

FLAIM™

Extinguisher

User Manual

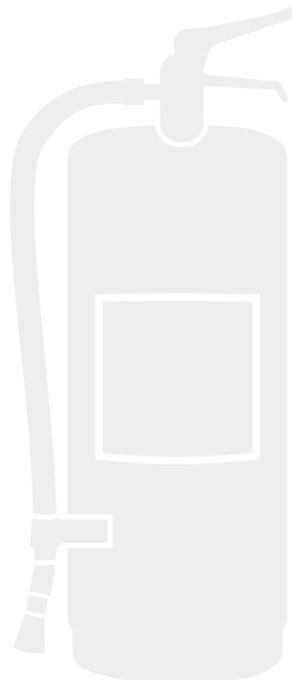
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Overview

Welcome to the FLAIM community. Thank you for your purchase of the FLAIM™ Extinguisher virtual reality (VR) training system.

This manual should get you on your way in no time. The FLAIM Extinguisher system is designed for training instructors or trainees with minimal understanding of VR.

The FLAIM Extinguisher system immerses first responders, fire wardens and the public in common real-world fire scenarios. It engages their senses and connects with your real-world fire extinguisher. Delivering hands-on learning for first responders safely from the classroom, factory or office.

There is no messy clean-up or use of expensive extinguishing agents – making it safe and environmentally friendly.

FLAIM Extinguisher provides the capacity to train people anywhere, in fire scenarios that are:

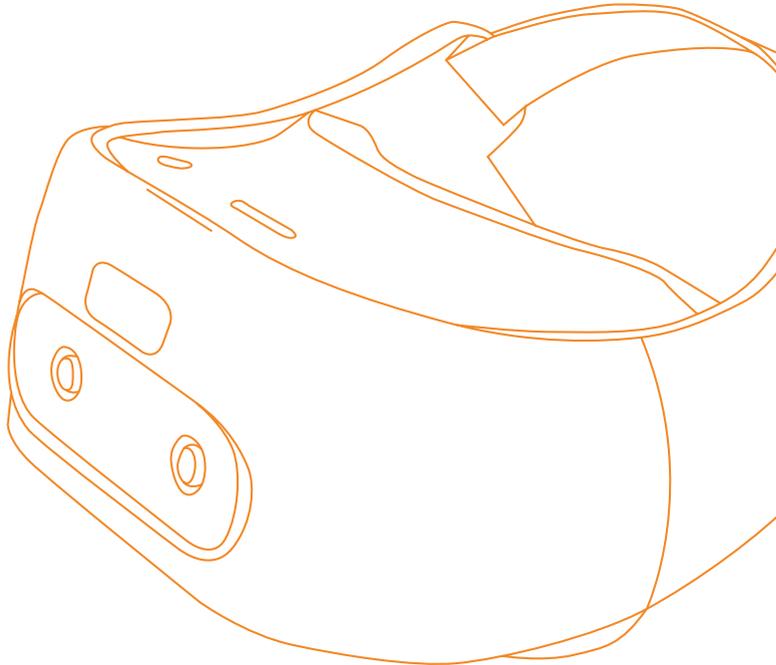
- Inherently unsafe and difficult to reproduce.
- No longer possible due to environmental, community and regulatory constraints.
- Incur significant training cost in time, people and assets.

Easy to use, FLAIM Extinguisher facilitates learning about fire extinguisher types and which extinguisher should be used for different fire types. It also facilitates learning of PASS, the Pull, Aim, Squeeze and Sweep technique.

We hope you enjoy training with FLAIM Extinguisher and once again, thank you for your support.

The FLAIM Systems Team

Train More, Learn More, Be Prepared.



What's in the box?

Please see below images of the individual parts that come in your FLAIM Extinguisher box/case (Figure 1 and 2) with an explanation of what they do.

Figure 1: FLAIM Extinguisher System box (case)



Figure 2: Inside the FLAIM Extinguisher box (case)



QTY	Description	Picture
1	VR headset - HTC Vive Focus Head Mounted Display	
1	Extinguisher controller tracking system	
2	Power cable for Head Mounted Display	
1	HDMI receiver	
1	Charge plug (country specific) for charging VIVE Focus	

QTY	Description	Picture
1	Country specific power cable and power adaptor for HDMI receiver power supply (configuration may vary in different countries)	
1	HDMI extension cable	

Quick Start Guide

This section covers the basic setup, how to use and run the FLAIM Extinguisher training system.

