LASER SHOT® SIMULATIONS

IMMERSIVE SIMULATORS  TRAINING COURSEWARE  SIMULATED WEAPONS  LIVE-FIRE RANGES
Laser Shot provides affordable, alternative training solutions for military, law enforcement professionals, and pro shooters. Since its establishment in 1999, Laser Shot has remained committed to developing the most realistic and practical firearm simulators, crew training simulators, and live-fire facilities available worldwide.

Laser Shot offers progressive training solutions that are applicable to all skill levels, adaptable for individual customer needs—all while focusing on “train-as-you-fight” core principles. Our training solutions augment existing programs with safe alternatives by using technologically-advanced simulations for immersive training. In live-fire facilities, they turn conventional, mundane ranges and shoot houses into exceptional, cutting-edge facilities.
Laser Shot simulators lead the market in durability, performance, options, and software capabilities with the largest and most in-depth judgmental scenario library available.

The following training solutions feature technology that has been designed and developed with input from law enforcement subject matter experts.
VIRTUAL ADVANTAGE
Simulator training environments are completely independent of live fire range access or weather conditions. Students can maintain aggressive training tempos and instructors can provide better training oversight to beginner, intermediate, and advanced marksmen. Simulators develop key technical skill sets that build proficient and experienced Law Enforcement Officers.

Use-of-force scenarios challenge individuals’ decision-making skills and reaction times to potential threats that Law Enforcement Officers may encounter. Through repetitive simulations with instructor-controlled threat escalation or de-escalation, leaders can see how Law Enforcement Officers respond in active shooter situations and train to build confidence in their skill sets. Simulators with use-of-force training capabilities and a user-friendly built-in scenario editor enable instructors with basic computer skills to create or modify complex scenarios that are relevant to training.

Simulation builds upon core marksmanship training fundamentals and significantly challenges Officers’ intermediate and advanced skills. Small arms weapon qualification is a fundamental requirement for all Officers, and as firearm proficiency is a perishable skill, it requires repetitive training to maintain and improve. SIMrange™ courseware was written in adherence to the standards set by the US Military and top US Law Enforcement agencies, and builds readiness and skills through repetitive Preliminary Marksmanship Instruction (PMI) training.

SMALLEST FOOTPRINT // FASTEST SETUP TIME
The SIMrange™ features a built-in hit detection camera. This simple innovation significantly reduces the time needed for setup and calibration, compared to other simulators. The operator station and accessories consist of two monitors and keyboards for individual control of instructor station and primary screen. All accessories are packed in a ruggedized wheeled hard case for transport. SIMrange™ is considered a “Plug and Play” solution that is designed specifically for the marksmanship training needs of Law Enforcement.

Setting up the SIMrange™ is an intuitive process that requires very little time or manpower. After one introductory training session, a single operator will be able to complete the setup, which includes camera calibration, and be ready for training in 10 minutes or less. Ultra short throw technology for projection and hit detection capabilities make Laser Shot’s SIMrange™ the smallest footprint in the industry, which can be set up in a 10’x10’ room or area, and can operate in most light environments.

SIMRANGE
ULTRA SHORT THROW SIMULATOR
Laser Shot’s SIMrange™ enables ultra short throw projectors with integrated hit detection cameras to be installed within 18” of the projection surface reducing the overall footprint required. The SIMrange™ is scalable and can be delivered in multiples of three lanes per screen allowing for expansion to meet throughput requirements.

In the past, firearms simulators required installing an independent laser hit detection camera adjacent to the projector, requiring careful positioning and calibration during each setup. The SIMrange™ eliminates this task by integrating the laser hit detection camera inside the projector, ensuring constant alignment and readiness to begin training.

The SIMrange™ can be placed within 18” of the projection surface due to its ultra short throw technology. This enables smaller rooms or spaces to be converted into virtual ranges for safe, effective training without the need for ballistic facilities or live weapons and ammunition.

