

An abstract graphic design featuring large, overlapping, curved shapes in various shades of blue (from light sky blue to deep navy blue) that sweep across the page from the bottom left towards the top right, creating a sense of dynamic movement and depth.

**VirTra**

2012 Product Brochure

## **OUR MISSION**

### **PRODUCT**

To develop, manufacture, sell, and support the finest simulators, accessories, and training scenarios in the world. The high quality of our products will only be surpassed by the quality of our customer support.

### **ECONOMIC**

To operate the Company on a sustainable financial basis. To generate profitable growth, increasing value for our shareholders and ever-expanding opportunities for career growth for our employees. Our Company will represent the highest standard within our markets, from product quality to moral ethics.

### **INDUSTRY**

To uniquely meet the needs of customers within our industry and to always seek innovative and better solutions to add value to our customers. To consistently consider other markets where we can substantially improve the quality and value provided to customers.



## ABOUT VIRTRA

VirTra Systems Inc., founded in 2002, provides the world's most realistic and effective small arms training simulators to Military, Law Enforcement, and Security agencies worldwide. VirTra is the higher standard in firearms training simulation. Our full line of marksmanship, collective, and judgmental use-of-force simulators range from portable single-screen systems to the world's most challenging firearms training simulator – the VirTra 300. VirTra Systems' advanced firearms training simulators feature video-based scenarios that allow threats to be engaged across multiple screens, immersive multi-directional sound, and drop-in tetherless recoil kits. We offer the world's only video-based 300-degree simulator platform and the patented Threat-Fire™ hostile return fire system. At VirTra, we believe that personnel entrusted with lethal force and critical missions deserve the very best training available.

## PRODUCT OVERVIEW

For many years, firearms trainers have developed training based on the old saying: "Train like you fight because you will fight like you train." This proven philosophy applies to all aspects of training, even more so in firearms simulation. Whether you are an athlete, an artist or Law Enforcement professional, skills mastery requires repetition of proper technique until the ability to perform no longer requires conscious thought; it becomes second nature. What you practice in training will be repeated on the street under the pressure of a real life or death encounter. This was tragically illustrated during the infamous "Newhall Incident" in 1970. That incident has impacted training procedures for enforcement agencies nationwide. These changes had not been incorporated into the simulation industry until now. Both good and bad habits are learned through repetition. Simulators traditionally have always involved a single screen directly in front of the trainee. The officers we have spoken to have told us that this method instills and reinforces the issue of tunnel vision.







As we know, reality paints a much different picture, as threats can come from all around us-sometimes from more than one direction and at the same time. In our research, and from the experience of our Law Enforcement professionals, many people experience tunnel vision under duress, and situational awareness is compromised. Thus the driving force that moves our evolution to multi-screen training was born. With multi-screen use-of-force simulator technology, situational awareness becomes one of the key elements in the simulators we manufacture, the scenarios we create, and the people we employ-all striving to provide the very best training available. Single screen simulators simply fall short and are no longer a viable source for effective training. Fully immersive, realistic options like the VirTra product have now become the higher standard in simulated firearms training.



Panoramic image applied to the simulator

## HOW DO WE DO THIS?

Filmed on location, scenarios run across multiple screens that create the only 300 degree, fully immersive training environment available today.



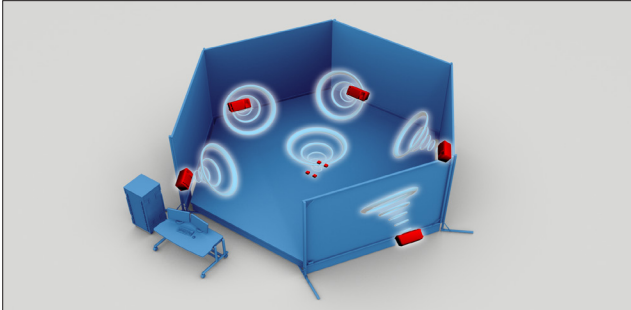
Live actors, not CGI or Hybrid CGI characters allow us to capture the human element, revealing threat cues that further involve the trainee in the encounter.





Use of officer's side arm or real weapon, rather than "non-gun" replicas. Simple barrel replacement with our recoil kit enables the officer to work with the actual weapon used every day. Our kits require no modification of the weapon and take minutes to install. SmartMag intelligent magazines allow for increased realism and kits are tetherless to allow freedom of movement within the simulator.

