IMX
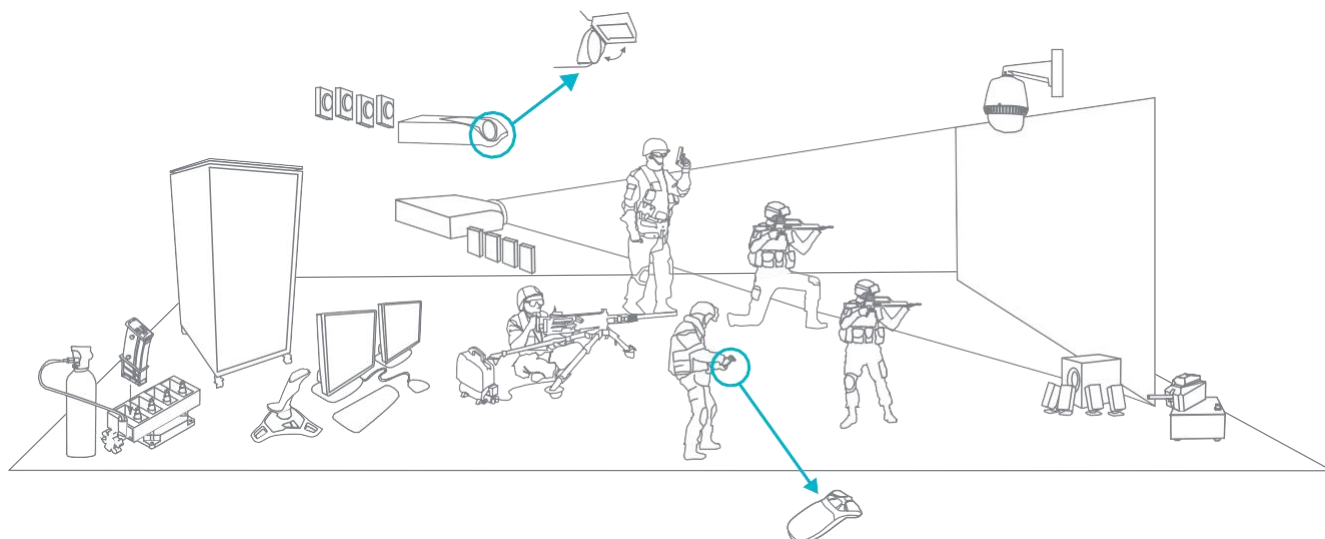
Security System

Indoor Virtual Shooting Range

imagistix.co.za

VIRTUAL SHOOTING RANGE

IMX Virtual Range is designed for controlled environment training and assessment.
A mixture of marksmanship and mental agility training.

Introduction

IMX is a simulator specially designed to improve marksmanship training through a virtual reproduction of a shooting range where all types of parameters such as shot scenarios, shot distance and weather conditions can be set among many other.

The instructor can define and create marksmanship exercises and obtain information for their analysis.

Its versatility allows the implementation of all instructional practices used by any enforcement office; military; police, private security etc.

IMX allows carrying out tactical training individually or in groups. Missions can be created by the instructor in 3D·settings, in which trainees interact with allied, neutral and/or hostile persons projected on the screen —with complete freedom of movement and many ways to reach the targets.

System Features

- Tactical exercises with scenarios and mission management
- Equipment, designed for continuous and lasting use
- Capability to plan courses and manage simulator users
- High·resolution projection system
- **Customisable scenarios as per client requests**
- Surround sound provides "total immersion" to the trainee, to include possible threat locations
- Capability of live round shooting within indoor shooting ranges.
- Hostile fire device controlled by the instructor
- Recording and playback system which monitors both the trainee and simulated exercise
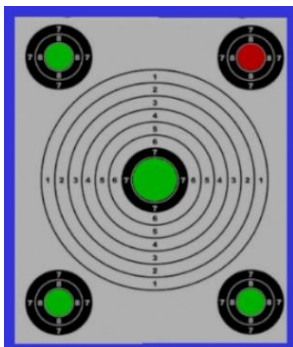
Weapons Used: IR Laser and Live Rounds

IMX support both live rounds and IR laser rounds.

There is a wide choice of weapons can be installed within the IR laser categories for handgun and rifles: Vektor, Berettas, Glock, CZ amongst many. As well as rifles, light and heavy machine guns, among others.

Once installed in the weapon, the system works completely independently without connecting to external devices, including in the magazine a compressed· air rechargeable component, to simulate recoil.
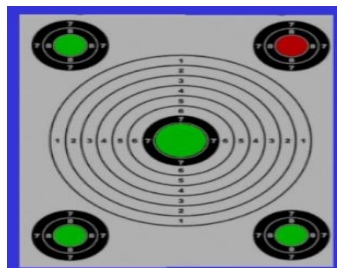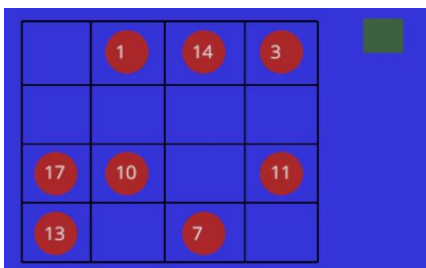
Shooting Scenarios

IMX has several virtual shooting ranges with different dimensions and features including multilane shooting for simultaneous shooting.

