■ VIRTRA TRAINING

There are many options when selecting the right simulator, but for a reliable training experience that can provide patented technology, VirTra uses a unique approach to training that has become the industry standard. VirTra scenarios are scripted from the combined knowledge of our internal experts as well as industry partners to provide a unique experience for trainees. VirTra films scenarios in real-world locations like a school campus and a courtroom to help provide the most realistic experience possible. This combination translates into excellent training points for skills that can be demonstrated in the field at the height of stressful situations.

Complete Scenario Library

The V-180® comes with an entire library of professionally produced scenarios, filmed and edited explicitly for use on the screens of VirTra's fully-immersive 180-degree simulator. The complete library offers a unique spectrum of situations that can run from weapons manipulation drills and marksmanship to top issues like school shootings and use of force. Be sure to see our Capabilities list for complete library details.

- Pre-loaded scenario library provides event permutations, unique content, and genuine realism based on the trainee's every action
- Scenario branching options are based upon a trainee's actions, or instructor initiated, with actions on one screen triggering an event on a different screen
- Includes multi-incident scenarios with a minimum constant end-to-end runtime of 4 minutes for optimal training
- Scenarios include selectable and directional sounds that can be incorporated into any simulation environment as distractions or warnings
- Scenarios are incorporating movement within a scene display motion methodology to avoid vertigo effects which keep you grounded

VirTra - Virtual Interactive Coursework Training Academy™ (V-VICTA)

V-VICTA™ training is included with the system and provides law enforcement departments all the necessary tools to instill proper training and knowledge transfer to its students. The accredited interactive coursework that accompanies the scenarios for the full training program for a turn-key solution that:

- Enables law enforcement agencies to effectively teach, train, test and sustain departmental training requirements
- Includes Interactive Virtual Coursework with a Master Manual with Pretest, PowerPoint, with Test Answer Keys as well as Student Manual, and Post Test

V-Marksmanship™ Range Courseware

VirTra's V-Marksmanship software program allows for unique training that an entire team can use to train on a variety of targets, courses, and ranges from the comfort of your own training facility without having to reset targets physically reset targets. Multiple firing lanes can be operated simultaneously, allowing multiple trainees the ability to practice at the same time on different ranges.

Debriefing

VirTra's simulators provide immediate feedback on one's scenario performance within the training simulator, by pausing between scenarios, a review screen appears and provides a report on how the trainee did on that particular scenario which includes:

- Shots made/missed displayed on-screen for analysis
- Referenced case law displayed on the screen
- Optional Trainee Monitoring and Recording™ (TMaR), a high-resolution low-light camera, records and syncs with playback mode to show a trainee's performance, judgment, and reaction time with Picture in Picture (PiP) playback

■ V-OS (VIRTRA OPERATING SYSTEM)

Localization

Customize the V-OS interface by changing the font and verbiage to almost any dialect of the language. Our proprietary operating system is the magic that makes the trainee's interactions crystal clear and true to life.

Simplified Mode

For greater ease of use, place VirTra in Simplified Mode to streamline the training experience.

- Less technical, less confusion, fewer issues
- Ideal for times where a trained, fully certified instructor is unavailable
- Less downtime and easy to use format makes for better use of training time

Self-Diagnostics

The BIT (Built-In Testing) continually monitors the entire system to alert the user when there might be a potential issue, such as hard drive space, network speed issues, or a camera unplugged.

Laser Diagnostics Tools

This tool alerts a user to items such as a low battery on an OC canister or flashlight that can potentially interfere with the strength of the laser in advance of a scheduled training session.

Simulator Calibration

With the press of a button, a new laser ID can be calibrated into the system and used within two minutes. Calibrate multiple laser ID weapons and an unlimited number of flashlights at the same time. This ensures the accuracy of each shot allows multiple trainees to each have a handgun, rifle, OC, Taser and a flashlight together in the simulator. Likewise, the system of computers has a Wake-on-LAN feature where each of the individual computers works harmoniously to provide synchronized content across all five screens.

Simulator Operating Software

- Simulator Operating System is updated with service pack releases annually when under a service agreement and where available
- Software controls scenario simulation, range courseware, and custom created content from a single user interface
- Simulator software controls and adjusts available hardware accessories on the system without the use of a separate program
- Software configured to control a 'master' system in conjunction with 'cluster' networking support
- Accurate, grid-based laser tracking system calibration performs in under 90 seconds
- Realistically synchronize all video content, audio files, graphics in a seamless display across all screens at the same time
- Software controls optional Threat-Fire® device, VirTra's stress inoculation feedback device simulates a shot fired by the assailant

Physical System Specifications

The three screens and a 180-degree immersive training environment of the V-180 ensures that time in the simulator translates into real-world survival skills. Our full system hardware specifications include:

