VirTra

Solutions Overview

Paul Vance – Inside Sales | North America

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Importance of realistic simulation

Studies on Neuroscience and Simulation have found:

- Humans process _convincing_ fantasy and reality in similar ways
- When the mind suspends disbelief, it can process observed events and behavior as real experiences
- When the subconscious mind cannot suspend disbelief, it recognizes simulation as fantasy and reduces one's ability to process things as actual experience

So; fidelity of simulation upon many planes (visual, audible, tactile) determines how much trainees break immersion and ultimately whether or not the mind processes scenario events as "real", and learn proper behavior and tactics

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VirTra Methodology

- Focus on realism to achieve better training outcomes:

  - High resolution filming, playback and movement

  - Real actors & "cops as cops"

  - Branching scenarios & realistic outcomes

  - Real firearms & recoil

  - Producing varied consequences (ThreatFire™ device)

  - Sensory stimulation (visual, auditory & tactile)

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VirTra System Components

Judgmental Use-of Force & De-escalation

Range & Marksmanship

V-VICTA Curriculum

V-VICTA™

- Established relationships with industry leading resources (Force Science, SARRC, Vistelar...)

- **V**irtual **I**nteractive **C**oursework **T**raining **A**cademy
  - Complete coursework
  - IADLEST certified for CEUs
  - Multiple courses available:
    - Human Factors in Force Encounters
    - Contact and Cover
    - Tourniquet Application Under Threat
    - Mental Illness for Contact Professionals
    - TASER Targeting
    - High-Risk Vehicle Stops
    - More...

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V – VICTA Benefits

Average time spent on creating curriculum from scratch is 65+ hours per 1 Hour of class material

V-VICTA currently provides 60 hours of certified coursework that saves on cost

65 x 60 hours = 3,900+ hours

Modules can be broken down to as short as 15 - 30 minute interleave trainings for optimal learning

S.T.E.P. PACKAGES

Select a package and start training today

V-100

- 1-screen, 100-degree training
- Real-life scenarios.
- Extensive scenario library.
- High-resolution video.
- Full after-action review for debrief.

Starting Price:
As low as $895/month
Well-equipped: $1,500/month

V-180

- Immersive 3-screen, 180-degree training.
- Real-life scenarios.
- Multi-directional sound.
- Extensive scenario library.
- High-resolution video.
- Full after-action review for debrief.

Starting Price:
As low as $2,495/month
Well-equipped: $2,900/month

V-300

- Fully immersive, superior 300-degree training.
- Real-life scenarios.
- Works with your weapon.
- Multi-directional sound.
- High-resolution video.
- Extensive scenario library.
- Full after-action review for debrief.

Starting Price:
As low as $3,145/month
Well-equipped: $4,300/month

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SYSTEM CAPABILITIES

MULTIPLE RANGE ENVIRONMENTS
Choose from a variety of environments, weather, wind speeds, shooting positions and more.

REAL WORLD BALLISTICS
Capable of replicating live fire and shooting distances up to 2,000m. Ballistics calculator is independently verified with .02 milliradians accuracy.

V-MARKSMANSHIP"
5 screens allow for training on multiple targets, courses and ranges spread across the simulation or on individual screens.

TRAINING CONTENT LIBRARY
Multiple training points for objective-based learning.

HIGH QUALITY
Scenarios are filmed in high fidelity—including 4K and above—with real actors for maximum training immersion.

COURSEWARE
Includes: Active Shooters, De-Escalation, Emotionally Disturbed Person (EDP), High-Risk Entries and Skill Drills.

DEBRIEF/AAR CAPABILITY
Identify events, shot sequence and hit/miss placements down to one-hundredths of a second.

BUILT BY EXPERTS
Built by VirTra SMEs and external industry experts with a combined 300+ years of experience.

FOLLOW US ON

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V-300®

> " This 300-degree firearms training simulator **far surpasses any law enforcement training currently available** in the region. It provides real life training, giving officers a chance to test their skills against a variety of situations many encounter on a daily basis. "
>
> **Chief Deputy David Huckstep, Alachua County Sheriff's Office**

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VirTra V-180®

> For training, we always say, practice like you play, right? These simulate real-life scenarios. Officer safety. Safety to citizens. Safety to your fellow partner. People you work with. We're trying to achieve safety for everyone, and controlling it, in very high-stress situations.

Nick Poblocki, Firearms Instructor, Buffalo Police Department

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VirTra V-100®

> "The VirTra simulator allows Marksmanship and realistic scenario-based training to take place on a daily basis without the need for a shooting range, protective equipment, role players, safety officers or a scenario-based training site."
>
> **Officer Yong Lee, Instructor & Firearms Training Coordinator, Bellevue, WA**

