Explosive Blast Simulators
Artillery Simulators
Battlefield Effects
IED Training Aids

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Explotrain has led the industry in the production and development of non-explosive Blast Simulators and Battlefield Effects since 1998.

As a company, Explotrain has invented, developed and produced much of the technology being used today to train EOD and C-IED operations around the world. Thousands of Explotrain Simulators and Training Aids are currently used in several countries to simulate various artillery, explosive, and small arms fire battlefield effects in addition to the traditional EOD/C-IED training applications.

As the EOD/C-IED fight evolves and enemy tactics become more refined, our customers are also faced with another battle; budget cuts. Limited resources require our customers to continuously do more with less. Our original X-0 Series of Blast Simulators were developed to provide training solutions and improvements in logistics, realism, and safety over 15 years ago. This same company philosophy has led us to respond to current changes in our customers’ needs.

As training and education become more interrelated, we realize that training tools that are used in the classroom need to seamlessly transition from an instructional setting to indoor/urban scenarios or full blown outdoor simulated combat settings. Today we are pleased to present our latest product lines that continue to provide our troops with new and unique technologies to give them the best training they can receive.
Inert Functional IED and Wireless Triggering Device Interface

Explotrain IFIEDs provide state of the art IED simulation capabilities

- Inert simulated explosives
- Real world components
- Real world sensors
- Real world performance
- Accurate threat replication
Real world devices and triggers are used with X-CAP Transmitters and inert simulated explosives. Appearances are virtually indistinguishable from the real thing, both visually and with X-ray. The electronic performance mimics real world devices in timing and sensitivity.

The accurate functionality and authentic construction of these IED Training Aids provides a significant improvement over traditional inert devices, and provide the best training tools available.

Specifications

- Real world components and construction
- Absolute realistic simulation
- Exactly duplicates devices, tactics, and triggers of emerging IED threats
- Completely inert
- Controls one or more X-0 or XP simulators
- X-CAP™ transmitter replaces real world device initiator
Blasting Cap Transmitter for IFIEDs™ and IED/EOD Training

The X-CAP Blasting Cap Transmitter™ provides state of the art EOD training and IED simulation capabilities.

• Realistic appearance
• Standard length and diameter
• Response time similar to commercial caps
• Easy to insert into simulated device circuitry
• Wirelessly interfaces with X-0 and XP Simulators
The X-CAP Transmitter replaces the inert blasting caps used in simulated devices allowing the electronic circuitry to transmit a firing signal to X-0 or XP Series Simulators when triggered. The X-CAP Receiver can be used in classroom settings to produce audible buzzer effect upon triggering or connected to an X-0 or XP Series Blast Simulator to produce realistic blast effects in indoor, urban, and outdoor environments. Eight different color coded transmitters are available to allow the X-CAP Receiver to differentiate between multiple X-CAPs.

Specifications

- Completely inert
- 433 MHz
- Up to 50m open air range
- Controls one or more X-0 or XP Simulators
- Simulates response time and sensitivity of commercial caps
- Rugged construction for multiple use applications
- Same length and diameter as commercial blasting caps
Multiple Output Simulator and Training / Instructional Aid

The X-PANDR Box provides IED, EOD and SWAT Instructors multiple options for indicating the triggering of an explosive device.

- Multiple outputs for simulation and teaching
- Flash bang simulation capability
- Includes X-CAP Blasting Cap Transmitters
- Rechargeable battery power supply
- Can be used to trigger other simulators
The X-PANDR Box provides the trainer or instructor with multiple outputs to indicate the triggering of a simulated explosive device: XP-360 powered blast and shockwave using compressed air or CO2, LED flash, 90dB buzzer, 12 volts DC, or normally open relay closure. A 15,000 lumen LED flash and XP-360 blast option is also available to simulate the report of a flash bang grenade. These user selectable outputs allow trainers, instructors, and operators to use the X-PANDR Box in a classroom setting as an instructional aid one moment and as a tactical effects simulator in a field training exercise the next.