- A networked computer system with 16GB Ram that recognizes and records trainee reaction speeds up to 1/100 of a second for post event review
- Three high-definition front or rear short-throw projectors (depending on system setup) capable of a minimum 3300 lumens brightness
- Three self-powered monitor speakers with 700w each, with the option of additional speakers under the training platform and above the trainee's head for atmospheric sounds
- Custom wiring harnesses that connect the simulator computer, projectors, speakers and shot tracking cameras with a complete data transfer at the end of each training event
- Optional low-light flashlights and tracking cameras provide a smooth screen-to-screen transition with multiple flashlights at the same time per screen with a localized ground light spread for low-light training immersion
- Three USB-powered laser tracking cameras that are capable of handling dozens of unique laser identifiers plus unlimited flashlights, with separate shot markers that work seamlessly with each device
- Instructor workstation that includes monitor(s), lighted keyboard, and optical mouse

■ VIRTRA ACCESSORIES

VirTra's training simulators go beyond just computers, screens, and scenarios. We offer a variety of additional components and accessories that tie everything together for a complete training experience.

CO2 Refill Station

Proprietary liquid compression pump designed to provide a higher volume of Liquid CO2 compressed for a more realistic recoil and also provides a faster and safer procedure. Which also eliminates the necessity to hand fill high-pressure CO2 containers.

- Intuitive LED indicator lights for "ready to fill" notifications
- High strength, clear polyethylene safety window to view fill operation
- Includes a 20# aluminum tank with a siphon tube, gauged regulator and connection hardware

Tetherless Weapons Kits

- Rifles, shotguns, and pistols of various styles and sizes are available for pairing with the V-180 based on your needs
- Heavy weapon kits are available
- Magazines for supported weapons provide the tetherless cartridge in addition to the drop-in laser component for the chamber
- Instructor-controlled or computer programmed round count setting controls the blue-tooth jamming capable magazine technology

Stress Inoculation Training with the VirTra Threat-Fire®

- Our patented Threat-Fire® device utilizes electronic impulses resulting in a physiological change to the body during screen-based simulation training and a sudden unexpected jolt to your senses
- The Threat-Fire® wireless device clips onto the trainee — typically on the belt — where the recommended setting of one half a second to .75 seconds of electric impulse is enough to add a physiological response that significantly enhances the effectiveness of simulation training

Scenario Authoring Software

- Different from an editing ability, VirTra's proprietary V-Author® Pro Software allows for the creation and authoring of unique training content that can only be used on the VirTra line of simulation equipment
- The V-Author Pro allows for the creation and display of real video-based assets on all (multiple/interactive/seamless) screens. Each application comes equipped with an extensive library of pre-assembled scenarios and drag-and-drop live actor characters (not CGI)

Simulator Low Light System

Low-light flashlights and tracking cameras provide a smooth transition with ambient light and bounce beam that can be adjusted. The system is capable of syncing with multiple flashlights to improve co-operation among trainees.

Additional Simulator Accessories

- Aluminum CO2 tank to include siphon tube
- Weapon kits CO2 weapons adaptor plates
- Trainee Monitoring and Recording™ (TMaR) device for recording trainee's actions during the simulation

VIRTRA V-180 SYSTEM

- Diverse scenario library with a variety of content that has multiple instructor options and training objectives and event permutations
- Scenarios that support your agencies full use-of-force continuum with hundreds of possible outcomes
- V-VICTA™ scenarios, curriculum, materials and training tests as an all in one solution
- Reporting and statistics capabilities with customizations
- Surround sound with instructor triggered positional audio cues
- Presentation system for pre- or post-action training with guideline reinforcement

- Proprietary V-Lux low-light support for flashlight sweeping and cover drills
- Built-In Tests (BIT) to allow trainers to diagnose and detect any system issues
- Accurate, grid-based laser tracking system calibration to calibrate all screen simultaneously
- Full marksmanship support with third-party verified ballistic calculations