Note

Ensure you have adequate working space. Some scenarios require the trainee to walk closer to the fire to extinguish. FLAIM recommends 4m x 4m (13ft x 13ft) minimum.

Training instructor viewing system

The training instructor viewing system (Figure 3) receives the signal transmitted by the FLAIM Extinguisher VR headset. It allows the training instructor and others in the room to experience a live view of what the person being trained can see in the virtual training environment.

The training instructor viewing system consists of a HDMI receiver that connects to a television/projector (not supplied) via a supplied HDMI cable.

Figure 3: Instructor Viewing System



Step 1

1. Plug the micro USB lead into the USB port on your television and projector.
2. When powered, the receiver power light will glow blue (see Figure 4).
The USB Power supply delivers power to the HDMI receiver. Some systems cannot supply enough power from their in-built USB port. If there is no light it is likely that your system cannot supply enough power from its in-built USB port. If this occurs, please use the included power supply. Retry with power supply connected – you should now see a blue light on the power receiver (see Figure 4).

Figure 4: Ensure HDMI receiver is powered (Blue light) – top right



Step 2

1. Select the source – television or projector
You will now see the Ready to Connect screen (Figure 5) on your television or projector. If the system is inactive for five minutes or longer a screensaver will activate (Figure 6).

Figure 5: HDMI Receiver ready to connect screen



Figure 6: HDMI Receiver screensaver mode



Step 3: VR headset setup

1. Remove the VR headset - VIVE Focus Head Mounted Display from the case.
2. To power on the VR headset, hold down the power button (on the top right side of the headset for up to 5 seconds).
3. Put on the VR headset. Ensure it is fitted firmly. To tighten the fit for the user, the VR headset can be adjusted at the back via the adjustment knob and on top of the head using the strap.

You will know the headset is **ON** when you see the VIVE Focus logo.

The user now needs to adjust the lens on the base of the VR headset – until the visual is clear.

Step 5: Setting up the controller

1. If a sole user - remove the headset. If two or more people – trainer should execute this step.
2. To turn on the controller - hold down the bottom button. On-screen prompts will now appear for the user in the headset. If not working check the Vive Focus Controller has batteries installed.

Congratulations you are now ready to use FLAIM Extinguisher - follow the on-screen prompts and proceed to the **How to use FLAIM Extinguisher** section of this manual.

Setup troubleshooting

If prompted to re-centre

Reset with controller (trainer)

To re-centre the virtual world using the controller get the user to move their hand that is holding the controller forward and hold down the bottom button on the controller for 5 seconds.

Reset with VR headset (trainee)

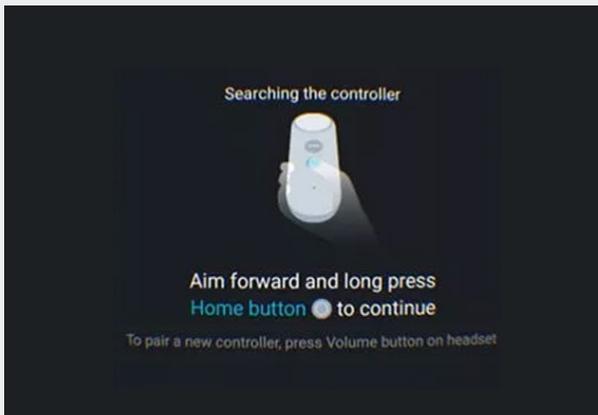
To re-centre the virtual world using the VR headset – remove from head. Hold the VR headset above your head for 5 seconds. Place the headset back on. Ensure that you do not cover the cameras on the front of the VR headset while you reset. This obstructs the tracking technology.

To **SHUTDOWN** at any time hold down the power button on the VR headset for 3 seconds. A pop-up menu will allow you to select shutdown or restart with the controller. Click away to cancel.

To adjust the **volume** use the controls on the bottom left-hand side of the VR headset.

To **charge** the **VR headset**, plug the supplied charger cable into the USB C port on the top of the headset and the USB end into the supplied wall plug.

Figure 7: VIVE Focus controller re-centre screen





How to Use Flaim Extinguisher

Getting started

After successfully turning the system on and waiting for ~1 minute the Extinguisher Lobby will appear.