Specifications

- 18" x 11" x 7" rugged case
- Uses X-CAP Blasting Cap Transmitters
- Rechargeable battery power supply

User Selectable Outputs

- XP-360 blast and shockwave (compressed air)
- XP-360 blast and 15,000 lumen flash (Flash bang simulation)
- 90dB buzzer
- LED flash
- 12 volts DC
- N/O Relay closure
Pneumatic Ultra Loud Shockwave Effect (PULSE™) Simulator

The XP-357™ Pneumatic Shockwave Device produces a tuned Shockwave and loud Blast Effect using compressed air or CO2 at 100–150 PSI.

• Loud blast and shockwave effect
• Uses compressed air or CO2
• No burst discs or fragmentation hazard
• Completely submersible
• Automatic refill capability
Unlike traditional pneumatic or CO2 powered devices that rely on bursting discs or containers, the XP Series produces a tuned shockwave effect with no fragmentation hazard. Rapid repeat firings are possible with no need to “reload” the XP-357, simply refill and refire in a matter of seconds.

Additionally, the PULSE shockwave effect creates a unique tactile impulse or impact to create additional levels of training. The XP’s small size, roughly the same as a 1 liter water bottle, allows it to be concealed almost anywhere: under a workbench in an HME lab, beneath the seat of a vehicle, or even inside simulated IEDs themselves such as a pipe bomb, artillery shell housing, or fuel jug.

Specifications

- Operated by compressed air or CO2 (100-150 PSI)
- Simple 9-24 Volt DC trigger signal operation
- Fill with standard tire inflator Schrader valve attachment
- Safe Indoors or in vehicles
- Non-Pyrotechnic
- 3.5” diameter and 10” long
- No burst discs to reload, can be automatically refilled and refired in seconds
Submersible Large Pneumatic Battlefield Effects Blast Simulator:

The XP-870 is a pneumatic shockwave IED simulator without any attached gas bottles, hoses, wires or control modules.

The XP-870 produces a tuned shockwave and loud blast effect using compressed air or CO2 at 100–150 PSI. Unlike traditional pneumatic or CO2 powered IED simulators which rely on bursting discs or containers, the XP-870 produces a tuned shockwave effect with no fragmentation hazard. Rapid repeat firings are possible with no need to “reload”, simply refill and re-fire in a matter of seconds.
Additionally, the PULSE™ shockwave effect creates a unique tactile impulse to create additional levels of training. The XP-870 can be concealed almost anywhere: under a workbench in an HME lab, and even submerged.

Not only is the XP-870 able to be operated in the rain, but it is fully submersible*. It can consistently propel water up to 50ft in height when slightly submerged.

Specifications

- 8.5” Diameter
- 12.75” Length
- 116dB
- Pneumatic (Compressed air or CO2)
- Uses standard Schrader valve attachment
- Non-Pyrotechnic
- No burst discs
- Standard 9-24V DC trigger signal operation
- Uses X-CAP Transmitters
- Compatible with X-CAP

*Requires additional maintenance procedures
Compact Sized Explosive Blast Simulator

Easily concealed or wall mounted for urban training environments

- Compact size for urban environments
- Extremely low operating costs
- Can be mounted on walls or vehicles
- Can be partially buried or submerged
- Long Range Remote Control
The X-OHW can be easily mounted to a wall or a vehicle or otherwise concealed and used to produce 90-120+dB blasts to simulate IEDs and explosive effects for training scenarios, particularly in urban environments. Initiation methods include Explotrain’s Long Range Transmitters, X-CAP Blasting Cap Transmitters, and hard wired switches such as trip wires or pressure plates.

Specifications

- 17 inch tall sound chamber
- 90-120+dB adjustable blast report
- Fire up to 100 shots per minute
- Automatic temperature compensation
- 800m remote control
- AA battery power supply
- DOD 60559.9-STD and AFMAN 91-201 Compliant
Mid-sized Explosive Blast Simulator

The Model X-05 uses Explotrain's patented propane/oxygen system to create realistic explosive battlefield effects.

- Realistic yet safe explosive effects
- Extremely low operating cost
- Easily concealable
- Can be partially buried or submerged
- Long range remote control
The explosive blasts produced by the X-05 result in an adjustable 100-120+dB punch of sound that is felt as well as heard, providing the necessary realism required for effective training.