Patented Threat-Fire™ return fire, or "shoot back" device utilizing electric impulse to effectively simulate live fire with no safety equipment needed. No cleaning up of projectiles or potential of injury to the trainee. Less equipment equals less distraction, and more realistic environments.



**Auditory Recognition and Feel.** With directional sound, we can increase the awareness and develop higher levels of situational awareness by creating noise and distractions from all screens. Additionally, our raised training platform is equipped with acoustics that make the trainee hear and feel vibration and sounds within the simulator, adding to the immersive environment, further creating a realistic model for the situations they face every day.



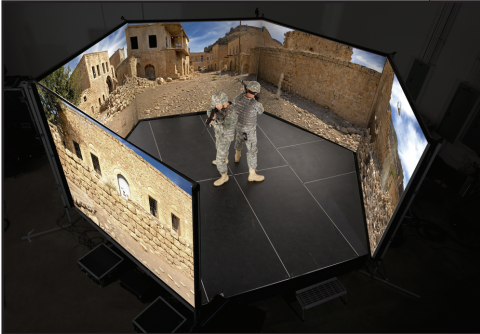
**Low Light Training System.** Exposes the trainee to proper use of the flashlight in combination with weapon in low light environments. Develops confidence and ability with threat/target identification in low light situations.



**Use-of-Force Simulation.** In today's changing and litigious society, use-of-force encounters have become more critical from a training standpoint than ever before. Our system incorporates TASER®, OC spray and baton as non-lethal options coupled with branch-able scenarios designed to reinforce this critical area of training.

# VIRTRA 300

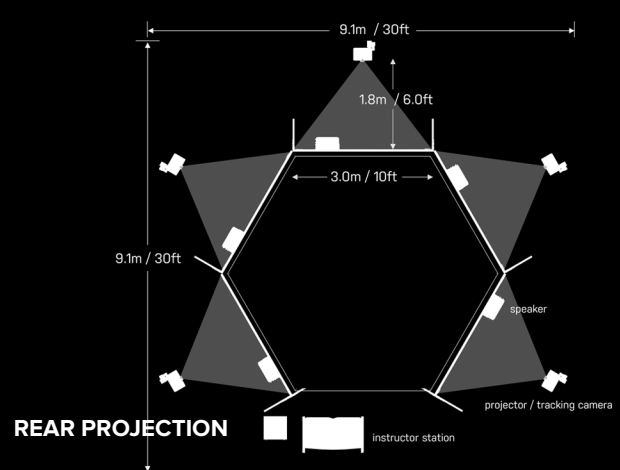
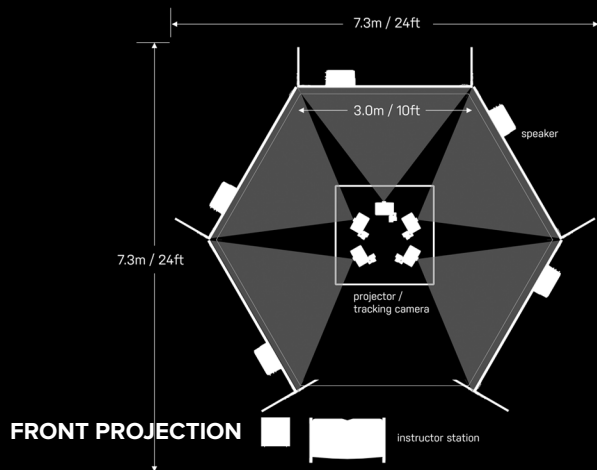
The VirTra 300™ is the higher standard for decision-making simulation and tactical firearms training. Five screens and a 300-degree immersive training environment ensures that time in the simulator translates into real world survival skills. The system reconfigures to 15 lanes of marksmanship training.