Features
Ultra short throw capability within 18” of the projection surface
Integrated hit detection camera
Fastest setup time of any simulator in its class
Ceiling-mounted capability

Components
1. Ultra short throw projector
2. Mounting points for overhead installation
3. Built-in self-calibrating hit detection camera
4. Durable rolling case included with portable packages

Specs
- Weight: 11 lbs
- Width: 11. in.
- Depth: 14.7 in.
- Height: 4.9 in.
Curved Screen System

Immersive Environment
Laser Shot Simulations’ Curved Screen Simulators have modernized the immersive virtual training industry by utilizing a curved, seamless screen, providing an uninterrupted image, offering the most realistic virtual firearms training experience.

Immersive training replicates the training a warfighter would receive on a traditional shooting range. This offers a large variety of military targets, qualification courses, and skill drills. Warfighters can fine tune their small arms fundamentals with Skill Drills training modules as well as put themselves into realistic battlefield simulations with Virtual Battlespace 3.

Features
- Seamless curved projection screen
- Image warping/blending software
- Structural supports
Laser Shot recognizes that the key to successful training comes from a combination of both hardware and software. To that end, Laser Shot continually updates a library of realistic, effective, and doctrine-based courseware with our in-house team of software engineers in conjunction with law enforcement subject matter experts.

By writing our courseware straight from law enforcement and federal qualification manuals, officers are able to train for live-fire events that they may encounter in the future.

Laser Shot understands that organizations may have different training needs and works with end users to develop specific courseware that meets their requirements.
Laser Shot offers an ever-expanding library of software titles to meet the wants and needs of anyone looking to improve their firearm skills through the use of simulated firearm training. From hunting bears and prairie dogs, to fighting on a pirate ship, to training on competition shooting courses, there truly is something for everyone to enjoy in the Laser Shot library.

HUNTING SOFTWARE
Bear Hunter
Dove Hunter
Endless Easterns
European Tower Hunting: Pheasant Hunt
Five Stand
Flying Rubber Ducky
Full Boar
Gobblin Goulds
Hunting Targets
Mallard Hunt
Mallard Madness
Merriam Madness
Midway Mallard
Osceola Outbreak
Partridge Hunter
Prairie Dog Hunt
Rabbit Hunter
Rio Roundup
Roe Deer Hunter
Virtual Hunting HD
Wild Turkey Shooting Gallery
Xtreme Squirrel Hunt

OTHER SOFTWARE
Air Assault
Course of Fire
CCC - Close Quarters Combat
Dart Duel - 01s
Dart Duel - Cricket
Dart Duel - High Score
Dart Duel - Shanghai
JTS - Judgmental Training Software
Practical Shooting Alpha
Practical Shooting Bravo
Practical Shooting Charlie
Practical Shooting Delta
Practical Shooting Echo
Practical Shooting Fox Trot
Practical Shooting Golf
Pro Shooting Challenge 1
Pro Shooting Challenge 2
Pro Shooting Challenge 3
Pro Shooting Challenge 4
Pro Shooting Challenge 5
Reaction Plates
Shapes and Colors
Skill Drills 1
Skill Drills 2
Skill Drills 3
Speed Trap II
Steel Challenge
Target Shootin'
The Pirate Ship
The Saloon

SOFTWARE & COURSWARE
EXPANSIVE SIMULATION LIBRARY
PRO SHOOTING CHALLENGE  
CHALLENGING MARKSMANSHIP TRAINING 
An increasing demand in shooting competitions now involve much more than just aiming at a motionless target. Today, an individual must be able to move through various stages of an obstacle course, maintaining the control to fire with precision while avoiding the wrong targets. Laser Shot wanted to assist these shooters and give them the ability to effectively train all year round.

