V-THREAT-FIRE® MANUAL

SYSTEM SPECS AND OPERATION INSTRUCTIONS

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SAFETY

V-Threat-Fire has been tested to ensure the safety of electrical output. Most recent testing was completed in June 2021 by **Rassettica Testing Limited** which states, “The electrical output of the V-Threat-Fire lies well within the safety limits stated in scientific and medical; literature when the device is used in accordance with the manufacturer’s instructions.

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I. OPERATIONS

1. SYSTEM INFORMATION

Power:

The V-THREAT-FIRE has an integrated 1600maH, 3.7V battery. This battery is charged via an external USB micro charger. The UL approved charger accepts 100 – 240 VAC (universal input) and can supply up to 2.4A at 5V to the USB input of the device.

REQUIREMENTS:

Power Outlet: 100 – 240 VAC.

Temperature: 32° F to 90° F (excessive heat or cold can damage equipment)

Humidity: Less than 90% relative

Weight: 1 lb. (approximate)

Size: 2.25” W x 6.0”H x 1.75” D

USER WARNING:

The patented V-THREAT-FIRE unit should be operated and monitored by a professional. V-THREAT-FIRE is designed to only be attached to the belt area.

2. MAIN SYSTEM COMPONENTS

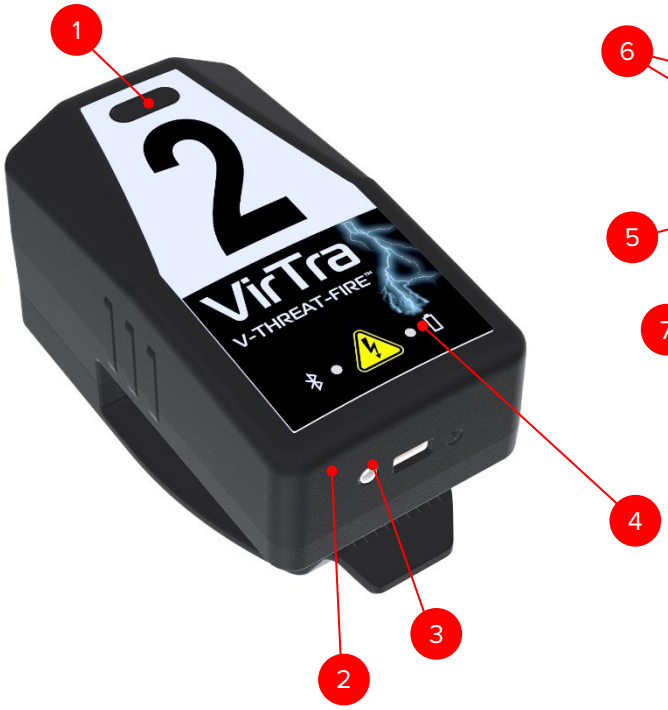


Fig 1: V-THREAT-FIRE (Front Side)

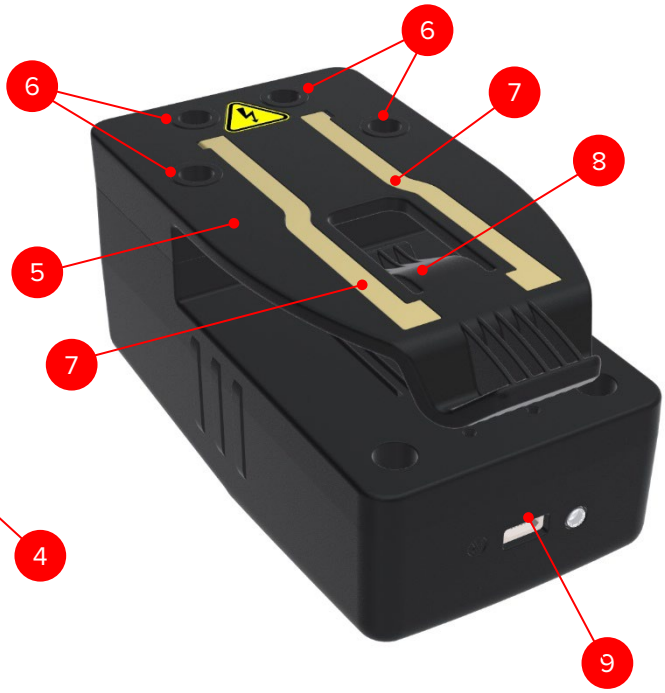


Fig 2: V-THREAT-FIRE (Back Side)