## FEATURES

- Fully immersive 300-degree environment
- Real-life scenarios and marksmanship training capability
- Seamless High Resolution video
- Debrief and record trainee's performance, judgment, and reaction time
- Multi-directional surround sound for unsurpassed audio realism
- Arsenal of recoil kits available for most firearms
- One year "Best in the Industry" warranty with 24/7 service and technical support

## FOOTPRINT AND CONFIGURATION



## SYSTEM SPECS



- 6 computers
- Rack mount chassis
- Intel processor
- Hi-end graphics card
- 8gb RAM

- 5 - XGA DLP projectors
- 5 - 10' x 7.5' projection screens
- 5 - Self powered monitor speakers with +10db input
- 5 - Gigabit laser tracking cameras
- Dual monitor instructor station with backlit keyboard and optical mouse



## VIRTRA 180

The VirTra 180™ is the higher standard for decision-making simulation and tactical firearms training. Three screens and a 180-degree immersive training environment ensures that time in the simulator translates into real world survival skills. The system reconfigures to 9 lanes of marksmanship training.

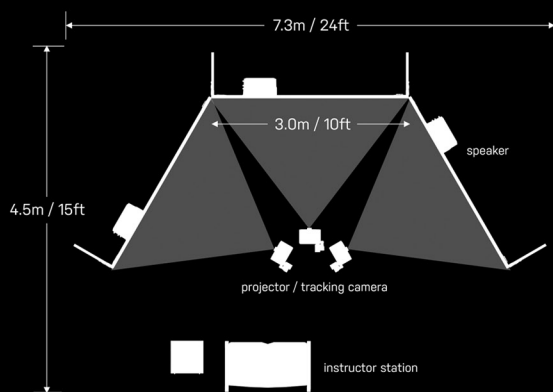


### FEATURES

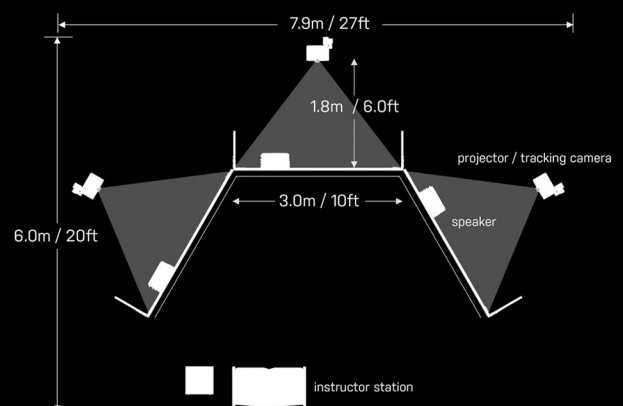
- Fully immersive 180-degree environment
- Real-life scenarios and marksmanship training capability
- Seamless High Resolution video
- Debrief and record trainee's performance, judgment, and reaction time
- Multi-directional surround sound for unsurpassed audio realism
- Arsenal of recoil kits available for most firearms
- One year "Best in the Industry" warranty with 24/7 service and technical support

### FOOTPRINT AND CONFIGURATION

#### FRONT PROJECTION



#### REAR PROJECTION



### SYSTEM SPECS



- 4 computers
- Rack mount chassis
- Intel processor
- Hi-end graphics card
- 8gb RAM

- 3 - XGA DLP projectors
- 3 - 10' x 7.5' projection screens
- 3 - Self powered monitor speakers with +10db input
- 3 - Gigabit laser tracking cameras
- Dual monitor instructor station with backlit keyboard and optical mouse

# VIRTRA 100

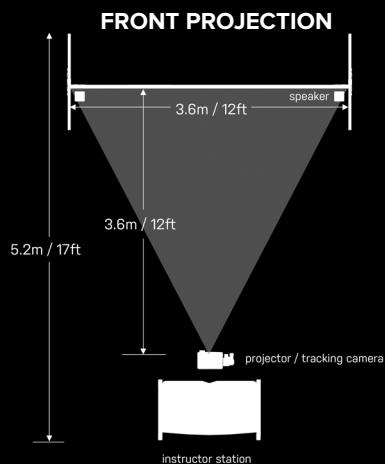
The VirTra 100™ is the higher standard in single screen, affordable, judgmental use-of-force firearms training simulators. Extensive library of realistic training scenarios capable of supporting the entire use-of-force continuum from verbal skills, less than lethal options (TASER®, beanbag, baton, pepperball, OC) to lethal force. The system fully supports marksmanship and skill building from basic to advanced.



