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425 East Hollywood Blvd Suite A  
Mary Esther, FL 32569  
(850) 243-4411 (850) 243-5279 fax  
Email: [support@explotrain.com](mailto:support@explotrain.com)  
[www.explotrain.com](http://www.explotrain.com)

# Explotrain, LLC

## Explosive Blast & Training Simulator



*Providing Training Simulation Solutions to  
Government and Industry Worldwide*



PATENT PENDING

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# Explosive Blast & Training Simulator

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## Introduction

The Explosive Blast & Training Simulator (EBTS) grew out of the need to replace the use of live explosive charges in certain training environments. The requirement was to provide a safe and realistic replacement for live explosives used as monitor charges in Explosive Ordnance Disposal/Improvised Explosive Devices (EOD/IED) training scenarios. The EBTS does this with an electronically controlled propane and oxygen cannon. The unit is mounted on a mobile cart and is capable of operating in all weather conditions.

Explotrain has provided equipment demonstrations and technical briefings to Government Agencies over the last five years and has incorporated their requirements into the manufacture and design of the current EBTS. These Simulator systems are now in service with the US Department of Defense Explosive Ordnance Disposal (EOD) School, US State Department Explosive Incident Countermeasures Course, and the Department of Justice Federal Law Enforcement Training Center. They are providing a safe, realistic, timesaving, and cost-effective alternative to live explosive monitoring of training scenarios.

## Operation

The EBTS is controlled by an electronics package or laptop computer that accepts a variety of fuze sensor inputs from training devices such as mines, ordnance, IED's or boobytraps. These training devices contain sensor(s) that are activated by pressure, disturbance, time, temperature, sound, light, or other physical actions. The firing signal is sent from the sensor(s) inside the training device to the electronics package of the EBTS via a miniature radio frequency (RF) transmitter. The EBTS fires approximately one second after receiving the fire signal. The result is a 120 dB (at 1 meter) "BANG", pressure wave and visible fireball.

## Features

### Easy To Use

- Suitable for areas where explosives are prohibitive.
- Sets up in minutes.
- Completely portable, easy to deploy.
- Fully compatible with any training scenario.

### Safe

- Eliminates hazards associated with live Class 1 Explosives.
- No fragmentation hazards.
- No explosive quantity distance requirement.
- No misfires (No wait time).

### Easy to Maintain

- Does not require specialized explosive storage or transportation.
- Sealed maintenance free rechargeable power supply.
- Completely weatherproof.
- Uses readily available oxygen and propane.

### Cost Effective

- Reusable
- Environmentally friendly (No impact studies).
- Significant reductions in hazardous materials paperwork.
- Multiple training devices can be monitored by a single EBTS.
- More economical than using live explosives, both in time and materials.

### Performance

- Improved student proficiency.
- Highly accurate simulation.
- Allows field training with minimal support.
- Provides for objective standardization of training.
- Provides continuous and instantaneous feedback.
- Allows self paced, all weather, around the clock exercises.
- Maintains accurate record of performance.

## Configuration Options

### *The EBTS is available in two configurations:*

#### **Standard Configuration Includes:**

- EBTS controlled by RF electronics package.
- One handheld arming/firing control transmitter.
- Three sensor transmitters for use in training devices.
- One year limited warranty and technical support.

#### **Computer Controlled Option Includes:**

- Laptop computer and controller software for EBTS.
- Digital video time stamp recording system.

## Training Devices

Training Devices to accompany the Explosive Blast & Training Simulator are available to meet every need. These devices can simulate Weapons of Mass Destruction (WMD) chemical, biological, radiological and conventional devices triggered in response to time, pressure, pressure-release, tension, tension-release, light, sound, remote control, movement, proximity, temperature, vibration, magnetic, active infrared, passive infrared, and other physical and environmental actions.

Explotrain can manufacture and assemble your custom devices and deliver a total training scenario right to your doorstep.

## Lease Options

If you have an occasional or one time requirement for our simulator system, and would like to use our products in your next exercise, leasing options are available under our Scenarios-to-Go Program. Please call us for a quote.

## Cost

**Standard Configuration - \$8500\***

**Computer Controlled Option - \$10,000 - \$15,000\*\***

\* Shipping and Handling an Additional \$250 inside the US.

\*\* Custom Configured, call for Quote.

## Availability

Explotrain LLC has no authorized dealer or distribution network and is the exclusive manufacturer of the EBTS and related supplies and equipment. All orders must be obtained Factory Direct from Explotrain LLC.

## Additional Information

Questions about the Explosive Blast & Training Simulator should be directed to Mr. Dean Preston or Mr. John Taffe at 850-243-4411 or [support@explotrain.com](mailto:support@explotrain.com).