Laser Shot built five challenging courses that will help any shooter further develop their technique while giving them the added pressure of a visual time clock. A shooter can now train in the comforts of an indoor environment, and save on ammunition, travel costs, and lost time for bad weather conditions. (shown below)

PRACTICAL SHOOTING  
COMPETITION TRAINING COURSEWARE 
Competition shooting tests the ability to shoot both quickly and accurately. Laser Shot took these skill sets into consideration and created challenging courses that will help shooters further develop their technique. It gives a shooter the ability to train in the comforts of an indoor environment all year round. This software paired with Laser Shot hardware enables a shooter to easily train for any competition shooting match.

RUN & GUN  
MOBILE COMPETITION TRAINING COURSEWARE 
Transform an indoor space into a cutting-edge, modular competition shooting course! Run & Gun is a perfect addition to any shooting sports complex, gun store, training academy, entertainment venue, or event and can be configured into countless virtual courses by rearranging pre-made stages or with optional add-on packs in the future. The next evolution of Laser Shot’s hit software title Practical Shooting - Run & Gun takes it to the next level by networking multiple shooting lanes into a single, action-packed simulator that emulates real IPSC- or IDPA-style competitions without the need for live firearms. When paired with Thermal Shot™ Live-Fire Technology, Run & Gun is ideal for indoor live-fire ranges who want to modernize their customers’ experience and increase attendance. Compatible simulation firearms include inert laser trainers, drop-in recoil kits for real firearms, UTM kits, or dedicated recoil non-gun training weapons. Add a few CCAT modular barriers to the indoor course to create a truly 3D competition shooting experience. (shown above)

STEEL CHALLENGE  
TRAIN LIKE WORLD CHAMPION MAX MICHEL 
Steel Challenge is a marksmanship courseware package that features a variety of targets, environments, and other options available. Each stage gives a total score that includes scores from previous stages, shows the time taken to complete the stage, targets hit, and a score for that particular stage.

- Accelerator
- Five to Go
- Outer Limits
- Round About
- Pendulum
- Showdown
- Smoke & Hope
- Speed Option

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Judgmental Training Software (JTS) is designed to challenge cognition through the use of real life interactive simulated scenarios. The scenarios were designed based on real life exposure to emergent threats in the law enforcement and military communities. As the student reacts to the scenarios presented to them, the instructor has the ability to manipulate the scenario based on the student’s presentation of their organization’s force continuum. The instructor also has the ability to save progress and conduct after action reviews (AAR’s) which aid in continued coaching, mentoring, and reinforcing organizational standard operating procedures.

With over 900 training scenarios to choose from in the JTS library, from responding to a domestic disturbance or burglary to more complex branching scenarios such as active shooter and concealed carry scenarios, the instructor has the ability to challenge the student all while reinforcing the force continuum.

In a controlled environment the instructor can provide an atmosphere indicative of situations where the student may be required to take cover, move towards or away from a perceived threat, and to draw and fire from behind cover, all while verbally working through the threat as if their life was truly in danger. Included in this package is a remote tablet used as the instructor station, which does not restrict this instructor to a static position. This allows for the instructor to give personal critique and display a shot by shot after action review to the student.

While training, the instructor can manually direct the scenario to create multiple outcomes based on the student’s interaction, reinforcing communication and deeper understanding of the use-of-force continuum.

An optional add-on is a user-friendly built-in scenario editor, which enables instructors with basic computer skills an opportunity to effortlessly create or modify complex scenarios to their specifications. Easy to use tools such as advanced zoning options, and simple drag-and-drop controls support the act of importing scenarios into the design canvas. This creates a simple platform for generating new simulations and branches that are automatically generated and displayed in a top-down, real-time 3D, hierarchal view.

