



# 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](http://www.opconus-fire.com)

# Explosive Design with Safety in Mind

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



[www.opconus.com](http://www.opconus.com)

# Firefighter Training Improved

## OPCON Products & Capabilities

OPCON offers a wide array of Firefighter Training Products through on-site explosive blast simulation, chaotic on scene noises and a revolutionary change in smoke simulation.

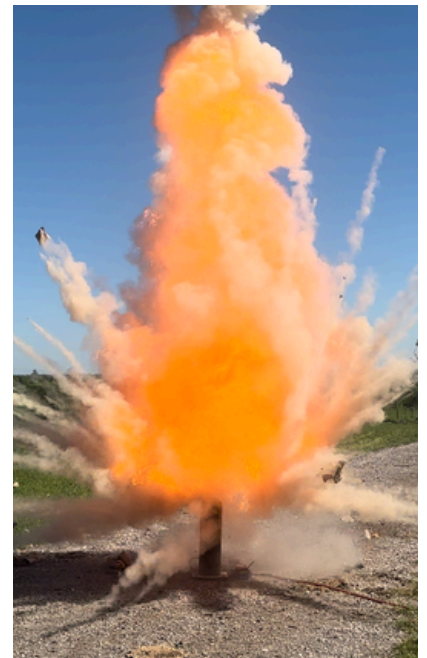
We provide a safe and cost effective alternative to current options in Fireground Training Scenarios.

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



### Explosive Blast Capabilities

- **Vehicle Fires / Extrication**
- **Backdraft**
- **BLEVE**
- **And more...**



# 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.**



# 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 strut explosions.

**STAY BACK  
50 FEET**



## EXS-400 "The BEAST"

BEAST stands for BLEVE Explosion Advanced Simulation Trainer and is the largest explosive blast simulator available on the market.

It is designed to safely replicate any type of large-scale explosions.

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





**EXS-400 "BEAST"**  
**BLEVE**



**Backdraft**  
**EXS-80 "Blast Cart"**



**EXS-80 "Blast Cart"**  
**Backdraft**



**EXS-40-FD**  
**Magnesium**  
**Steering**  
**Column**



**EXS-80 "Blast Cart"**  
**Backdraft**

**with SIM-SMK**



**EXS-60-FD**  
**EV Battery Explosion**

# 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, Wheel, & Hood 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



# 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.**

# The Chaos Box



OPCON's Wireless Scenario Sound Kit delivers powerful audio for firefighter training, including scene size up, smoke-filled search operations, casualty sounds integration, fire alarms and sounds, heavy vehicle traffic, 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.**



# SIM-SMK

## Wireless Smoke-Device Initiator



BLACK WHITE YELLOW RED GREEN BLUE

Do you have reliability issues with your current smoke simulators? OPCON Smoke Devices offer a new and dependable design. The SIM-SMK delivers dense, non-toxic smoke for realistic firefighter training environments that act and look like real smoke. 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

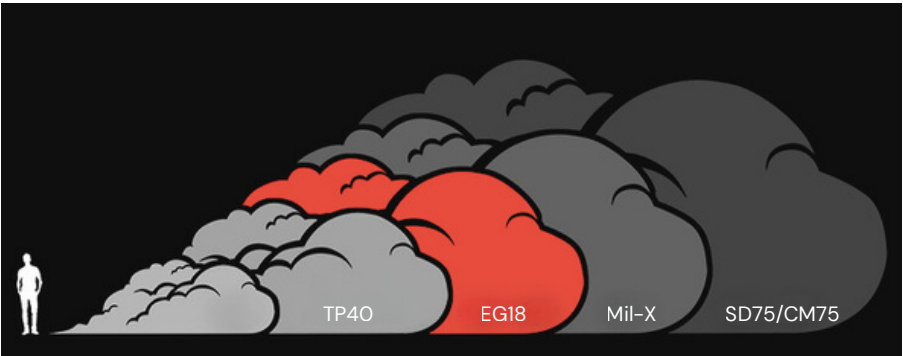
- **Reliable & Low Maintenance**
  - **Does not saturate equipment with residue**
- **Wireless Initiation:**
  - **Does not require direct power like fog machines**
- **Acts like real smoke** at the touch of a button
- **Can be used in BURN & NO-BURN Environments**
- **Non-toxic and safe around personnel**
- **Fills structures in seconds** with long-lasting, dense smoke



# Smoke Effect Devices



Product	Initiation	Duration (apx)	Coverage
EG18	E-match	90 Sec	70,000 cu/ft
SD57	E-match	90 Sec	310,000 cu/ft
CM75	E-match	150 Sec	290,000 cu/ft



# Blast Effect Devices



OPCON’s Powder Containment Shells (PuCS) deliver safe, high-impact visual cues for firefighter training. Each biodegradable, weather-resistant PuCS adds realistic smoke, burst, or flash effects without heat or sustained flame.

Earth, Black, and CBRN profiles enhance visibility and signal cues in all environments, while Night Fire and White Phosphorus Flash PuCS create a bright, momentary fireball that extinguishes instantly, adding visual intensity without thermal risks.



# Transform Your Training



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