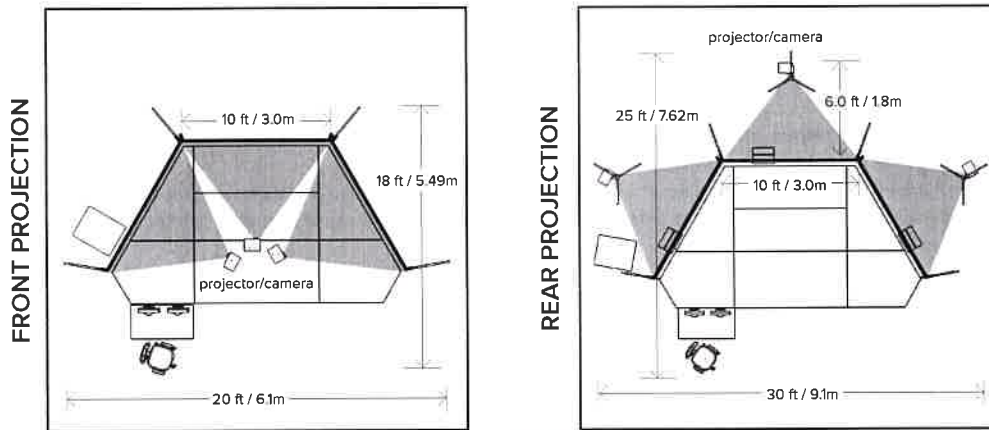## ■ VIRTRA SIMULATOR INITIAL SETUP AND CONFIGURATION

VirTra's training systems have several options when setting up the initial space that will become your training hub. Every effort is made to ensure that once the setup and training of your operator are complete, you are ready to begin elevating your training program to a whole new level.

Simulator Initial Training & Installation

- Includes a two-day training for up to six individuals on how to operate the system (within CONUS)
- Installation of simulator system by a qualified vendor employee (not a third-party contractor)
- Vendor Checklist to be completed and signed by the customer after installation and training
- Shipping of simulator to the installation site and connection setup

Footprint & Configuration

There are several options for configuring the setup space of your VirTra system, with examples of typical room setups shown below. The V-180 system configuration can be customized for a variety of room sizes. Contact a VirTra representative to discuss configuration details specific to your training space.

Purchasing Options

Capital Purchase: 85-130 K
STEP Program Rental: 2500-2900/mo.

For an alternative to a direct purchase of a capital expense, please refer to the VirTra Subscription Training & Equipment Partnership (STEP).

AFTER THE SALE SUPPORT AND TRAINING

1. VirTra System Technician at installation site one time during Plan Year to perform the following functions as needed and if applicable:

   - Upgrade VirTra Operating System (V-OS) features
   - Install new VirTra training scenarios
   - Clean computer, monitor and keyboard
   - Perform computer diagnostics
   - Clean simulator screens
   - Upgrade to most current base library
   - Recalibrate system
   - Inspect refill station and regulator

   - Recondition and test recoil kits
   - Zero all laser-based items
   - Test Threat-Fire® devices for proper functionality
   - Test OC and TASER devices for proper functionality
   - Inspect and test speakers and sound FX
   - Provide a list of inspected items
   - Provide user refresher training

2. Dedicated VTC at VirTra to support and teach you how to get the most out of your simulator's training capabilities
3. Ongoing free scenario courses, coursework, and training and each annual service visit, including latest V-VICTA offerings
4. Parts and Labor in the event of a non-functioning system or accessory
5. Telephone support between the hours of 8AM and 5PM AZ Time, with after-hours support calls returned between 8AM and 9AM the following day
6. Travel expenses if a VirTra technician must travel to customer location
7. Overnight shipping on all replacement or repaired parts
8. Remote assistance

* Certain restrictions apply - contact your VirTra representative for details.

PROTECT
AND SERVE
A HIGHER STANDARD IN
LAW ENFORCEMENT
TRAINING

Police Simulation Training

VirTra helps prepare law enforcement officers for real-life incidents so they can return home safely after each shift. Each real-world, judgmental use of force training simulator has surreal scenarios that provide an in-depth look into human performance. The demands on law enforcement to make critical decisions in tense, uncertain and rapidly evolving situations require that the human performance aspect of cognitive neuroscience and human physiology are taken into account as part of the police training methodology.

Research on how to best use law enforcement simulation technology is taken into account within what VirTra does. Training scenarios are filmed in superior quality and contain the full fidelity of real actors—thus eliminating 'video game' training. VirTra's extensive branching options further increase the realism by allowing scenarios to unfold based on the instructor, trainee or team's decisions.

> LEARN MORE

Certified Training Curriculum

Each law enforcement training simulator is equipped with V-VICTA®—Virtual Interactive Coursework Training Academy—which teaches, trains, tests and sustains law enforcement officers. The program's certified curriculum and interactive coursework are developed exclusively with nationally-recognized partnerships for maximum training both inside and out of the police simulator.

VirTra's constant improvements, evolution and intensity of new training products and tech stem from our clientele feedback and involvement, including U.S. Customs and Border Patrol, FLETC, Utah Attorney General's Office, Denver PD, Dallas PD, Inglewood PD, Camden PD, Hillsborough County Sheriff's Office, Australian Border Force and many more worldwide.

> V - VICTA

Use of Force Training Scenarios

Showcased below are just a few sample videos of actual VirTra law enforcement training scenarios. We prove what we do in actual videos. Watch as trainees engage in a wide variety of situations, including active shooter, de-escalation and property alarm.