The X-05 produces adjustable blasts of 100-125+dB with an accompanying shockwave for extremely realistic yet safe simulation of the effects of IEDs, artillery, roadside bombs, etc. The waterproof construction and separate gas supply allow the X-05 to be easily concealed in a variety of training scenarios. Initiation methods include Explotrain’s Long Range Transmitters, X-CAP Blasting Cap Transmitters, and hard wired switches such as trip wires or pressure plates.

**Specifications**

- 35lb-27 inch tall Sound Chamber for one man carry
- 100-125+dB adjustable blast report
- Fire up to 60 shots per minute
- Automatic temperature compensation
- 800m remote control
- AA battery power supply
- DOD 60559.9-STD and AFMAN 91-201 Compliant
The World’s Largest and Loudest Explosive Blast Simulator

The Model X-OMG produces the extreme level of blast effects required to effectively train mounted personnel.

- High level and safe blast effects
- Extremely low operating costs
- Shock mounted sound chamber
- Vertical or directed blasts
- Long range remote control
The X-OMG’s shock mounted sound chamber is more than twice the size of any other Explosive Simulator available and produces 120-130+dB sound levels and blast pressures need to accurately replicate large roadside bombs, close air support or VBIEDs.

Initiation methods include Explotrain’s Long Range Transmitters, X-CAP Blasting Cap Transmitters, and hard wired switches such as trip wires or pressure plates.

Specifications

- 37 in tall shock mounted sound chamber
- 120-130+dB adjustable blast report
- 1400 cu-in shock mounted sound chamber
- Fire up to 20 shots per minute
- Automatic temperature compensation
- 800m remote control
- AA battery power supply
- DOD 60559.9-STD and AFMAN 91-201 Compliant
State of the Art Machine Gun Simulator

Explotrain Model X-Calibre™ simulates 5.56mm, 7.62mm, and .50 caliber automatic weapons fire

- Interchangeable Barrel - multi caliber simulations
- Weatherproof construction
- Temperature independent operation
- One man portable design
- Remote control and hardwired triggering options
The X-CAL produces the realistic muzzle flash and report of a variety of different automatic weapons using a proprietary oxygen/propane system. The unique Expansion Chamber eliminates the need to adjust gas delivery pressures in response to changes in temperature. The remote control and hardwired trigger options allow the X-CAL to be used in a variety of training scenarios from complex attacks to hand carried "run and gun" operations.

### Specifications

- 16lb 33in long main body (without barrel attachment)
- Simulates 5.56mm, 7.62mm, and .50 caliber fire rates and report
- 800m remote control with Explotrain's X-MIT and X-LRT Transmitters
- Hand carried configurations available
- Single shot sniper fire simulation capability
- Cold-Fire™ technology for reliable operation
- AA battery power supply
Explotrain Model X-AK47

Provides a man-portable simulation of AK-47 small arms fire

- Self-contained system, fully portable
- Backpack assembly contains oxygen, propane, and power supply
- Main fuel shutoff valve operated by grip safety switch
- Adjustable fire rate
- Realistic AK-47 report, flash, and appearance
The X-AK47 provides a man-pak portable simulation of AK47 small arms fire. The oxygen and propane gas supply are housed in a backpack assembly along with the power supply and control systems. A “dead man” style switch in the grip controls a shut off valve for the fuel supply as an added level of safety. A temperature sensor on the combustion chamber prevents overheating, and software settings create firing delays for magazine changes for a more realistic simulation.

Specifications

- Safety features include primary fuel shutoff valve, grip safety, temperature sensor, and flashback arrestors
- Welding grade oxygen and disposable propane cylinders
- Integrated software simulates time needed to change magazines
- Audio signature replicates AK-47
- Realistic flash and visual appearance
- Weapon constructed of steel and wood
Rocket On Wire RPG Simulator:

CO2 Powered 80MPH rocket on Guide Wire

Safely subject your students to the realism of shooting a Rocket Propelled Grenade (RPG) even when they are indoors. You control the flight path and impact zone with our X-ROW RPG simulator. Just anchor the guideline to a targeted building or object and squeeze the mechanical trigger. The guideline ensure the highest degree of safety and control available. When launched, the X-ROW produces both the visible and audible effects of an RPG being fired.
This RPG Simulator replicates the firing of a Rocket Propelled Grenade—SAFELY. The transport nylon Guide Wire ensures yet another aspect of absolutely safe battlefield effects in your training environment allowing you to better replicate the range of weapons soldiers are exposed to in theater.

