routines during vehicle simulation, mission rehearsal, and instructor-led exercises.



## Modular Integration

Designed with a configurable communication architecture for integration with simulator intercoms, radio interfaces, PTT functions, microphone options, cabling, and connector solutions.



## Long-Session Comfort

Lightweight construction, adjustable fit, memory foam ear cushions, and an ergonomic helmet liner support extended use during recurring simulator training sessions.



## Passive Noise Attenuation

Integrated hearing protection and sealed ear cushions help reduce surrounding noise while maintaining clear audio for crew communication and instructor interaction.



## Maintenance & Hygiene

Washable liner components and replaceable accessories support shared-use training environments, simplified cleaning, and sustained availability.

FOR SIMULATOR USE  
ONLY



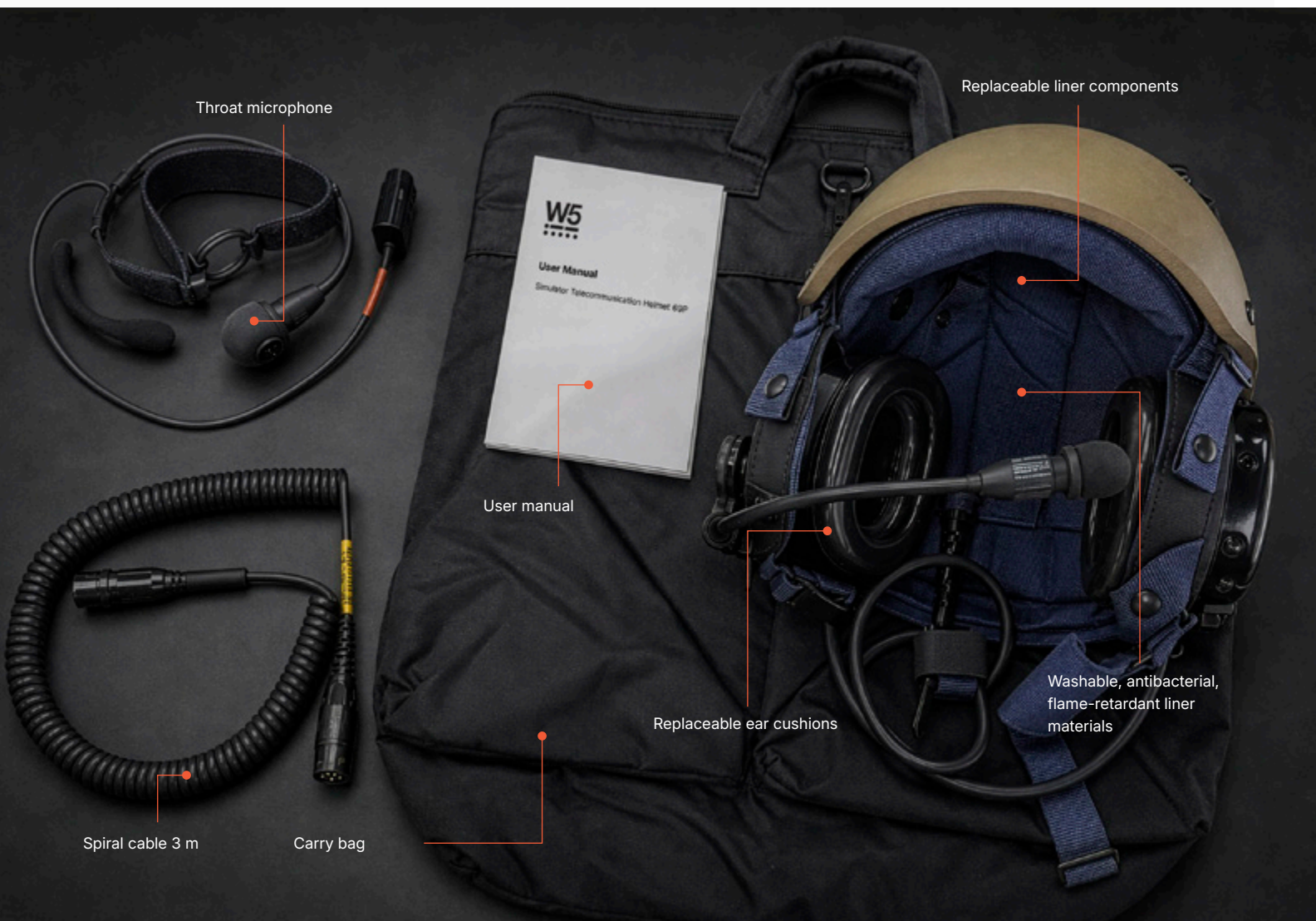
#### **Adapted to Your Helmet Standard**

Across defence and security users, helmet requirements vary by country, service, platform, and mission role. W5's simulator helmet approach is designed to replicate customer-specific helmet designs rather than force training users into a single standard model.

