



OPCON

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DEFENSE

PREPARED FOR ANYTHING MEANS TRAINING FOR EVERYTHING.

Non-Pyro Blast & Smoke Technology for Real-World Readiness | www.opconus-fire.com

Explosive Design with Safety in Mind

**Non-Pyro Blast &
Smoke** Technology for
Real-World Readiness



www.opconus.com

Firefighter Training Support

OPCON Products & Capabilities

OPCON offers a wide array of Firefighter Training Support through on-site explosive blast simulation.

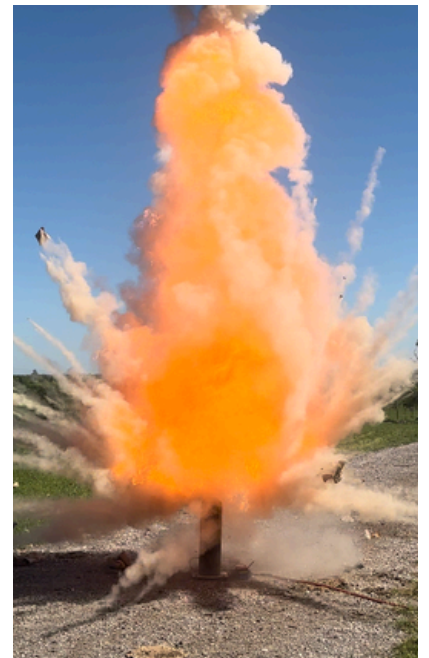
Explosive Blast Simulators offer a safe and cost effective alternative to Fireground Training Scenarios.

Our subject matter experts work directly with your training staff or facility personnel to provide the most realistic explosive simulations while ensuring safety for all participants.



Explosive Blast Capabilities

- Vehicle Fire/ Extrication
- Backdraft
- BLEVE



Explosive Blast Simulators

EXS-80-FD



EXS-60-FD



EXS-40-FD



The EXS-80 is a single-man portable, directional blast simulator designed for use in vehicle bumper strut explosions, backdraft scenarios, and medium sized BLEVE.

The EXS-60 is a self-contained, low profile blast simulator designed for vehicle engine and EV battery explosions.

The EXS-40 is our smallest blast simulator designed for use in close-proximity environments such as airbag deployment.

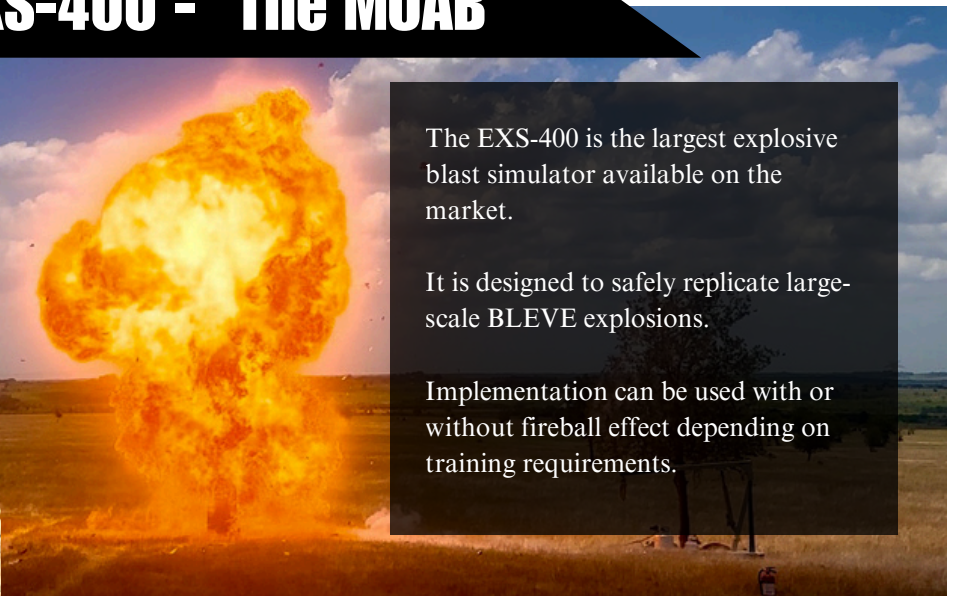
EXS-400 - "The MOAB"



The EXS-400 is the largest explosive blast simulator available on the market.

It is designed to safely replicate large-scale BLEVE explosions.

Implementation can be used with or without fireball effect depending on training requirements.