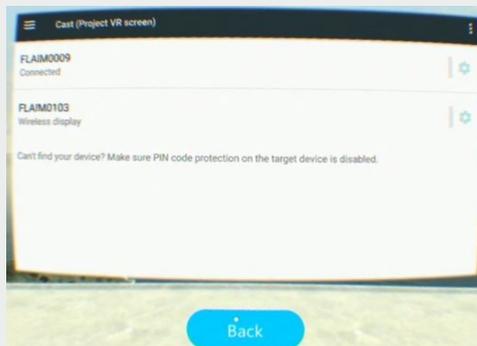
Streaming to video screen (projector or television)

1. To stream to the television or projector select the video connection button in the top right top of the screen, second from right (Figure 10). This will open video streaming options on the tablet.
2. Select the FLAIM device by clicking on its name (eg. FlaimXXX) and wait until the message below shows Connected.
3. You should see Connecting you now on your television or projector. Then Magic is about to happen. It may take 10-20 seconds to connect.
4. FLAIM Extinguisher will now be streaming to the television or projector. It will show what the VR headset view.
5. Note: It will only stream while the headset is placed on your head, The television or projector screen will be black when the headset is removed.
6. Click the back button to return back to the FLAIM Extinguisher lobby.

Figure 8: Video Connection Button



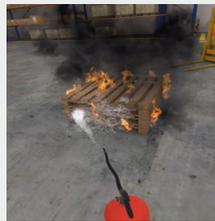
Figure 9: Video Receiver Connection



Scenarios menu tab

The Scenarios tab (Figure 11) will automatically be selected. This is where you can access the different FLAIM Extinguisher training environments.

Figure 10: Scenarios tab menu



Running scenarios

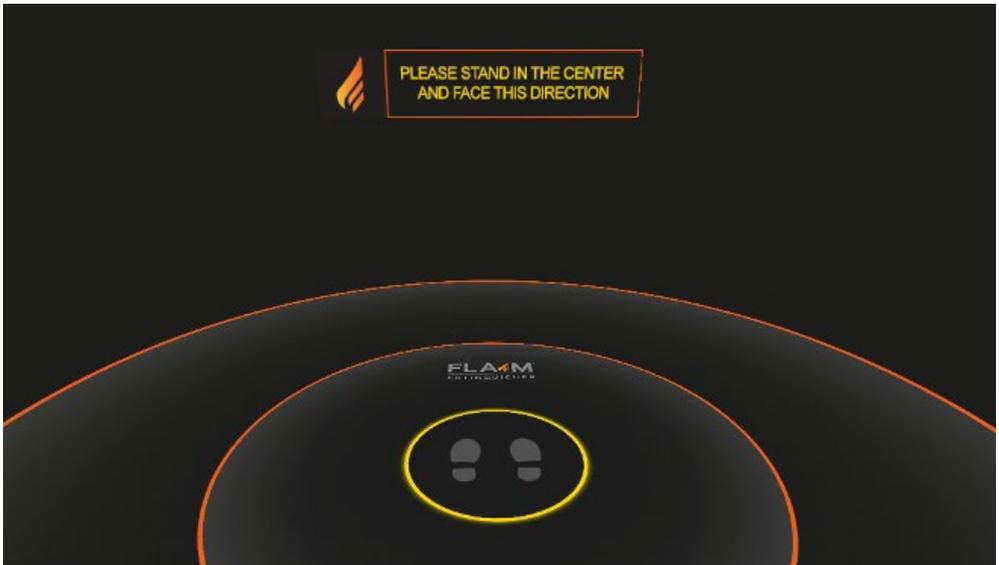
1. Select a scenario by pointing and holding down the bottom button on the controller.
2. You will now see a circle at your feet (Figure 12). Step into the centre, with the same orientation as shown. The scenario will then load.

Note

When loading in and out of scenarios, you will need to return to your origin point. This origin point can be reset by taking the VR headset off for 4 seconds.

You will now be in the scenario.

Figure 11: Feet circle screen



Training options

The FLAIM Extinguisher system has three different training options - Extinguisher Training, Experience, PVStop.

Option 1:

Extinguisher Training teaches users how to use an extinguisher – giving three choices of extinguisher type. For example: The Warehouse Pallet scenario.

