



**HM PROTECTION**  
Practice Makes Perfect Safety

# HMP-E Portable Simulated Fire Extinguishing Training System (Basic)

## USER MANUAL

Eco-friendly / Flexible / Cost-Effective



HM PROTECTION INC.



**HM PROTECTION**

*Practice Makes Perfect Safety*

Welcome to the HMP-E Portable Simulated Fire Extinguishing Training System!

We are delighted that you are choosing us in enhancing fire safety and emergency preparedness through innovative hands-on training. Please take some time to familiarize yourself with the user manual and safety guidelines to ensure optimal use and performance of the equipment. Should you have any questions, our team is always available to assist you.

When we work together, we create safer, more prepared communities.

Sincerely,

**HM PROTECTION INC**

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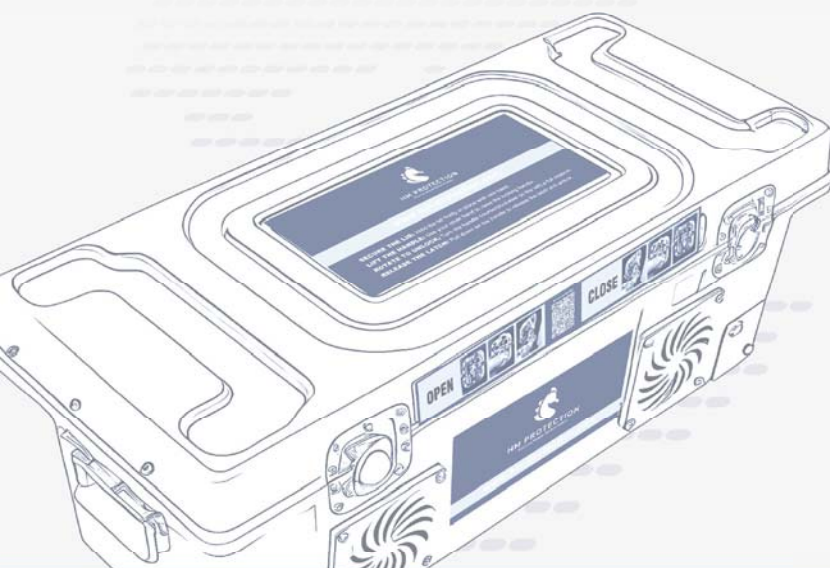


# 1. HMP-E INTRODUCTION

The HMP-E Portable Simulated Fire Extinguishing Training System integrates various advanced technologies including sound, light, and electricity to create realistic small fire scenarios. Using scientifically backed and eco-friendly methods to simulate real fire sources and fire extinguisher operations, HMP-E system provides a unique immersive and interactive hands-on experience that leaves trainees with a profound impression.

With outstanding stability and operational efficiency, the HMP-E system guarantees 100% trainee participation. Through unlimited repetitions, trainees can develop muscle memory, ensuring that they are fully prepared, both psychologically and behaviorally, to respond confidently, effectively, and safely in cases of small fires.

HMP-E's unlimited repetitions and ease of use are especially valuable for fire & life safety educators who need to conduct over 100 fire training sessions annually. Whether you are a first-time learner or an experienced professional, HMP-E will be your reliable partner in enhancing fire safety skills and safeguarding lives.



## 1.1 VISION AND MISSION

### VISION:

Our vision is to create a safer and more resilient world where everyone is prepared and confident to respond in case of small fire emergencies.

### MISSION:

Our mission is to empower people worldwide with essential fire safety skills to handle small fires, ensuring the protection of lives and properties.

## 1.2 SYSTEM ADVANTAGES

“Portable fire extinguishers are a critical first line of defense against small fires when used by trained personnel.”

“A portable fire extinguisher can save lives and property by putting out a small fire or containing it until the fire department arrives.”

Fire safety training for employees is one of the most important investments a business can make. Learning how to handle small fires safely and effectively is important. Even though fire extinguishers are common around the world, very few people really know how to use them properly. This is our mission, to bring an eco-friendly, flexible, and efficient fire safety training system to fire and safety educators worldwide.

After researching the situation of the traditional fire extinguisher training market, and looking at different solutions available, we are excited to provide our simulated training system.