Vehicle Fire / Extrication



OPCON's line of explosive blast simulators can safely replicate any explosion firefighters may encounter. Some of the most common having to deal with vehicle explosions:

- Combustible Engine/EV Battery Explosion
- Bumper Strut Explosion
- Magnesium Steering Column Explosion
- Airbag Deployment

Electrical Vehicle / Thermal Runaway



As Electric Vehicles (EV) gain popularity, firefighters more frequently face the risks associated with Thermal Runaway. The failure of Lithium-ion creating a chain reaction of uncontrollable battery temperature and internal pressure increasing inside the cell or pack, ultimately leading to gas leakage, fire, and explosion.

Our EXS-60-FD is a low-profile, self-contained blast simulator designed to slide under the engine bay of a training vehicle to safely replicate combustible engine and Lithium-Ion Battery Explosions. Its design features enable it to be safely implemented near live burn exercises.



Backdraft

- Commercial/Residential Incidents
- Commercial Box Trucks/Container Transport Vehicles
- Shipping Containers (I.E. Shipping Ports, Trains, etc)



BLEVE

- Unknown Contents - Warehouse
- Residential Propane/Natural Gas Explosions
- Commercial Vehicle/Compressed Gas Transport
- Commercial Property - Compressed Gas Tanks



Disaster Scenarios

Our simulators are ideal for disaster training scenarios, both for initiation and continuous stress inducers.

- Terror Attacks
- Collapsed Buildings
- Natural Disaster Aftermath
- Pipeline/Refinery Explosions
- Mass Casualty Training Support

EXS-400 is designed for large disaster initiation.



Moulage

OPCON's team of special effects experts creates realistic injuries and situations for immersive medical training in simulated high stress environments.

We can develop a moulage package specific to the training objectives including, but not limited to, any of the following:

- Burns/Chemical Burns
- Compound Fractures
- Realistic Smells
- Gunshot Wounds
- Mangled Limbs
- Arterial Bleeds



OPCON Products



EXS-40-FD

10lbs

The EXS-40 is a lightweight, single-man portable, explosive blast simulator designed to be used in close proximity training when working inside structures or vehicles.

- ✖ **Magnesium Steering Column Explosion**
- ✖ **Bumper / Wheel Strut Explosion**
- ✖ **Small Engine Explosion**



EXS-60-FD

55lbs

The EXS-60 is a completely self-contained, single-man portable, wirelessly controlled explosive blast simulator designed to replicate Electric Vehicle Explosions

- ✖ **Vehicle Engine Explosion**
- ✖ **Thermal Runaway**
- ✖ **Electric Vehicle Battery Bank Explosion**



EXS-80-FD

35lbs

The EXS-80 is a single-man portable, wired or wirelessly controlled explosive blast simulator designed to replicate backdraft and small BLEVE explosions.

- ✖ **Backdraft**
- ✖ **Small - Medium Sized B.L.E.V.E.**



EXS-400-FD

280lbs

The EXS-400 & EXS-200 are the largest explosive blast simulators available on the market. The specialized nature of these devices allows for large scale explosive simulation.

Ask about permanent installation!

- ✖ **Large Scale B.L.E.V.E.**

SIM-SMK

Wireless Smoke-Device Initiator



OPCON Smoke Devices deliver dense, non-toxic smoke for realistic firefighter training environments. Safe for use around role players and compatible with live-burn evolutions, they rapidly fill training structures in seconds and maintain heavy smoke conditions for extended operations.

Ideal for search and rescue drills, SCBA confidence, RIT training, ventilation, and zero-visibility navigation, OPCON smoke creates authentic stress and complexity without pyrotechnics or hazardous chemicals.

Key Benefits

- Wireless Initiation
- Can be used in NO-BURN Structures
- Non-toxic and safe around personnel
- Live-burn compatible
- Fills building in seconds with long-lasting, dense smoke



Scenario Sound Kit



Referred to by instructors as “The Chaos Box,” the OPCON Wireless Scenario Sound Kit delivers powerful, crystal-clear audio for firefighter training, including scene size up, smoke-filled search operations, casualty sounds integration, fire alarms and sounds, command-and-control simulations, fire-ground communications, and large-scale multi-agency exercises. It also serves as a wireless PA system for recruit graduations, live burn safety briefings, competitions, and community events.

Includes

- Premium rugged hard case
- 12" outdoor-rated wireless speaker
- Wireless Audio Receiver kit
- Wireless microphone
- Tripod

This isn't just a training tool, it's a complete wireless PA system built for real-world use.



Transform Your Training



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