INCIDENT RESPONSE INTERACTIVE SIMULATION

Redefine Proficiency in Emergency Management

LEADING-EDGE
SIMULATION
TRAINING

Today's public safety and security officers operate in increasingly challenging environments. With urgent response times and heightened public expectations it is crucial for them to stay focused under pressure. This is when training kicks in, enabling them to make tough decisions, execute them with cool-headedness to save lives and properties.

The Incident Response Interactive Simulation (IRIS) offers a suite of products that trains officers to respond appropriately and effectively in an evolving incident or situation. Catering to diverse users ranging from frontline officers to commanders, our simulation solutions are capable of addressing targeted training needs.

IRIS
PRODUCT SUITE

IRIS FRONTLINE

• Frontline officers
• First responder training

IRIS COMMAND

• Command and Operations
  Centre officers
• Procedural and decision-
  making training

IRIS PLAN

• Commanders
• Contingency response and
  operations planning

IRIS FRONTLINE

IRIS Frontline is a series of training solutions that equip frontline officers with the skills to respond effectively and proficiently to incidents they will encounter.

Judgemental Training

Our judgemental training solutions harness the latest Virtual Reality (VR) technologies for use-of-force and firearms training in a safe, immersive and realistic environment.

Use-of-Force Trainer

- Trains officers to make judgements on use-of-force (gun, taser or baton)
- Rehearse procedures to de-escalate situations
- Deployable and portable VR display systems

Firearms Trainer

- Hones shooting accuracy
- Trains officers' judgement skills in threatening situations
- Dedicated training space with VR display and laser system

Skills Training

Our skills trainers focus on developing skillsets in shooting accuracy, interview and interrogation techniques as well as identification of suspected items.

Smart Shooting Range

- Smart targetry system with training analytics
- Analyses location of shots to eye point to improve shooting techniques

Interview and Interrogation Techniques Trainer

- Use of avatars for interview of subjects to gather relevant facts and information through effective questioning
- Automated scoring of training sessions to provide feedback to trainees

Fire-Fighting Response Trainer

- Hone fire-fighting skills
- Simulated 3D virtual environment designed for fire rescue operations
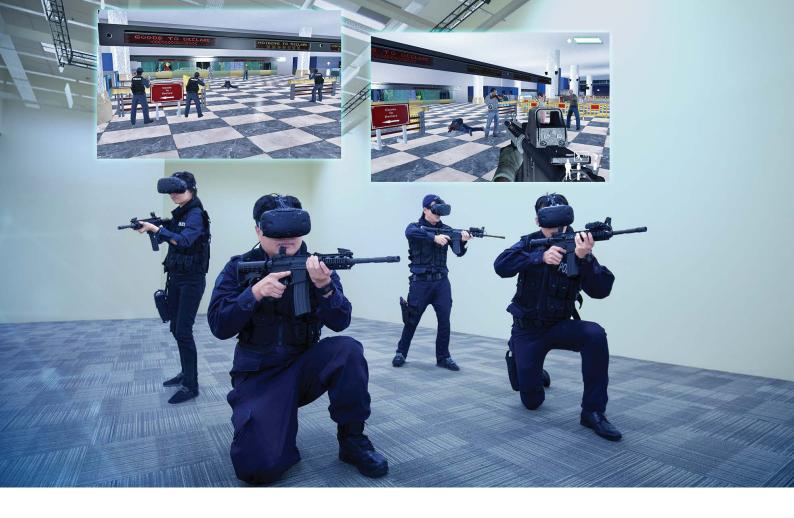- Configurable training scenarios

Procedural Trainer

- Replicates real locations and equipment
- Guided and unguided modes
- Training analytics to assess performance

Applications

- Train officers in investigative procedures, identification and handling of suspicious items
- Operations familiarisation
- Virtual orientation to facilities

Team Trainers

The IRIS tactical team trainer offers integrated training for the commander and frontline officers. Designed as an interactive networked VR system, our team trainer accommodates multiple players for role-playing, enabling savings in time and resource deployment typically required for live training.