1. Equipment Label location
2. Bluetooth Link LED
3. Charge Status LED
4. Power Status LED

5. Belt Clip
6. Belt Clip Mounting Screws
7. Electrodes
8. Belt Clip Stabilizer
9. USB Micro Charging Receptacle

A. Turning ON System Power

When fully charged the V-THREAT-FIRE will automatically wake up when it is picked up or moved. It will also automatically turn off after a period of inactivity or non-movement.

B. Communications Link

When a communications link is established with a Master Receiver or VOS®, the 'Bluetooth Link LED' (Fig. 1, #2) indicator will temporarily light up. At this point, the unit is ready to apply a programmed stun to the user when remotely triggered.

C. Battery

The Power Status LED (Fig. 1, #4) informs the user of the current battery condition. During the wake-up phase, the LED may blink yellow for a short period. Battery charge color indication:

Battery Charge		Power Status LED
50% to 100%	-	Solid Green
25% to 49%	-	Solid Yellow
Below 25%	-	Blink Red
Unit Error	-	Solid Red

To charge the unit, connect the supplied battery charger to the USB micro charge port (Fig. 2, #9). Typical charge time is less than 2 hours depending on battery state. Battery is fully charged when the Battery status LED turns solid green and blue Charge Status LED (Fig. 1, #3) has turned off. The unit will continue to operate even while a low battery condition is present until the batteries are completely depleted. At this point the unit will power down. Recharge the unit.

D. Unit Fault

In the event an internal failure occurs, the Power Status LED (Fig. 1, #4) will illuminate red and the unit will no longer respond to trigger signals. Should this occur, please return the unit to the factory for repair. There are no user serviceable parts inside.

E. Application

Slide the belt clip (Fig. 2, #5) between the belt or rim of the user's pants, anywhere around the circumference of the rim. The electrodes (Fig. 2, #7) can be in contact with bare skin or separated by cloth of no more than ¼" of thickness.

F. Maintenance/Unit Care

This unit is **NOT** waterproof. If water gets inside, it will be damaged. Ensure the electrodes are kept clean. Dirt and sweat will reduce the effectiveness of the high voltage to bridge gaps through clothing.

Recommendations for disinfecting/cleaning: Isopropyl Alcohol. Alcohol solutions (isopropyl alcohol / purified water) or wipes with at least 70 percent alcohol are effective for sanitization of most hard surfaces. First, clean the surface with soap and water. Apply the alcohol solution and let it sit on the surface for at least 30 seconds to disinfect. Wipe dry with a clean cloth. Hydrogen Peroxide Household (3 percent) hydrogen peroxide is effective in deactivating most viruses within 6 to 8 minutes of exposure. Pour it undiluted into a spray bottle and spray it on the surface to be cleaned, let it sit on the surface for 8 minutes and wipe dry with a clean cloth. **Do not use ammonia-based wipes or cleansers** as it will damage the polycarbonate housing.

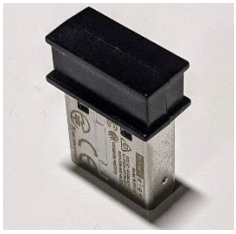
3. POWER / CHARGER COMPONENTS

A. Power/Charger

A universal USB charger and USB Micro-B cable will be provided for charging the V-Threat-Fire.
All USB chargers are UL approved.

4. BLUETOOTH CONNECTIVITY

The Bluetooth Low Energy (BLE) transmitter is a small USB host that can be inserted in any USB port on the computer system. Once connected, the transmitter (shown below) will send out a signal that allows VOS to communicate with one or more V-Threat-Fire units.



