



SECURITY
DEFENSE
INTELLIGENCE

Virtual Shooting Range Training Systems





INDOOR SHOOTING RANGE SYSTEM

Product Requirements

Effective police and law enforcement training needs to address the many occurrences that may be encountered on the street. SIDCOM , presents the user with a unique solution based on interactive ultimate virtual reality software technology. The solution, which is in development, will be comprehensive of a variety of relevant, full immersive, customizable scenarios ranging from multi-vehicle road accidents, active shooters, terrorist and hostage events, crowd and riot situations, fires, etc., and many other security operations issues.

With our system adoption Police and law enforcement personnel will train for many situations, including:

- Apply basic standard operating procedures in order to enhance weapon handling and firing skills of personnel (indoor shooting range system).
- Practice for mass crowd events.
- Planning and preparation for riot control operations prior to expected incidents.
- How to handle brutal scenes.
- Fast driving course to develop the potential for rescue operation, in accordance with the external environment and the enhancement of defensive driving skills.
- Plan, rehearse and train according to their individual training objectives.

Our training system will support the entire course of critical situation management with a step-by-step incremental approach. Recently we decided to develop, as a first step, the **indoor shooting range system** in order to obtain immediate opportunities coming from our Polizia di Stato - Italian National Police.



This system, really cost-effective, provides an incredible saving of money in basic training (less ammunition, less movement of staff, ease of management, etc..). Moreover, it allows training staff to work in a complete safety condition.

The virtual system **can not be intended** to completely replace standard training in using firearms in outdoor shooting range, but it is certainly a great help to contain the costs of personnel training. Furthermore ,the system allows you to replicate critical situations that actually occur rarely .

Our virtual reality system that is currently in use at Accademia della Polizia di Stato - Italian National Police Academy, in Nettuno (Roma), has been designed and developed to train operators to shoot and manipulate small arms when in critical situations, in order to check operators' capabilities to adopt correct decision-making procedures, to make optimal use of new technological equipment and to overcome psychological barriers.

Our system is composed of high-end simulation PCs, whose main functions are execution of the main software module, rendering of environment (scenes, sounds, etc.) and control of data transmission from/to IR camera and projection device.