### Why Choose This Training System Over Traditional Methods?

The HMP-E Portable Simulated Fire Extinguishing Training System offers numerous advantages over traditional fire safety training methods, making it a superior choice for modern fire & life safety education. Here are some key reasons why our system stands out:

- 1. Realistic Simulation of Fire Scenarios:**

Unlike traditional methods, which often rely on theoretical or static demonstrations, the HMP-E system offers dynamic, interactive simulations of real-life fire scenarios. This provides a more immersive and realistic training experience, helping trainees to better prepare for actual fire emergencies.
- 2. Safety and Control:**

Traditional live fire training can be dangerous and costly, requiring controlled environments and significant resources. The HMP-E system allows trainees to practice fire extinguisher use in a completely safe, controlled environment without the risks associated with live fires.
- 3. Cost-Effective:**

Traditional fire training often involves expensive materials, equipment, and resources (such as fuel for live fires). The HMP-E system eliminates these costs, making it a more affordable and sustainable option for organizations.
- 4. Immediate Feedback and Improvement:**

The system provides instant feedback on the trainee's performance, allowing them to assess their skills and make adjustments in real-time. This ensures quicker learning and greater retention of fire safety techniques.
- 5. Eco-Friendly:**

Unlike traditional live fire training, which can create environmental hazards such as smoke and harmful gases, the HMP-E system is eco-friendly and produces no harmful emissions, contributing to a cleaner and safer environment.
- 6. Flexible and Customizable:**

The HMP-E system offers customizable training scenarios that can be adapted to different environments, industries, and training levels. Whether for workplace training, public safety programs, or educational institutions, the system can be tailored to meet specific needs.
- 7. Scalable and Repeatable:**

Traditional methods are often limited by the availability of resources and the number of participants. The HMP-E system can be used repeatedly, allowing organizations to train larger numbers of individuals in a shorter amount of time, without the constraints of physical training locations or live fire setup.



## 2. CAUTIONS AND WARNINGS (INTENDED USE)

HMP-E is intended solely for fire extinguisher training, enabling participants to learn the essential fire safety skills for handling small fires. HMP-E is not a toy; it is not designed for use in actual fire emergencies and functions exclusively as a virtual simulation device.

### 2.1 GENERAL SAFETY GUIDELINES

#### **Follow Manufacturer Instructions:**

This training system uses photoelectric signals as the fire source, ensuring cleanliness, safety, and environmental friendliness with no pollution. Before operation, carefully read this user manual and the safety guidelines, and always adhere to the operational rules during training. Do not use this appliance without reading the entire HMP-E User Manual.

#### **Use in a Safe Environment:**

- Conduct training in a well-ventilated, hazard-free area.
- Do NOT operate in inclement weather, such as wind, rain, hail, sleet, or snow.
- Do NOT operate in environments with high humidity.
- Keep away from flammable and explosive environments.
- Keep away from sprinklers and other water sources.
- Always operate on a hard, level surface, such as concrete or asphalt.
- The device can be used indoors and outdoors. Always pair it with the HMP-T outdoor tent or mini tent to ensure a realistic training experience for participants.

#### **Avoid Hazardous Materials:**

- Do NOT use real fire sources or fire extinguishers to interact with the equipment during training sessions. Such actions are strictly prohibited.
- Always use a mini tent or HMP-T outdoor tent to protect the HMP-E Simulated Flame Instrument from foreign objects entering it.

#### **Inspect Equipment Regularly:**

Only assign personnel trained in equipment usage to maintain it. Perform regular inspections and maintenance per the user manual to ensure the system functions correctly during training.



**Provide Participant Safety Training:**

Before starting, teach participants the safe operation of the system and emergency procedures. To ensure smooth training sessions and prevent onsite incidents, refer in advance to Chapter 8 of "Best Practices for Training" for scientifically setting up the training area.

**Supervise All Training Sessions:**

Ensure experienced personnel familiar with the equipment oversee and manage the entire training process.

**Use Proper PPE if Necessary:**

Equip trainees with safety gear as needed to enhance the effectiveness of the training.

**Have Emergency Plans Ready:**

Develop and communicate emergency response procedures to prevent onsite accidents.

## 2.2 FIRE TRAINING SAFETY PROCEDURES

- Always comply with applicable local, state, and national regulations in your area. Conduct fire extinguisher training in accordance with the requirements of local fire departments to ensure trainees receive instruction in a safe and compliant environment.
- This equipment is strictly prohibited from being used in any gaming or entertainment scenarios.

## 2.3 ELECTRICAL SAFETY PRECAUTIONS

The device requires an external AC power supply and is equipped with a high-powered fan. Please operate it correctly to avoid unnecessary risks to users. The device contains high-voltage components. Do not open the casing, attempt repairs, or make modifications.

### WARNING

Maintenance and repairs should only be performed by professionals or in accordance with the suggestions of HM Protection Inc (HMP). Do not disassemble or modify the HMP-E training system in any way. Such actions may cause the system to malfunction and pose significant safety risks. If you encounter any issues during use, please contact our maintenance customer service center.