II. CONNECTIVITY WITH ACCESSORY CONTROLLER

1. Open VOS®

2. Setting up the V-Threat-Fire in Accessory Controller

a. Open the Accessory Control interface from the quick bar as shown below (Fig. 4).

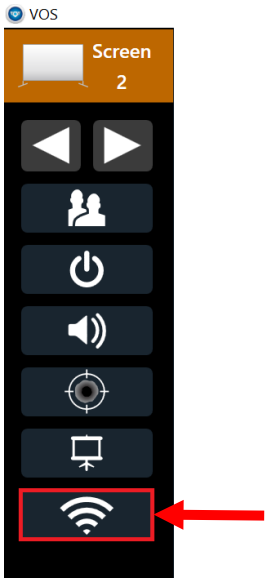


Fig. 4

b. Click “CONNECT” to start Accessory Control as shown below (Fig. 5).

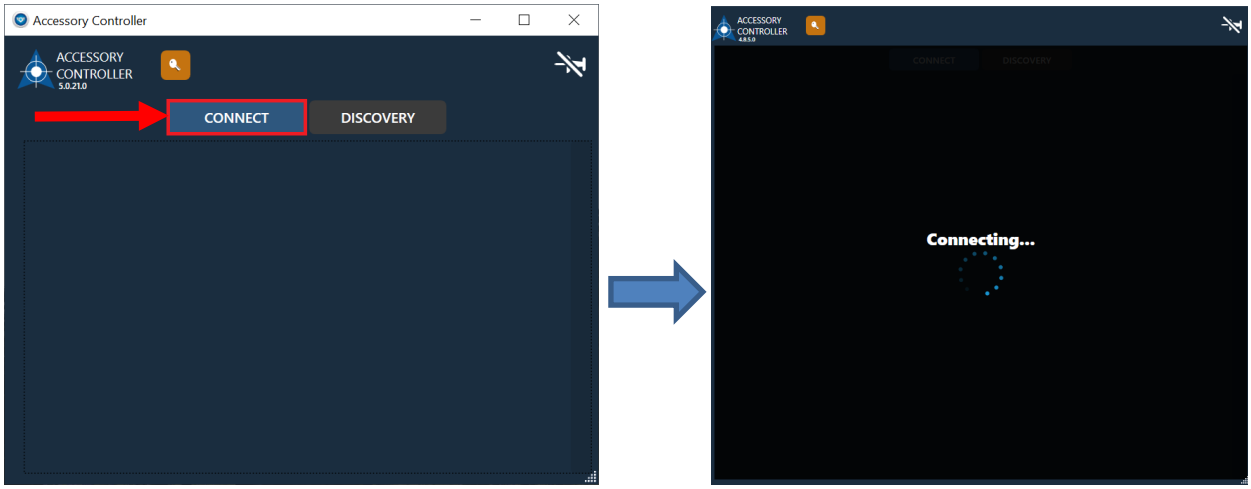


Fig. 5

c. Once connected, any VirTra Bluetooth devices that are ON and within range will show on the screen.
d. Turn ON the V-Threat-Fire you wish to configure by moving the V-Threat-Fire until POWER STATUS LED in ON or by plugging in powered USB cable.
e. The V-Threat-Fire device will show up in the Accessory Control interface as shown below (Fig 6).