**X-RPG™ Kit with Impact sensor and X-OHW™**

Used as an RPG impact simulator in conjunction with the X-OHW, this is the smallest of our propane-oxygen blast simulators in production. When the X-ROW is fired, the rocket travels along the wire and impacts an included sensor, setting off the X-OHW and simulating the explosion caused by an RPG. It can be configured to produce anywhere between 90-120dB depending on the training environment. Please see our X-OHW for further information and specifications.

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**Specifications**

- Speeds in excess of 80 MPH
- Flight distance of more than 50 meters
- Powered by disposable CO2 cartridges
- Includes hard case for transport and storage
- Includes Launcher, Wire Guide, Rockets and CO2 Propellant cartridge
The X-ACT™ is a tablet-based application that provides an entire Battlefield Effects integrated training capability utilizing complete control over the entire scenario.

This revolutionary technology provides the ability for an instructor to fire any simulator on-demand, change the settings of each simulator, fully customize any type of firing sequence with multiple simulators, and much more.
The X-ACT can be used to change settings of simulators in real time such as firing rates, safety time delays, etc. The X-ACT also monitors the performance of each simulator and can report problems or pending issues with simulator components such as valves or spark plug ignition and provide troubleshooting support and diagnostic information.

Capabilities

• Controls and monitors up to 16 Simulators
• Arm, disarm and fire simulators with the touch of a button
• 800m line-of-sight operation
• Portable and battery powered
• Full customization with uploaded aerial photos or maps
• Drag & drop simulators on uploaded maps
• Programmable firing sequences
• Change settings and parameters on simulators
• Monitors current and voltage for all simulator components
• Troubleshooting wizard for help with diagnostics
Realistic Training, Realistic Sound, Realistic Safety, Realistic Results

The ExploDrone™ System provides a comprehensive ability to realistically simulate drone based IED attacks using Explotrain’s patented IED simulation technologies. Two classes of drones are available to meet all of your mission needs and training requirements.
**OSPREY CLASS**
The larger Osprey Class ExploDrone systems provide the capabilities of dropping multiple Inert Dropped Aerial Munitions (IDAM™). The Osprey Class can also carry pneumatic IED simulators that provide realistic explosive effects simulating drone born IEDs or chemical weapon dispersal devices. The IDAMs interface with any of Explotrain’s Battlefield Effects Simulators to create realistic explosive effects on impact.

Osprey class ExploDrones are based on hex or octocopter drone platforms or drones assembled in the US from commercial components.

**VIPER CLASS**
The smaller Viper Class ExploDrone systems provide an economical way to simulate the basic elements of a drone based IED attack in an expandable platform that can grow with your training needs. Functional IDAMs are included with each Viper Class model. These IDAMs have the ability to interface with any of Explotrain’s Battlefield Effects Simulators that can be purchased to create realistic explosive effects on impact.

Viper Class ExploDrones are based on both commercial and “home made” drone systems, to provide a versatile array of realistic simulation platforms.

*Models containing no DJI brand components available to comply with recent US Army directives.*

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**Capabilities**

**OSPREY CLASS**
- Simulated Airborne IED effects with Pneumatic Simulators
- Drop multiple IDAMs on demand
- Optional programmable autopilot of pre-planned routes
- Operator alert to simulated UAS counter-attacks

**VIPER CLASS**
- Simulated drone-based IED attacks with IDAMs
- Multiple types of functional IDAMs available
- Expandable training platform that can grow with your budget and needs
- Operator alert to simulated UAS counter-attacks
- Optional programmable autopilot of pre-planned routes
Product
Application

Teaching / Classroom
X-PANDR, IFIEDs, X-CAP, X-WIIFE

Indoor Training / Testing
X-PANDR, IFIEDs, X-CAP, X-WIIFE, XP-357, XP-870, X-OHW*, X-CAL*, X-AK47

MOUT / Urban Training
IFIEDs, XP-357, XP-870, X-OHW, X-02, X-05, X-CAL, X-AK47, X-RPG

Field Training / Mounted Troops
IFIEDs, XP-357, XP-870, X-OHW, X-02, X-05, X-OMG, X-CAL, X-AK47, X-RPG

*limited indoor use due to high noise levels