Laser Shot’s Course of Fire™ supports qualification requirements for Basic Marksmanship Instruction by enabling instructors at any level of computer knowledge, skill, or ability, to replicate any physical firing range and target condition. Course of Fire provides up to 4 individual qualification lanes per Virtual Range set, all operated through a single dedicated iOS or remote tablet. The user-friendly GUI features include a simple menu interface for selecting and inputting shooters, selecting courses, course editing, and developing and exporting training reports to reflect student performance and progress. Additional lanes can be added by networking more systems, as seen with the 72 lane system at FLETC - the Federal Law Enforcement Training Centers.
HE TOOLS

HUNTER EDUCATION

Laser Shot’s Hunting Simulators are designed with input from Hunter Safety Professionals from around the world. Students will experience the thrills of sporting firearms while at the same time receive instruction in safety, proper ethics, and the responsibilities of gun ownership. Laser Shot is a Corporate Sponsor of SCI Safari Club International as well as a corporate sponsor of IHEA International Hunters Education Association and is a donor to Kids for Clays (Ronald McDonald Charities). Shooting skills are important, but it’s imperative to learn and practice safety and responsibility in your hunting activities. Laser Shot Hunter Education Courseware is included with our systems because we are committed to educating and re-educating hunters of all ages and experience levels.

COVERED TOPICS

- Rifles
- Shotguns
- Handguns
- Ammunition
- Bowhunting
- Firearm Basics
- Muzzle Loading
- Game Care & Cleaning
- Firearm Handling & Safety
- Principles of Wildlife Management
- Marksmanship & Shooting Fundamentals

SKILL DRILLS 1, 2, & 3

SKILL DEVELOPMENT COURSEWARE

Skill Drills are advanced drills that significantly increase marksmanship proficiency. Laser Shot Simulations skill building exercises develop strong transferable skills that carry over in to live-fire applications. Included are various training drills that focus on the improvement of Officers’ speed, accuracy, and reaction times. Designed by subject matter experts in advanced firearms training, drills are designed to focus on critical eye and hand coordination while introducing stressors like timers, no shoot targets, reflexive fire, and head-to-head competition with other officers to reinforce urgency in speed and accuracy. Each drill has adjustable settings to allow for the progression of training and determining degree of difficulty required to challenge all skill levels to perform better. Drills can be used with any simulated weapon types.
In order to fully immerse trainees and provide unforgettable muscle memory, a comprehensive virtual training system should include realistic simulated weapons or recoil kits for real firearms.

Laser Shot designs, manufactures and assembles a variety of simulated firearms solutions ranging from sidearms to crew-served weapons at our state-of-the-art engineering facility in Sugar Land, Texas.
Laser Shot has developed simulated magazines capable of adjustable round counts. When the number of shots fired equals the round count setting, a follower is actuated to lock the bolt or slide to the rear, replicating the physical characteristics of an empty weapon. Officers must physically eject the magazine and press down on the actuator to reset/reload and re-insert it to the magazine well to resume firing. Each magazine replicates the weight and feel of a real magazine and feature true-to-life dimensions for seamless carrying in tactical gear or duty belts for reload drills.

Laser Shot’s C/CAT is a portable, modular barrier system that enables shooters to utilize cover and concealment, enhancing simulated and force-on-force training scenarios. Barricades measure 4’x6’ and are built with modularity in mind. A C/CAT can be configured to replicate obstacles found in the field, such as doorways, hallways, corners, and other architectural layouts. Barriers also incorporate 2’x2’ removable panels to create apertures and windows.

Each C/CAT system is comprised of two barricades which can be set up and torn down in minutes. The entire system packs easily into a single case measuring 13’x39’ and weighs only 46 lbs.
Crosshair™ Magnified Optics Simulator is a unique, high-fidelity training simulator for distance shooting and the use of long-range optics. By utilizing micro-displays embedded in a variety of optic housings, Laser Shot is able to offer snipers, marksmen, and observers the ability to use virtual magnified optics to execute tactical scenarios incorporating observation, cover, and engagement.