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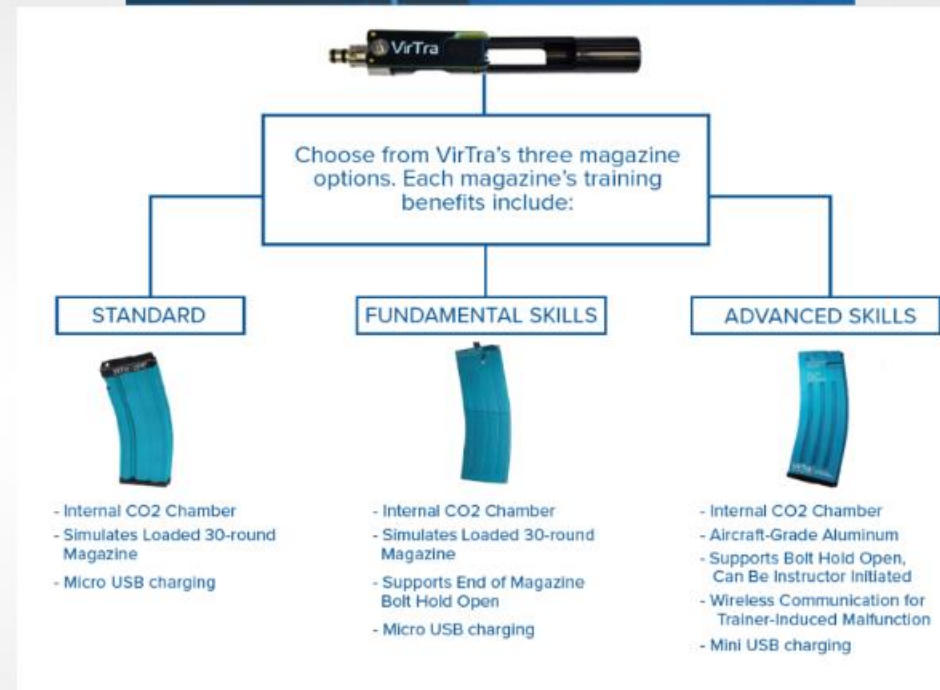
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> " By bringing our training in-house, we can control the learning environment which allows for an unmatched test of human performance, mental acuity and a new-found perspective on the individual that will push the limits of peak performance with maximum efficiency of our training time. "
>
> **Travis Haley, CEO of Haley Strategic**

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VirTra Recoil Kits

PISTOL
RECOIL KIT & MAGAZINE

RIFLE
RECOIL KIT & MAGAZINE

Choose from VirTra's three magazine options. Each magazine's training benefits include:

STANDARD	FUNDAMENTAL SKILLS	ADVANCED SKILLS

- Internal CO2 Chamber
- Simulates Loaded 30-Round Magazine

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- Simulates Loaded 30-Round Magazine
- Supports Slide Lock Back

- Internal CO2 Chamber
- Aircraft-Grade Aluminum
- Supports Slide Lock Back
- Wireless Communication for Trainer-Induced Malfunction
- Long Life Batteries for All Day Training

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- Internal CO2 Chamber
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- Micro USB charging

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- Simulates Loaded 30-round Magazine
- Supports End of Magazine Bolt Hold Open
- Micro USB charging

- Internal CO2 Chamber
- Aircraft-Grade Aluminum
- Supports Bolt Hold Open, Can Be Instructor Initiated
- Wireless Communication for Trainer-Induced Malfunction
- Mini USB charging

Training Accessories

Dry-Fire Training Weapons

- Inert/Nonfunctional training weapons
- Support both handguns and rifles

Benefits:

- Safely conduct training with no live weaponry
- High physical fidelity for accurate feel and training
- Laser accurate and compatible with all systems

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Training Accessories

VirTra Patented TASER™ Cartridges

- Patented technology allows use w/ Axon TASER CEWs
- Support X26P, X2 and now X7 series

Benefits:

- Flexible
- Train against "sloppy" behavior/snakebites
- Realistic laser trajectory/probe spread
- Support re-arcing capabilities
- Use in all use-of-force scenarios in additional to specific TASER deployment and targeting scenarios

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Training Accessories

VirTra OC Training Unit

- Laser-operated flip-top style OC training device

Benefits:

- 1:1 physical fidelity for true-feel activation
- "Safety Blue" is quick reference for training identification
- Allows for full-circle less-lethal options
- Supported in all related VirTra scenarios

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Training Accessories

VirTra Patented Threat Fire™ Feedback Device

- Electronic impulse feedback device for threat simulation

Benefits:

- Ensure tactical mistakes have feedback & pain penalty
- Represents ALL potential threats (return-fire, stabbing, explosives, dog bite, struck by vehicle, etc.)
- Adjustable impulse delivery (0.2-2.5 seconds). Medically-tested and safe.
- Light vs. heavy cover penetration simulation
- Low-impact addition to trainee equipment
- Supported regardless of training system and scenario

