FLAØMS SYSTEMS

FS-FE-UM2019.1

User Manual FLAIM Extinguisher™

Version 1 September 2019

OVERVIEW	4
WHAT'S IN THE BOX	5
Quick Start Guide	7
Instructor Viewing System	7
Step 3 – VR headset setup	8
HOW TO USE FLAIM EXTINGUISHER	11
Streaming to Video Screen (projector or television)	11
Scenarios Menu tab	12
Running scenarios	13
Technique Tab	15
Info Tab	15
Fault Finding	16
Battery Charging	17
Safety	17
Use conditions	17
Maintenance	17
Further Support	17

Figure 1 Inside the FLAIM Extinguisher box (case)	5
Figure 2 FLAIM Extinguisher System box (case)	5
Figure 3 Instructor Viewing System	7
Figure 4 Step 3. Ensure HDMI receiver is powered (Blue light) – top right	8
Figure 5 HDMI Receiver ready to connect screen	8
Figure 6 HDMI Receiver screensaver mode	8
Figure 7 Vive Focus controller re-centre screen	9
Figure 8 FLAIM is launched by selecting the EXT logo	11
Figure 9 Video Receiver Connection	12

OVERVIEW

Thank you for purchasing the FLAIM Extinguisher[™] virtual reality (VR) fire extinguisher training system from FLAIM Systems.

This manual should get you on your way in no time and is aimed at trainers with minimal understanding of virtual reality.

The FLAIM Extinguisher system is designed to allow fire extinguisher training anywhere - in the comfort of your own factory or office. The system provides realism to your training but there is no messy clean-up, use of expensive extinguishing agents and is environmentally friendly.

New scenarios will be added to our library for different fire types and locations. This will allow first responders, fire wardens and the public to develop their skillsets in a safe, repeatable and realistic way.

FLAIM Extinguisher provides the capacity to train situations and 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.

FLAIM Extinguisher gives trainees in the most realistic training scenario available.

Once again, thank you for your support.

The FLAIM Systems team

Train Virtually, Experience Reality

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 Inside the FLAIM Extinguisher box (case)



Figure 2 FLAIM Extinguisher System box (case)

Part Number	Quantity	Description	Picture
	1	VR headset - HTC Vive Focus Head Mounted Display (HMD)	00
	1	Extinguisher controller tracking system	
	1	Power cable for Head Mounted Display	
	1	HDMI receiver	FLA/M HDMI RECEIVER FLAIM0014
	1	Charge plug (country specific) for charging Vive Focus.	htte
	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.

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.

Instructor Viewing System

The Instructor Viewing System (Figure 3) receives the signal transmitted by the FLAIM Extinguisher VR headset. It allows the 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 instructor viewing system consists of a HDMI receiver that connects to a TV/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 Step 3. 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 HMD from the box/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 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.

SET-UP 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 (user)

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.*



Figure 7 Vive Focus controller re-centre screen

To access the **Quick Menu** hold the bottom button- at any time. A menu will pop up – providing an option to return to the Vive Focus home screen.

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.

Possible error messages

Server access failure

If you are not connected to the internet you will receive a pop-up message - *Check your network or try again later* - on the home screen. Internet is not required to run the FLAIM Extinguisher trainer – just close the popup by selecting the OK button.

No Internet Connection, please check or choose another WiFi. Internet is NOT required to operate the FLAIM Extinguisher trainer. Click *Cancel* to proceed.

Getting started

HOW TO USE FLAIM EXTINGUISHER

- 1. Select **Library** to open the Extinguisher Application. The Library button is found at the bottom of the Vive Focus Main Menu screen (Figure 9).
- 2. Click on the arrow to the right of the EXT logo.
 - a. Note: If the FLAIM EXT application is missing or has been uninstalled; contact FLAIM Systems.



Figure 8 FLAIM is launched by selecting the EXT logo

- 3. The screen will turn blue while loading.
- 4. The Extinguisher Lobby will now appear.

Streaming to Video Screen (projector or television)

- 1. To stream to the television or projector select the video connection bottom 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 (eg. Flaim001) 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.

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.

5. Click the **back** button to return back to EXT. If EXT has been closed, reopen EXT from the library.



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 scenarios.
 IF NOT, select the top left button *Scenarios*.
- There may be multiple pages of Scenarios. To switch to the next page use the left or right arrows.



Figure 11 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 12 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 (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.



Figure 13 Extinguishers in Extinguisher Training scenarios

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 14 Extinguishers Tab (next to the Scenarios Tab)

Technique Tab

The Technique Tab (Figure 15) walks users through the extinguisher PASS technique. Ie: **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.



Figure 15 Techquie Tab (next to the Extinguishers Tab)

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

Fault Finding

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

Fault	Solution
Headset does not turn on	Plug the headset in to charge for a few minutes.
	Place the headset on your head and then press and hold the power button.
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 <u>support@flaimsystems.com</u> and will respond within 24 hours about any further technical issues.

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.

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.

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 <u>support@flaimsystems.com</u>