Crosshair simulated weapons or optic devices contain an always-on infrared laser that the detection camera tracks for aim data. This aim data is used to produce the magnified image that is displayed in the virtual scope. In the case of weapons, when a trigger pull is sensed, a shot will be created at the aim point. Crosshair’s simulated rifle scope has functioning elevation and windage turrets along with adjustable focus and zoom rings.

**Features**
- Realistic ballistics engine
- Conduct mission rehearsal
- Can replicate long range engagement inside a classroom
- Train for windage, elevation and distance factors without the need for live-fire
- Multiple weapon and optic platforms can be networked together within the same scenario for collective training
- Multiple optic models available

**SIM RCO Non-Electronic Option**
Magnified view is achieved using specialized lenses within the mock optic body, allowing the shooter to focus on the projection surface.

**M4 Recoil**
When paired with the SIM RCO, this simulated weapon offers a tetherless option to train designated marksmen.

**Spotting Scope**
Ideal for sniper / spotter team training and features realistic zoom and focus adjustments.

**Rifle Scope**
Features functional windage and elevation turrets, as well as standard eye relief for a long range optic of its size.

**M24**
This simulated weapon features a real M24/Remington 700 action and Harris bipod for realistic precision marksmanship training.

**M110**
Modified from a real weapon system, this training device mimics special purpose rifles found in all services and elite law enforcement units.

Crosshair™ technology can be adapted to any physical optic. Our team of firearm engineers are standing by to create custom training devices to meet specialized training requirements. Below are some of the most commonly used simulated optics and weapons.
Shooting Range Technologies™ is a leading authority on live-fire range design, fabrication and equipment. With more than seventy combined years of industry experience, SRT personnel are uniquely qualified to take on your range project and complete it on time and within budget. We use the very latest in computer aided design technology, and operate some of the largest computer driven dual-head water jet cutting machines in North America. As the live-fire division of Laser Shot, Inc., and previously operating solely under the Laser Shot name, SRT has been designing, fabricating and equipping specialized, 360° containment / zero SDZ live-fire shooting range facilities since 2005.

RANGES TO FIT ANY NEED // Products include SRT’s Modular Small Arms Ranges (MSAR), Mobile Ranges, Container Ranges, and Shoot Houses. We’ll even help you with your custom conventional style range if you like. We have built and supplied range facilities for every branch of the U.S. military, including SOCOM; foreign militaries, including the Canadian Special Forces; DHS/ICE / Border Patrol; and The Federal Reserve; as well as Law Enforcement Agencies and Civilian/Commercial customers, worldwide. Even Sturm, Ruger & Co., one of the world’s largest firearms manufacturers, after exhaustive research, chose SRT to design, build and outfit their new, modular live-fire testing facilities in two of their manufacturing plants.
CONTAINER RANGE

COMPACT LIVE-FIRE FACILITY

SRT installs the latest shooting range technologies in a compact self-contained unit through the use of modified 40’ shipping containers, which can be connected end-to-end for a maximum shooting distance of 100 meters. These ranges are in use by firearm manufacturers who need a testing range, police and military units who have frequent training and qualification needs.

Optionally, Laser Shot’s powerful Thermal Shot technology can transform each Container Range into a virtual training center featuring challenging software with moving targets at simulated distances.

FEATURES

- Bullet trap options (granulated rubber, snail, Svalin, etc.)
- HVAC system
- Soundproofing
- Exterior / interior paint
- Virtual targetry with Thermal Shot technology
- Interior lighting
- Instructor control station

MOBILE RANGE

TOWABLE SHOOTING SOLUTION

SRT’s Mobile Range is a completely self-contained live-fire training facility, transportable by standard over-the-road methods, without special permitting. Available in several target distances including 7, 10, and a 25 yards/meters. A ‘drive-up’ solution providing on-site, live-fire training. The Mobile Range can be customized to include monorail targets, shooting booths and/or Laser Shot’s Thermal Shot™ live-fire simulator. Other custom options available.