Additonal Law Enforcement Training

Active Threat / Active Killer

Autism Awareness

Ambush

Corrections

Courtroom Security

COVID-19 Interactions

De-Escalation

Dog Encounter

Domestic Violence

Emotionally Disturbed Person (EDP)

High-Risk Entry	Skill Drill
High-Risk Vehicle Stop	Suicidal Subject
Hostage Situation	Suspect Contact
Human Factors	Suspicious Subject
Multi-Incident	Traffic Stop
Protesters and Rioters	Under Cover

+1-800-455-8746

Law Enforcement Training Scenarios

Real life events are rarely simple, which is why VirTra designed each training scenario to be complex. Through extensive branching options, each scenario can unfold based on the decisions made by the instructor or trainee. This ability allows a team's resilience and accuracy to be tested repeatedly with consistent training throughout.

These scenarios are designed to teach critical concepts, such as officer presence, communication skills, verbal and non-verbal cues, de-escalation, less-lethal, use of force and more.

VirTra

After-Scenario

00:05   01:21

A critical element of any police training ___ ___ is the debrief. Through VirTra's virtual training simu___ ___, instru___ ___ ___ the ability to pause the scenario mid-scene or ___ ___ ___ ___ ___ before reviewing the trainee's perform___ ___ ___ ___ debri___ abilities inclu___ overlaying ___ ons on the sc___ ___ su___ the exa___ ___ and location of the trainee's shot. Instruc___ ___ ___ ___ ___ improve report writing, ma___ ___ ___ ___ ___ training simulator.

SIMULATOR

**TODD
BROPHY**
Training
Specialist And
Use Of Force
Expert

" What made us choose VirTra was the options it had that would enhance what we were currently doing. We saw there was a lot more application, more realism and opportunity to integrate some of the stuff we saw coming related to the force option from verbal de-escalation all the way through lethal force. "

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V-VICTA™

VIRTUAL INTERACTIVE COURSEWORK TRAINING ACADEMY

Immersive Training Technology

One of the most important aspects of law enforcement simulation training is the quality of the content. V-VICTA™—Virtual Interactive Coursework Training Academy—delivers a program for law enforcement training courses. The curriculum is developed exclusively with nationally recognized partnerships and is designed to teach, train, test and sustain both inside and out of the police training simulation. This all-in-one training solution provides the Trainer all the necessary tools to instill proper training and knowledge transfer to its students.

Each set of curriculum includes scenarios, relevant case law and recent after-action reports to provide every possible training point instructors need to incorporate into their training sessions. VirTra integrates leading science discoveries about simulation and adult learning into each material to maximize the effects of training time and skill transfer.

LEARN MORE

Save Time and Money

The IADLEST National Certification Program™ for POST Certification sets the national training standards for curriculum certification across 36 states. Each course is critically reviewed by members of IADLEST and has passed the rigors of their independent review process, saving instructors time and money from creating their own coursework.

V-VI™—VirTra's Virtual Instructor—is a leap forward in instructor resources than ensures trainer are getting the most out of scenarios and the V-VICTA curriculum. With a click of the mouse, a VirTra Instructor appears on screen

or audible and walks through the corresponding scenario, pointing out key elements and training points. These train the trainer scenarios are designed to help trainers consolidate training pain points and instill confidence in knowing training needs are met and consistent from student to student and year over year.

The Benefits of V-VICTA

Curriculum Takes Time

1 hour of curriculum = on average of 65 hours of research, prep and approvals

Ease the Instructor's Load

V-VICTA currently provides 60 hours of certified coursework (approximately 3,900 man-hours saved)

Maximize Training Sessions

For optimal learning, modules can be broken into 15-30 minute intervals

Newly Released Curriculum

Active Threat / Active Killer

Autism Awareness

Contact and Cover Concepts

High-Risk Vehicle Stop

Human Factors in Force Encounters

Injured Officer Handgun Manipulation

Mental Illness for Contact +1 Professionals 46

TASER Targeting

Tourniquet Application Under Threat

Tourniquet Application Under Threat II

Weapon Transitions

Nationally Recognized Partnerships

VirTra has partnered with nationally-recognized experts in their respective industries to create new curriculum programs and scenarios. Through the help and insight of our partners, VirTra is able to develop the most up-to-date curriculum and tactics for officers everywhere.

Partners include: Haley Strategic, National Sheriffs Association, Force Science Institute, VISTELAR and SARRC-Southwest Autism Research & Resource Center

" Partnering with VirTra, with their advanced training simulators, will allow us to apply human factors research in a way that "

DR. BILL LEWINSKI
Force Science Institute

effectively combines physical, cognitive and perceptual training and testing. This combination will be vital to developing and maintaining the knowledge, judgment and skills transfer our law enforcement needs.

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