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Training Accessories

VirTra Low-Light Training

- Ability to turn any scenario into low-light s

Benefits:
- 1:1 physical fidelity – use real housing converted for use in our systems
- Ability to run multiple lights in real-time
- V-Lux supports smooth, real-time tracking
- Bounce lighting mirrors real life light characteristics
- Multiple layers of light to support use of real world role players and objects
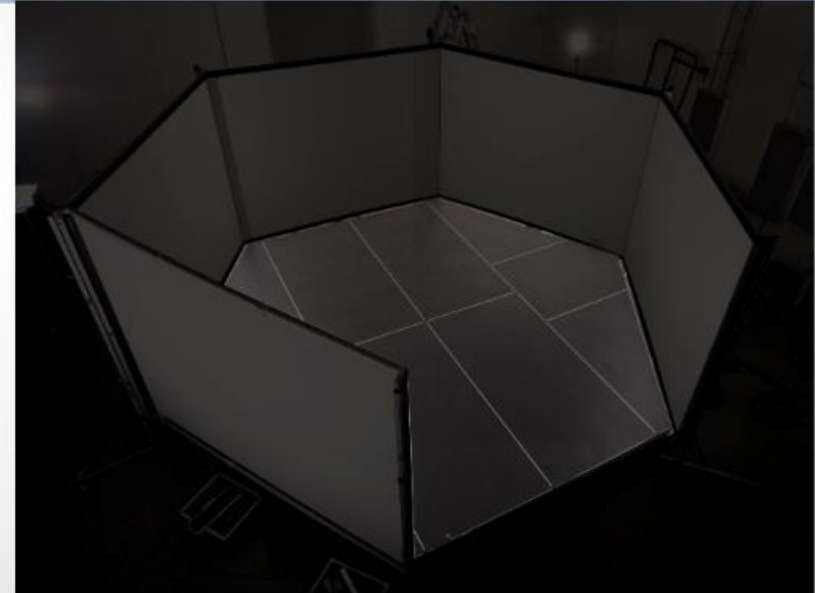- Infrared laser prevents projection-washing

VirTra

Training Accessories

Sound Package Upgrade & Training Platform

- Higher dB, lower impedance speakers and transducers w/ lifted training platform

Benefits:

- Clearer instruction & dispatch callouts
- Tactile/vibrational feedback from transducers
- Greater volume control for increased realism in both firearms and situational sound-effects
- Clear observer/instructor view of trainee actions

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Training Accessories

Trainee Monitoring and Recording (TMaR)

- Monitor, record, and playback for trainee debrief

Benefits:

- Discreet monitoring and recording
- Video aptures trainee actions for debrief (weapons transitions, body language, movements & tactics, etc)
- Audio captures trainee interactions and instructions (de-escalation, verbal commands, etc)

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SYSTEM CAPABILITIES

SCENARIO AUTHORING
Create or modify environments with localization options to customize training to department needs.

VIRTUAL REALISM
Adjustable traffic density, natural hazards, roadside obstacles, weather and time of day.

REAL-WORLD PHYSICS
Real-world accuracy for acceleration, traction, skidding, sliding, etc. based on speed and conditions.

MULTIPLE ENVIRONMENTS
Urban, rural, residential and highway environments or the Test Facility Track.

CUSTOMIZATION
Departments can select a left- or right-hand system. Customized for miles or kilometers and automatic or manual transmission.

SKILL TRANSFER
Simulation exercises teach basic and advanced driving skills and defensive driving techniques.

PHYSICAL FIDELITY
Recreates the sensation of driving over obstacles, uneven road surfaces and the regular pitch and roll of the vehicle.

EXTRA ENHANCEMENTS
Proprietary Recognition Stimuli Feature causes signs to enhance to increase driver's cognitive skills.

VEHICLE MODELS
Models include: Ford Police Interceptor®, Ford F-150®, Charger Pursuit®, Dodge Ram 2500® and more.

DEBRIEF/AAR
Debriefing begins automatically upon scenario completion and includes a timeline of events and student inputs.

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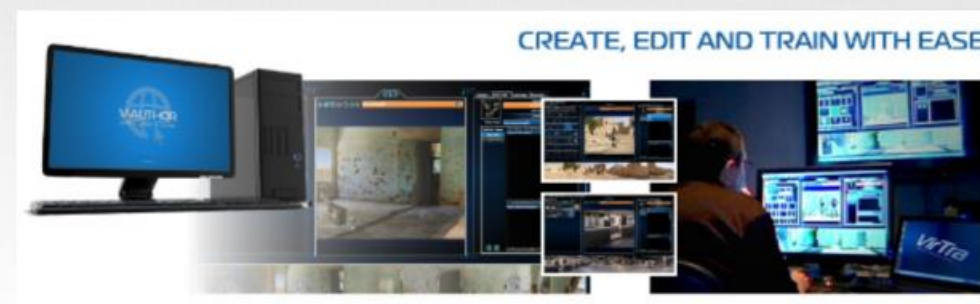
VirTra V-AUTHOR™
virtra.com/v-author/

Fully customizable scenario authoring suite

Standard: pre assembled non-CGI assets, ability to use custom panoramic environments

Pro: Standard features, plus filming/editing software for custom filmed scenarios

Benefits:
- Create scenarios specific to a department and the environment it's officers work in
- Fully interactive non-CGI character assets show real body-language, facial characteristics, physical indicators, etc.
- Assets support all different use-of-force states (Firearm vs. OC vs. TASER / de-escalation)

CREATE, EDIT AND TRAIN WITH EASE

Shoot and import your own panoramic background.

Drag and drop custom characters with ease!

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