1. If the socket is damaged or loose, or if the power cord or plug is damaged, stop using the device immediately to avoid the risk of fire, electric shock, or other accidents.
2. Do not insert metal objects or foreign materials, such as wires or fingers, into the air intake or exhaust ports of the machine, as this may result in accidental injury. If a foreign object accidentally enters the machine, unplug the power cord immediately and contact our maintenance customer service center.
3. Do not forcibly bend or stretch the power cord or plug. If the power cord is damaged, replace it promptly. Before plugging in the power cord, clean the conductive metal parts of the plug with a dry cloth.
4. Before use, all packaging materials must be removed. Keep all packaging materials away from children to prevent the risks of ingestion, suffocation, or other injuries.
5. Do not plug in or unplug the power cord with wet hands. Before cleaning or performing maintenance, unplug the device to avoid electrical shocks or other accidents. Ensure that all related items are stored back inside the machine to maintain the integrity of the equipment set.

By following these guidelines, you can ensure the device operates safely and remains in good condition.

## DISCLAIMER

Users shall use the products correctly in strict accordance with the User Manual provided by HMP. The user assumes all risks in the assembly and operation of this device. Failure to follow the instructions and warnings in the HMP-E User Manual may result in severe personal injury, or property damage. HMP shall not be responsible for any damage, injury, or other safety issues that may arise from improper use or misuse of the HMP-E Portable Simulated Fire Extinguishing Training System.

### 3. HMP-E PORTABLE SIMULATED FIRE EXTINGUISHING TRAINING SYSTEM (BASIC) PACKAGE CONTENTS

- A 1x Simulated Flame Instrument
- B 2x Simulated Fire Extinguisher
- C 1x Remote Controller of Simulated Flame Instrument
- D 2x Charger of Simulated Fire Extinguisher
- E 1x Extinguisher Transport Case
- F 1x Mini Portable Outdoor Tent
- G 2x Disposable Plastic Seal
- H 2x Simulated Fire Extinguisher Protective Bag

If you need to order related accessories, please contact your distributor or sales manager, or reach out to [www.hm-protection.com](http://www.hm-protection.com).







# PACKAGING DISPOSAL GUIDELINES

## 1. INSPECTION AND INSTALLATION AFTER UNPACKING

- 1.1 Check After Unpacking: If there is external packaging, open it to inspect the contents.
- 1.2 Appearance Inspection: Examine the machine for any signs of damage or deformation.
- 1.3 Inspect Box Contents: Check the items inside the box for any damage or deformation.
- 1.4 Power Cable Check: Verify whether the power cable is intact and unbroken.
- 1.5 Voltage Compatibility Check: Verify that the voltage data on the ID plate attached to the machine matches the local power grid specifications (device identification can be seen in the white part of the image on the right).
- 1.6 Response to Damage or Abnormal Operation: If the machine is damaged or operates abnormally, immediately stop using it, unplug it, and contact the dealer or the manufacturer's specialized maintenance department for repairs.

## 2. MACHINE PLACEMENT

- 2.1 Distance from Walls and Cabinets: Maintain a certain distance between the machine and any walls or cabinets. This is necessary because the fan inside the machine increases air flow when operating. Do not place items on the outer cover, and ensure that dust, paper, or other small items are not sucked into the machine's casing.
- 2.2 Operating Environment: The machine should be operated in a dry, clean environment with an ambient temperature below 104°F (40°C) . Strong light and direct sunlight can adversely affect its performance.
- 2.3 Safety Precautions: Place the machine out of the reach of children. Minors must use the machine under adult supervision.
- 2.4 Ventilation: Keep the machine's exhaust and intake vents unblocked. Do not cover these vents with cloth.
- 2.5 Handling the upper lid: Carefully open and close the lid of the Simulated Flame Instrument to prevent damage or deformation.



## PACKAGED PRODUCTS



## PACKAGE OPENED



### **Remove All Packaging Materials:**

Ensure all packaging materials, including protective covers, plastic wraps, and foam inserts, are fully removed before operating the device.

### **Recycle When Possible:**

Place recyclable materials, such as cardboard and plastics, in appropriate recycling bins to minimize environmental impact.

### **Avoid Hazards:**

Keep packaging materials out of reach of children to prevent choking or suffocation risks.

### **Dispose of Non-Recyclables Properly:**

Any non-recyclable components should be disposed of in accordance with local waste management regulations.

### **Clear the Setup Area:**

Ensure that the workspace is free from any leftover packaging to maintain a safe and organized environment for equipment operation.