The instructor can vary weather conditions as well as the target type, distance, movement types and speed and wind direction, among many other parameters.

Our scenarios are categorized by Static Target (marksmanship training), Static Responsive (static but relocating targets), Moving Target and 3D tactical scenarios.

Mental Agility Excersices

Mental Agility Exercises is designed to train a shooters reaction and response time in difficult and challenging situations.

Shooters must not only focus on marksmanship but also hitting the right target at the right time. Shooters are trained to consider many factors that occur in the real combat situations.

IMX VIRTUAL RANGE

Intelligent Environment

Maps. IMX offers the instructor detailed maps and information regarding all the settings, allowing precise monitoring as the exercise unfold

Group Training. IMX allows Group training including UAV, support, tanks, heavy artillery support and mortars.

HUBSCOREX

Database IMX has several scenarios related to police, military, private security training. Instructors can change background, difficulty and intensity levels.
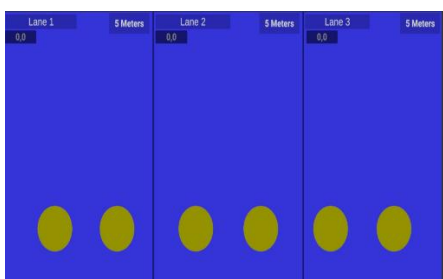

New exercises generator The simulator has a setup tool with an intuitive user interface which allows the instructor to design, generate and /or modify tactical exercises.

Artificial intelligence IMX has a virtual instructor (VIGIL) on Hubscore, our online portal.
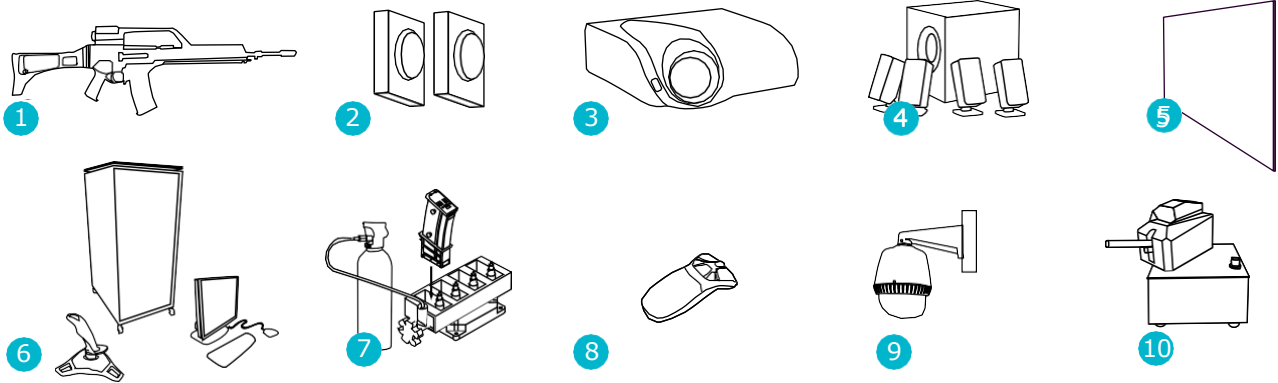
Assailants, combatants, insurgents are powered by AI making them unpredictable.

Shooter Tracking IMX allows for the tracking of shooters vitals. If a shooter panics, is nervous or hesitates, you can track the shooters vitals and see if they are adjusting as the scenario continues.

IMX VIRTUAL RANGE

Components

1 Simulated system for real weapons: Without external connections.

2 Shot detection system: Detects all impacts

3 Projection system: Cutting-edge technology

4 Audio system: 3D-surround digital sound system

5 Projection screen: large-format flat screen

6 Instructor operating station: Commercial computer with an easy-to-use and customized interface. It also allows the instructor to manage the shooter's point of view throughout the scenario.

7 Refill system of cannisters: Capacity to simultaneously fill magazines with CO_2.

8 3D-Mouse (optional): Individual movement system through the scenarios

9 Recording and reproduction system (optional): Records the trainees during exercises

10 VIGIL (optional): AI instructor that analyses, summarises and recommends improvements, tactics and scenarios for novice to advanced shooters.

Benefits

Safety. No real ammunition is used with IR Virtual Range so accidents are avoided.

No real-weapon modification necessary. The simulation system is installed in the unmodified weapon, making logistics easier and reducing maintenance costs.

Costs Costs derive from weapons ammunition and logistics are minimized.

Experience. IMX has a wide technical experience in security and armed forces training.

Detailed evaluation Evaluation parameters such as reaction time, speed of response and correctness of the response are increased.

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