## FEATURES

- Real-life scenarios and marksmanship training capability
- High Resolution video
- Debrief and record trainee's performance, judgment, and reaction time
- Multi-directional surround sound for unsurpassed audio realism
- Arsenal of recoil kits available for most firearms
- One year "Best in the Industry" warranty with 24/7 service and technical support

## FOOTPRINT AND CONFIGURATION



## 3 TRAINING OPTIONS AVAILABLE!

### VIRTRA 100 LITE™

- Includes ONE handgun recoil kit (based on available models)
- Includes training and installation
- Extensive judgmental and marksmanship scenarios
- Screen not included

### VIRTRA 100 PORTABLE™

- Includes ONE handgun recoil kit (based on available models)
- Includes training and installation
- Extensive judgmental and marksmanship scenarios
- Includes screen and low light options

### VIRTRA 100 THREAT-FIRE™

- Includes ONE handgun recoil kit (based on available models)
- Includes training and installation
- Extensive judgmental and marksmanship scenarios
- Includes screen and low light options
- Includes VirTra's patented Threat-Fire™ return fire simulator

## SYSTEM SPECS

- Laptop
- Intel processor
- 6gb RAM

- 1 - LCD projector
- 1 - 12' x 7.5' projection screen
- 2- Desktop speakers
- 1 - Gigabit laser tracking camera





# VIRTRA RANGE

The VirTra Range™ (Patent Pending) is the most detailed simulation of a real indoor and/or outdoor shooting range. The closest thing to having your own live-fire shooting range, but with none of the challenges and a fraction of the cost.



**Unlimited Training** – save your ammunition for when and where you really need it. Train more frequently and intensely, with a simulator you are not limiting your training time to your ammunition supplies. Train regardless of weather conditions or time of day

**Ease-of-Use** - designed for anyone to operate easily from one lane control box

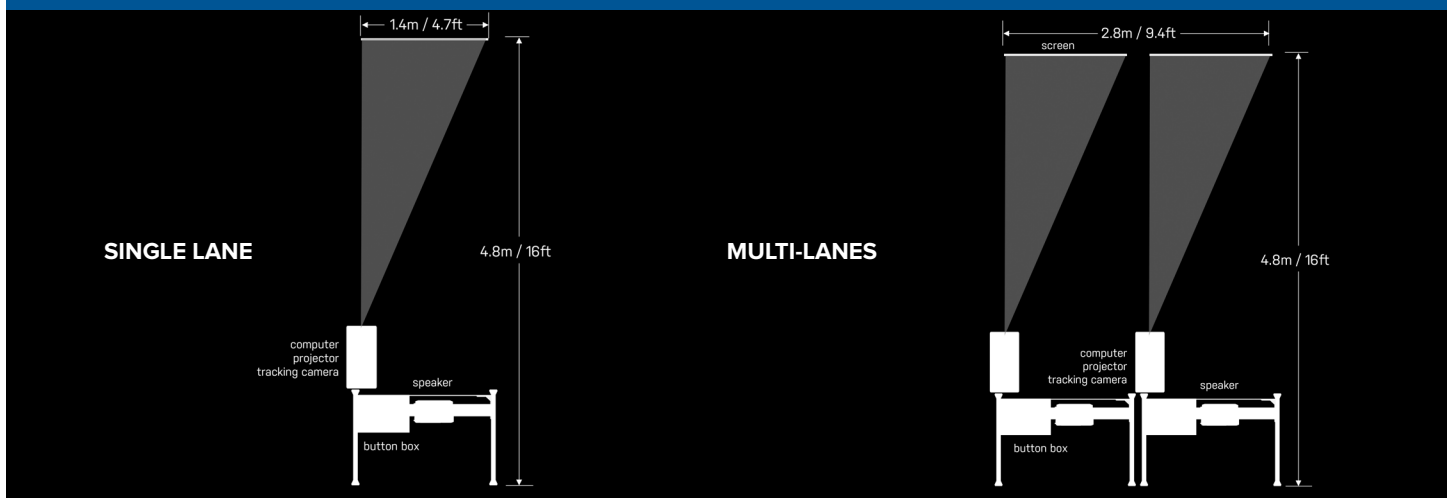
**Instructor Control Panel** - easy to use tablet permits control for multiple lanes

**Expandable** - with VirTra, your investment is always protected

**Warranty** - 1 year “Best in the Industry” warranty with 24/7 service and technical support

## FEATURES

### FOOTPRINT AND CONFIGURATION



## SYSTEM SPECS



1 computer  
Intel processor  
SSD hard drive  
Hi-end graphics card  
8gb RAM

1 - 1080P projector  
1 - 93" x 54" 1080P screen  
1 - Self powered monitor speaker with +10db input  
1 - Gigabit laser tracking camera  
1 - Tablet for instructor control

## RECOIL KITS

Our entire line of recoil kits produce powerful recoil action, operate at the correct cyclical rate, and can even be installed in the trainee's own weapon. VirTra's recoil kits can also save money, while providing a level of safety beyond that possible with live ammunition.