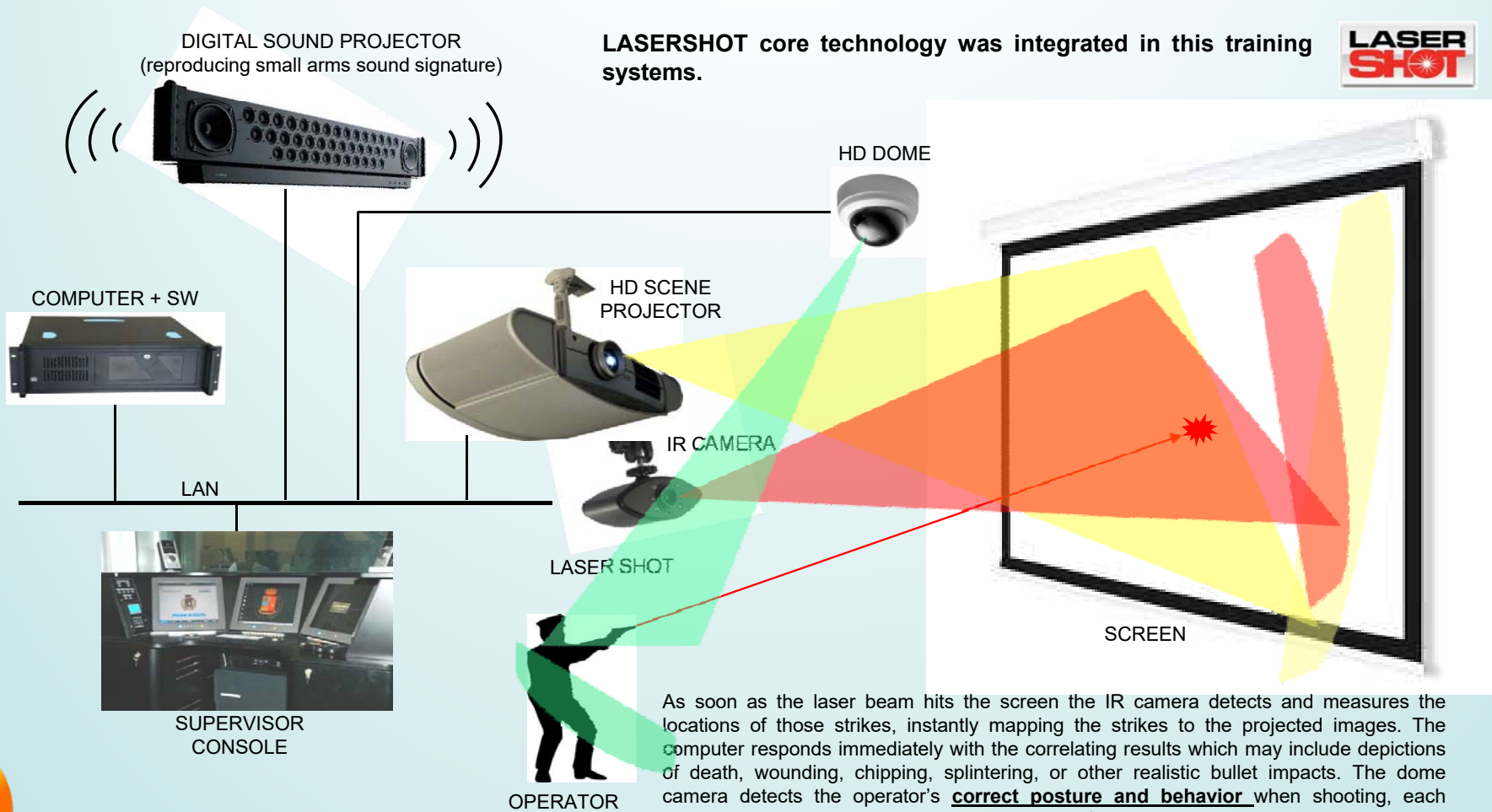
Our Market Approach

Ultimate firearms training devices with industry unique approach:

- **Patented technology** with highly accurate hit detection software coupled with physics-correct software;
- **“Train as you fight”** orientation, that means: complete understanding of the law enforcement shooters’ needs thanks to high end technology and their expert technicians as well;
- **Full spectrum of custom and turn-key firearms training solutions:** individual, collective, mobile, modular, simulated, less than lethal, and lethal live fire solutions.



System Block Diagram



Technology At A Glance

The system enables the user to adopt three different kind of devices:

- high quality replica of real arms with laser device
- recoil kit for personal pistol or revolver
- double action laser inserts

Operators can use various kind of small arms such as:

Pistols:

- Beretta, 92 series
- Glock, all models
- ...

Revolvers:

- Colt
- Smith & Wesson
- ...

Long Guns:

- M1, M4, M14, Minimi
- Pump shotguns
- Heavy Machine guns (30/50)
- ...



System Comes In Various Configurations

The indoor, fixed, shooting range system is developed in a dedicated room, specifically designed to host such kind of system.

The system can be configured with several screens and projectors in order to obtain a full immersive environment. The system is comprehensive of auxiliary equipment such as dedicated teacher console, HVAC equipment, secure controlled access, secure weapons cabinet, etc..



A ROOM IN A BUILDING

The transportable version is a convenient “plug and play” classroom training package. The system is completely contained in a ruggedized break-apart two-piece console equipped with four locking caster wheels for mobility. The design of the console enables fixed mounted positions for the system hardware such as the computer, camera, and video projector. The entire unit receives power from one main AC external power lead extending from a mounted surge suppressor that serves as a fixed central power source for all electrical components.

The portable version provides a basic weapons training package for customers that already own a compatible computer, projector, and projection screen. The system comes packad in a portable, hard plastic protective case that contains all included hardware and courseware.



PORTABLE



TRANSPORTABLE





LONG RANGE SNIPER TRAINING SYSTEM

Long Range Sniper Training System



Sniper Training System

- Ruggedized, mission proofed System
- Usable with FX simulation and calibers up to .50BMG
- Can be used with handguns and rifles
- Flexible screen sizes and configurations possible
- Intuitive, simple controls and menus
- Easy to set up and maintain
- User can develop own animated scenarios and Interactive movies
- Exact hit assesment



Sniper Training System

The image depicts a virtual training environment for a sniper team. A sniper team position is shown in the foreground, with a red arrow pointing to an outdoor screen. The outdoor screen displays a scene with two snipers and a target. A rugged tablet-PC is shown in the foreground, with a red arrow pointing to the outdoor screen. The background is a desert landscape with hills under a blue sky.

- Easy to set up rubber screen
- AC and ballistic proof box with control unit and high power beamer
- WiFi Antenna

Outdoor Screen

Sniper Team Position

- Rugged Tablet-PC for control and debriefing

Sniper Training System



The Crosshair Sniper Training system is a rugged mobile training system for law enforcement and military professionals. It offers a flexible and mobile training solution even under the most demanding conditions. It can be deployed indoor and outdoor.

The Crosshair Sniper Training System consists of a high power beamer for image display, a PC and a thermal camera for shot tracking. This is integrated in a climate controlled ruggedized and bullet protected transportable box. The system can be remotely operated via a rugged tablet PC up to a distance of 1500m. The tablet PC can also be used to perform debriefing. The function of the system can be described as follows: The image is displayed on a rubber screen. The users shoot at that projected image, a thermal camera will detect the impact of the projectile and the scenarios correspond to the hit on the screen.

This guarantees 100% hit detection in real time and dynamic training. The users can fire from the ground, boat or from helicopters on the system. The system will detect shots with FX training ammunition and live fire up to caliber .50BMG The users themselves are able to create own training scenarios and interactive training videos.

That ensures training tailored exactly to the user's needs. The Crosshair Sniper Training system is a cost effective and flexible training that will contribute to mission success of law enforcement and military professionals.

Sniper Training System



Measures:123x70x47cm **Weight:** ca. 56Kg



Installation: DutchSpecial Forces, 2011



Installation Seecontainer: Bundesheer, 2011



Installation freistehende Leinwand: TrpÜbPI Munster, 2011



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