Features

- Networked simulation for multi-users in a common virtual environment
- All weather and environment simulation
- Human and crowd simulation
- Real-Time Scenario Editor
- Post-exercise debriefing system

Deployment Options

Fully Immersive VR Trainer

Virtual Desktop Trainers

Training Applications

IRIS Frontline caters to both land and maritime tactical operations for individual trainees and team units. Applications include rehearsals of tactical operations and drills, familiarisation with the operations area, as well as patrol training.

Trainees will be able to plan, make decisions and respond to the scenarios. Training scenarios are customised to the agencies' requirements and can include:

Patrol & Security Operations

Special Operations

Search & Rescue

IRIS COMMAND

IRIS Command is a networked simulation system that provides procedural and decision-making training for public security officers in a command or operations centre. The simulator helps to improve coordination skills, enhance critical thinking and situational awareness for incident management.

Features

- Multi-player mode for playing of different roles
- Simulation and Command and Control (C2) system integration
- Multi-channel closed-circuit television (CCTV) views including Unmanned Aerial Vehicles (UAV) simulation
- Human behaviour and crowd simulation
- Vehicle traffic simulation
- Over 50 incident injects
- Post-exercise debriefing system

Training Applications

- Situation monitoring, operations planning and command & control of sub-units responding to an incident

IRIS PLAN

IRIS Plan is a collaborative planning, visualisation and simulation tool for commanders to develop robust security plans. IRIS Plan supports the creation of different scenarios, allowing commanders to evaluate response plans for emergencies and contingencies.

The system can be deployed as a desktop trainer or as a Digital Augmented Reality (AR) Sandtable. Leveraging AR technologies, the sandtable presents a virtual 3D view of key installations and buildings, enabling commanders to have a common, accurate picture of the operations area for experiential planning and discussion.

Features

- 2D/3D terrain map and display system
- Scenario Editor
- Human and crowd simulation
- Recording and playback system

Training Applications

- Support re-enactment of incidents
- Explore operation doctrines and standard operating procedures
- Evaluate effectiveness of plans

Our Capabilities

Domain Expertise

With extensive experience in simulation training for varying scales, our training strategists and skilled programmers develop effective and targeted training programmes that cater to diverse needs.

Content Creation & Development

Backed by a team of digital media specialists, realistic training environments and assets are created using 3D modelling and animation for an immersive training experience.
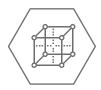

Integration & Deployment

Live and virtual systems are integrated to enable real-time synchronised training across multiple platforms, while computer-generated forces emulate actual activity in the synthetic environment, offering a complete training solution. Our integration expertise extends to Distributed Interactive Simulation (DIS), High-Level Architecture (HLA) and other third-party distributed network simulation protocol.

Training Value

Enhanced Training Effectiveness
Enables multiple iterations of exercises and after action reviews for enhanced performance.

Resource Optimisation
Simulation-based training overcomes the traditional constraints of space and availability of training assets, through resource optimisation.

Cost-efficient
Training is conducted a significantly lower cost while achieving improved outcomes.

Realistic
Offers a safe and immersive virtual training environment, using state-of-the-art simulation technologies as well as augmented and virtual reality.

Tailored
Fully customisable to address current and future training requirements. Designed for expansion to different applications and scenarios, catering to evolving training needs.

Scalable
The system can be easily scaled up to accomodate more trainees and scenarios.

IRIS offers a powerful suite of simulation training solutions for Public Safety and Security Agencies.

IRIS Frontline:
Immersive, first-person simulation training for officers and teams.

IRIS Command:
Realistic procedural and decision-making training platform for command and operations centre officers.

IRIS Plan:
Experiential decision-making tool for evaluation of security and contingency response plans by commanders.

www.stengg.com
trainingsimulation@stengg.com

DOP 0121

www.stengg.com/training-and-simulation