### TETHERLESS RECOIL KIT (TRK)

Real world weapons don't have cables. Our tetherless recoil systems are installed in actual weapons allowing for the most realistic weapon simulation possible with complete freedom of movement of the trainee.



Completely tetherless and refillable recoil kit, which uses cost-effective CO2. Recoil kits require NO permanent modification of the trainee's weapon at all. The recoil kits improve shooting skills, saves ammunition dramatically reducing the cost of training with no harmful gasses, blank cartridges or lead deposits. Installation and removal can be done quickly. (Additional equipment required for refill and customer-supplied weapon.)

### STANDARD RECOIL KIT (SRK)

The SRK system differs from the TRK system by use of a tethered air supply. The air can be supplied from a separate tank or small belt pack. This allows more mobility than other tethered systems, due to the fact that the trainee can have a small and lightweight tank on their belt or back.



### RECOIL KITS THAT FIT A VARIETY OF DIFFERENT WEAPONS



**MORE MODELS COMING SOON**

VirTra is constantly developing new models. Contact us about your specific needs.



## ACCESSORIES/UPGRADES

The Top-of-the-line VirTra® simulators are compatible with a large selection of the best training accessories on the market, many of which are only available to VirTra customers. Take your training program to new heights with some of these superior training tools.

### SIMULATOR UPGRADES



16" raised platform positions trainees on-level with screens, is specially designed for the simulator

Touchscreen upgrade

Eliminates the 5 inch black border between screens

Powerful amplifier and transducers that permit trainees to actually feel sounds for increased realism

UPS battery back-up to protect system components



Laser-based OC training device

Hardware and software for low-light training, includes 2 flashlights

Laser-based TASER® training weapon

Trainee Monitor and Recording real-time monitoring, recording, and playback during debriefing of the trainees

Clip-on patented Threat-Fire® return fire simulator device delivers safe and adjustable electrical shock to simulate return fire and enhance realism

Required for wireless recoil kits and Threat-Fire® device to connect to the VirTra simulator



# THREAT-FIRE™

Patented return fire system, compact clip-on device delivers an adjustable electric impulse simulating return fire.

**ADDS REAL WORLD CONSEQUENCE TO FIREARMS TRAINING.**

**COMPLETES THE INTERACTIVE TRAINING LOOP.**

**SAFE AND EFFECTIVE.**



Threat-Fire™ return fire simulator is patented through the United States Patent and Trademark Office. Patent No. 8,016,594. VirTra and the VirTra logo are trademarks of VirTra Systems, Inc. All Rights Reserved.

## SIMULATION WITH CONSEQUENCE

**Enhances realism and effectiveness of training** - Standard setting of just 30 milliseconds of impulse adds stress and real-world consequences to training

**Lightweight** - Patented, compact, clip-on device weighs approximately one pound

**No aiming required** - Trainer can focus fully on the trainee

**Wireless** - (Requires wireless station)

**Environmentally Friendly** - Powered by rechargeable battery pack

**Compatibility** - Fully integrated into VirTra simulators

**Safe** - No eye protection or clean up required. Fail-safe impulse protection

**Adjustable** - Impulse adjustable from 0.2 to 2.5 seconds wirelessly via instructor accessory controller

## THREAT-FIRE™ SPECS

**Power Outlet:** 100-240V @ 50-60 Hz  
(clean power requested  
- no power spikes or  
brown-outs)

**Weight:**

**Size:** 2.25" W x 6.0" H x 1.75" D

### USER WARNING

The Threat-Fire™ is designed to be placed on a trainee in the belt area. The Threat-Fire™ unit is not to be attached to trainees in areas other than the belt area. It should be operated and monitored by a professional.



Threat-Fire Belt version available.



## CONTACT VIRTRA



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