Option 2:

Experience is for observation learning. The user will not have any extinguisher choices. For example: The Aircraft Engine scenario.

Option 3:

PVStop teaches users how to use PVStop to negate the electricity output of solar panels.

Extinguisher training

If you are in an Extinguisher Training scenario (Option 1 scenarios) - extinguishers will be located nearby (Figure 13).

To run this training option, follow the steps below:

1. Select an extinguisher, it will then appear in the user's hand.
2. The user should press the trigger or top button on the controller to use the extinguisher.

The scenario will end when the user runs out of suppressant or the fire is extinguished.

You will then have the option to return to lobby or restart.

Extinguishers Tab

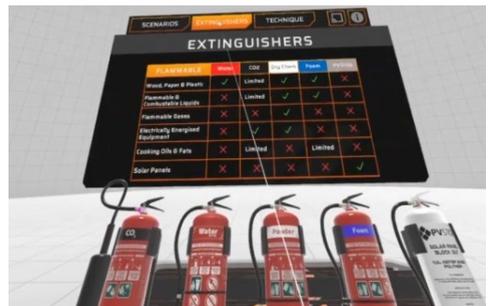
Select the Extinguishers Tab (Figure 14) to learn about the various types of extinguishers and their role in fire suppression.

Virtual extinguishers will appear in front of the user. Aim the controller laser at one, it will highlight the information about its role in fire suppression.

Figure 12: Extinguishers in Extinguisher Training scenarios



Figure 13: Extinguishers Tab (next to the Scenarios Tab)



Technique Tab

The Technique Tab (Figure 15) walks users through the extinguisher PASS technique. le: Pull the pin, Aim at the base of the fire, Squeeze the handle and Sweep from left to right.

To see the next step - switch pages using the right arrow.

Info Tab

The Information (info) button is found at the top right of the screen (next to the video connection button).

The Info button shows the current software version as well as FLAIM System's website address: flaimsystems.com

Figure 14: Technique Tab (next to the Extinguishers Tab)





Fault finding

Please see below a list of possible faults and how you can resolve them.

Fault

Headset does not turn on

Solution

Plug the headset in to charge for a few minutes.

Place the headset on your head and then press and hold the power button.

Fault

Solution

Controller is not tracking

Follow the on-screen instructions to turn on the controller.

Re-centre the controller by holding the button on the rear of the controller for 3 seconds.

If you are still unable to connect - replace the batteries (2 x AAA).

Tracking is off or I feel tall/short

Remove the headset from your head. Wait for approximately 4 seconds until the headset eye pieces turn black. Place back on your head. Make sure the cameras on the front of the headset are not obstructed.

No power light or inability to connect to video receiver (tv or projector)

Connect the USB lead to the included wall adaptor as the TV/Projector may not supply enough power to operate the receiver

Tracking jumps around or is not consistent

Large mirrors or windows in a training area may cause interference with the sensory systems

FLAIM Systems maintains a support team via email at support@flaimsystems.com and will respond within 24 hours about any further technical issues.

Safety

The safe use of the FLAIM Extinguisher is paramount. The following safety guidelines should be followed to ensure that trainees and support staff are protected at all times.

Safety Advice

FLAIM Extinguisher is only to be used to train emergency services personnel and first responders for workforce, customer and community engagement.

FLAIM Extinguisher **MUST NOT** be used for operational or actual firefighting or LIVE FIRE training. Do not use in wet conditions or expose to direct water. Do not use with firefighting liquids or agent streams including gas, carbonaceous or other fuels.

Battery Charging

Safety Advice

FLAIM Extinguisher has a battery within the headset that must be charged and maintained for optimal usage. It is critical that the headset is checked for damage before and after use and before and after charging.

If the headset shows signs of damage, then please contact FLAIM Systems for advice.

Use conditions

The FLAIM Extinguisher training system should be used inside or away from direct sunlight. Direct sunlight can damage the displays inside the VR headset and will void the warranty of the system. Please contact FLAIM Systems for advice if you have inadvertently exposed your headset to direct sunlight.

Maintenance

Please read the supplied VIVE Focus manual for care and maintenance tips.

Further Support

Thank you for choosing our FLAIM Extinguisher product to use as a part of your training program. For further support, please contact your local distributor or in-country agent during business hours or email support@flaimsystems.com.