Specifications, fit, appearance, liner configuration, and communication interfaces can be adapted to customer requirements and integration needs.

*Replaceable liner components can be adapted for headset fit, hygiene, and customer-specific helmet geometry.*

## HELMET SYSTEM & ACCESSORIES



# Enhancing Readiness Through Advanced Simulation Systems

Our simulation systems are designed to deliver immersive, realistic experiences, offering unparalleled support for critical defence and security applications. By recreating authentic operational conditions, these systems ensure personnel are equipped to handle the complexities of modern missions.

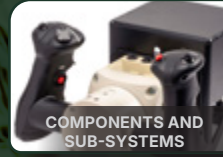
Realistic controls, displays, and training environments help operators develop the reflexes, coordination, and decision-making needed for complex missions.



## Training-Ready by Design

- Precision simulator handles, joysticks, panels, sights, and periscopes.
- Seat replicas and crew stations built to mirror operational platforms.
- Control loading and motion systems for realistic physical feedback.
- Complete I/O systems with field bus integration.
- Instructor Operating Stations for supervision, scenario control, and review.





## Integrated Simulation Solutions

We design and deliver complete simulation systems and specialist sub-systems for defence, security, and civilian training. Our solutions combine realistic hardware, reliable integration, and adaptable system architecture to support effective, repeatable training.

- Complete systems – Immersive training environments for operational readiness.
- Controls and interfaces – Handles, joysticks, panels, displays, sights, and periscopes.
- Dynamic feedback – Motion and control loading systems for physical realism.
- Training equipment – Dummy ammunition, loading trainers, and platform replicas.
- Integration – I/O systems, hardware emulators, communication systems, and IOS.

Through development, production, delivery, integration, service, and mid-life upgrades, W5 supports simulation solutions across the full system lifecycle.



## Full in-house engineering capability

We develop new systems and adapt existing solutions to meet specific operational and training requirements.

We integrate simulation systems into vehicles, containers, shelters, and training facilities

– all designed and manufactured by W5.

# Specifications

GENERAL	
PRODUCT TYPE:	Simulator telecommunication helmet system
REFERENCE DESIGN:	Adapted to customer-specified helmet geometry and training requirements
FUNCTION:	Simulator communication, intercom integration, radio interface, crew communication training
OPERATING ENVIRONMENT:	Military simulator and training environments
APPLICATIONS:	Vehicle simulators, mission rehearsal systems, communication training, instructor-led exercises
COMMUNICATION SYSTEM	
AUDIO INTERFACE:	Configurable intercom and radio interface
MICROPHONE OPTIONS:	Boom microphone, throat microphone, customer-specific options
PUSH-TO-TALK:	Optional integrated or external PTT support
CONNECTOR INTERFACE:	Spiral cable interface, configurable connector solution
SYSTEM COMPATIBILITY:	Designed for integration with customer-specified simulator communication systems, including Swedish system interfaces such as BTA123, FTA123, CSV9040D, and other simulator intercom environments.
AUDIO & HEARING PROTECTION	
AUDIO RANGE:	20 Hz to 20 kHz
NOISE REDUCTION:	Passive noise attenuation
EAR CUSHIONS:	Memory foam ear cushions
HEARING PROTECTION:	Integrated hearing protection system
PHYSICAL PROPERTIES	
CONSTRUCTION:	Lightweight non-ballistic simulator replica
SIZES:	Small/Medium and Large/Extra Large
WEIGHT:	Maximum 1.5 kg
HELMET LINER:	Washable, antibacterial, flame-retardant materials
FIT SYSTEM:	Adjustable liner, chin strap, and headset positioning
MAINTENANCE & HYGIENE	
LINER:	Removable and washable textile liner
ACCESSORIES:	Replaceable headset and liner components
CLEANING:	Designed for shared-use simulator training environments
AVAILABILITY:	Replaceable components support sustained training availability
CONFIGURATION	
MODULAR PLATFORM:	Configurable for customer-specific helmet designs and communication architectures
CABLE ROUTING:	Integrated cabling and connector solutions
UPGRADEABILITY:	Prepared for future technology adaptations