## 4. HMP-E TRAINING SYSTEM OVERVIEW

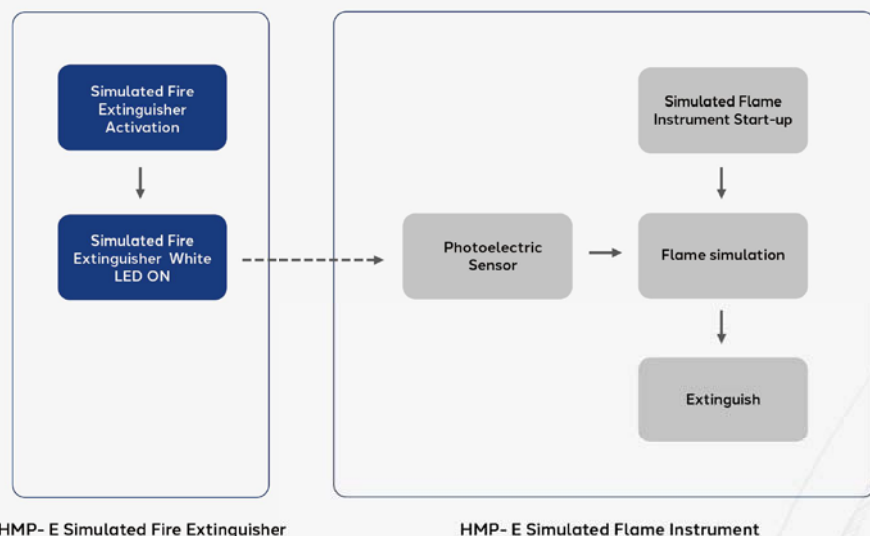
The HMP-E Portable Simulated Fire Extinguishing Training System consists of a Simulated Flame Instrument, two Simulated Fire Extinguishers, and related accessories.

The Simulated Flame Instrument is the core component of the HMP-E Simulated Training System, designed to provide a realistic and immersive fire training experience. The device uses a combination of red and yellow LED lights to simulate the colors of flames under different burning conditions. The airflow generated by the internal fan causes the flame fabric to move irregularly, and when the LED light is projected onto the fabric, it creates a realistic visual effect of flames flickering during combustion. Additionally, the built-in speakers play audio to simulate the sound of flames burning, further enhancing the realism of the simulation.

The Simulated Fire Extinguisher is designed to match the weight, volume, sound effects, duration of use, and operation steps of a real fire extinguisher. It is equipped with an LED optical switch and a lead-acid battery.

When used with the paired Simulated Flame Instrument, the system detects the position of the extinguisher's light spot in real-time, sensing whether effective fire suppression actions are being taken. It responds by simulating phenomena such as sustained burning, intensification, or reignition of flames. During the fire extinguishing process, the Simulated Flame Instrument may also randomly generate new "flames" to simulate the phenomenon of a fire briefly extinguishing and then reigniting, replicating the scenario of an incipient fire.

By combining visual, auditory, and interactive elements, the system ensures that trainees experience comprehensive and realistic **P.A.S.S.** (Pull, Aim, Squeeze, Sweep) fire suppression training.





## 5. HMP-E TRAINING SYSTEM TECHNICAL SPECIFICATIONS

PRODUCT NAME	WEIGHT	DIMENSIONS	MATERIAL	POWER SUPPLY
HMP-E Simulated Fire Extinguisher	12lb (5.4kg)	1.71ft x 0.52ft x 0.72ft (52cm x 15cm x 21cm)	Stainless steel	DC 12V 7Ah
HMP-E Simulated Flame Instrument	37lb (16.78kg)	2.53ft x 1.08ft x 1.02ft (76.5cm x 33.5cm x 31.5cm)	Blister, black flame-retardant material	AC 120V $\pm$ 10%, 60Hz, 160W Fan: Maximum startup current 3.75A Remote Controller Battery Type: 27A/12V
HMP-E Extinguisher transport case	3.73lb (1.69kg)	1.97ft x 1.66ft x 0.87ft (60cm x 50cm x 26cm)	Polypropylene plastics	
HMP-E Mini Portable outdoor tent	1.09lb(0.49kg)	3.94ft x 3.94ft x 6.07ft (120cm x 120cm x 185cm)	210T terylene	

### OPERATING ENVIRONMENT REQUIREMENTS

**Temperature Range:** 32°F to 104°F (0°C to 40°C)

**Humidity:**  $\leq$  80%

**Light Conditions:** Must be used indoors in a clean, dry, and dark environment (not suitable for direct sunlight or strong light conditions)

**Placement:** Maintain at least 3.28ft (100cm) clearance from walls and furniture; exhaust and intake vents must remain unobstructed.