FEATURES

- Bullet trap options (granulated rubber, snail, Svalin, etc.)
- HVAC system
- Soundproofing
- Exterior / interior paint
- Virtual targetry with Thermal Shot technology
- Interior lighting
- Instructor control station
- Simulated Weapons
- Software
- Screen
OVERVIEW

The Svalin Bullet Trap is the latest addition to the options offered by Shooting Range Technologies in partnership with Odin Target. Designed to maximize shooting distance and contain bullets first from varying angles, the Svalin is virtually maintenance-free while withstanding high loads (Approx. 950,000 per square meter before maintenance is required).

The Svalin is covered with a self-healing rubber later that eliminates ricochets and provides a surface for virtual targetry to be projected upon. These bullet traps can be installed in 360°, creating an immersive shooting experience.

THERMAL SHOT

LIVE-FIRE VIRTUAL TARGETRY SYSTEM

Thermal Shot™ technology is the exclusive live-fire solution that ensures the entire target wall is tracked. This implies that all areas of the screen will accurately track and register projectiles, resulting in zero blind spots and rogue shots. As a projectile passes through or strikes the Thermal Shot™ screen, the thermal camera detects and measures the locations of those strikes, instantly mapping the strikes to the projected images. The computer responds immediately with the correlating results which may include depictions of death, wounding, chipping, splintering, or other realistic bullet impacts.

MODULAR SMALL ARMS RANGE

MODULAR SHOOTING SOLUTION

The Modular Small Arms Range (MSAR) provides a zero-surface-danger-zone alternative solution to the standard constructed indoor firing range. The completed MSAR includes a weathertight enclosure, and all range systems such as OSHA/NIOSH/EPASHRAE compliant HEPA-filtered ventilation, ballistic containment, sound isolation, target, lighting, communication, touchscreen controls and safety/emergency systems. Storage space and classrooms, as well as a choice in bullet trap and target styles; including patented Thermal Shot™ Live-fire Virtual Targetry are available. MSAR is a turnkey small arms training solution—Just provide a solid, level foundation/support for anchorage and utility connections and we do the rest! Modular prefabrication drastically shortens acquisition time and simplifies procurement requirements. Weapons cleaning and storage, as well as restroom/washing module options are also available.

Available with fixed or dynamic (tactical) firing lines; with full ballistic and splatter protection and NO interior dividing walls, columns or supports within the shooting area, MSAR offers a safe and affordable and small arms range solution which is superior to ranges constructed from shipping containers and to conventional indoor ranges constructed as permanent ‘brick and mortar’ buildings.

FEATURES

- 360° enclosed AR-500 armored shooting bay - No-Surface-Danger-Zone required
- 99.97% HEPA-filtered ventilation/HVAC available in Purge or Recirculating style
- Meets all applicable NIOSH, ASHRAE, OSHA & EPA requirements
- Only indoor range certified for use with new 7.62mm and 5.56mm EPR (M80A1 and M855A1) ammunition
- Modular assembly and training device classification simplify and shorten procurement
- “Green” Range with complete particulate and fragmented lead containment & management
- Noise pollution controls minimize the impact on neighbors and sound exposure to users
- Steel or rubber bullet trap choices using proven designs
- Multiple target options, including Thermal Shot™ Live-fire virtual targetry/video wall
- Built-in Range Control Office with touchscreen automation controls
- 99.97% HEPA-filtered ventilation/HVAC available in Purge or Recirculating style
- Meets all applicable NIOSH, ASHRAE, OSHA & EPA requirements
- Only indoor range certified for use with new 7.62mm and 5.56mm EPR (M80A1 and M855A1) ammunition
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- Steel or rubber bullet trap choices using proven designs
- Multiple target options, including Thermal Shot™ Live-fire virtual targetry/video wall
- Built-in Range Control Office with touchscreen automation controls
- Compatible with Live rounds, Training munitions (UTM®/Simunition®), Soft Air, Rubber Projectiles

OVERVIEW

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Train Like a Champion

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