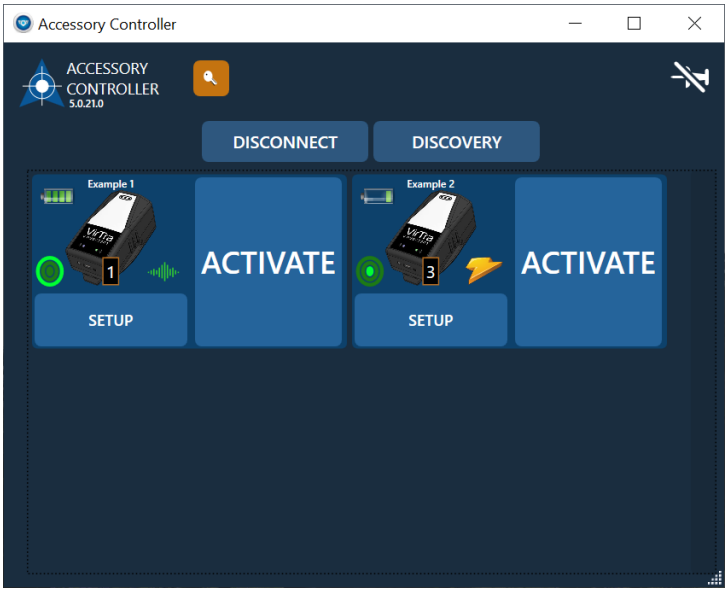


Fig. 6

f. V-Threat-Fire Interface Details (Fig. 7)
   1. Name
   2. Battery indicator
   3. Signal indicator
   4. Duration
   5. Setup button
   6. Activation mode (Vibrate)
   7. Activation mode (Shock)
   8. Activate button

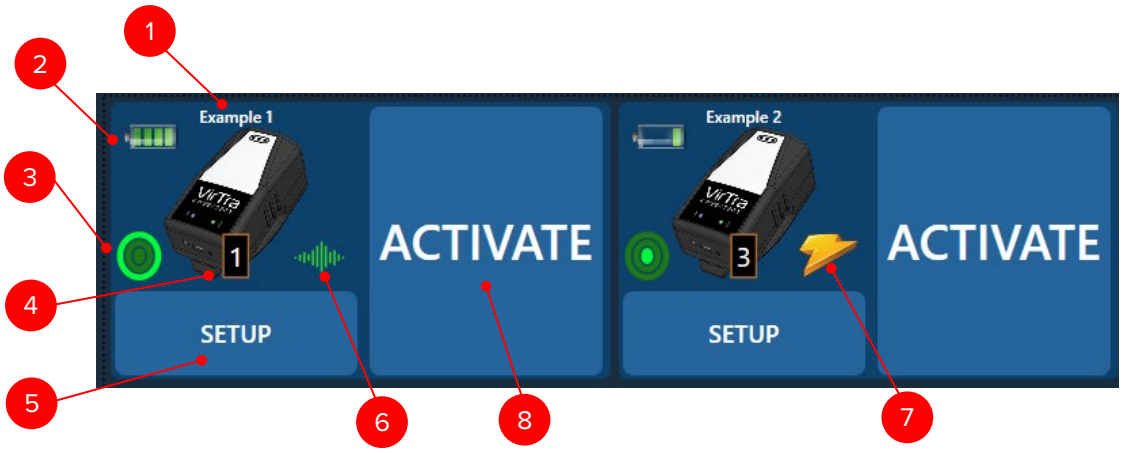


Fig. 7

g. V-Threat-Fire SETUP Interface (Fig. 8)
    1. Name
    2. Arcing Level (Duration)
        1. Level 1 – 0.25 seconds
        2. Level 2 – 0.625 seconds
        3. Level 3 – 1 second
    3. Burst Mode
    4. Method
        1. Arc
        2. Vibrate

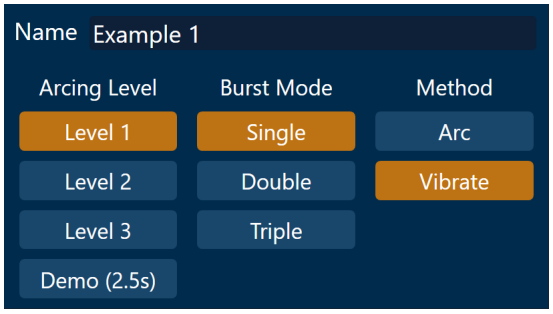


Fig. 8

2. Adding the V-Threat-Fire to a Trainee

a. Navigate to the Trainee Set interface
b. Click the “Add Equipment” button as shown below (Fig. 9)

Fig. 9

c. Locate the V-Threat-Fire equipment you would like to add. (Fig. 10)

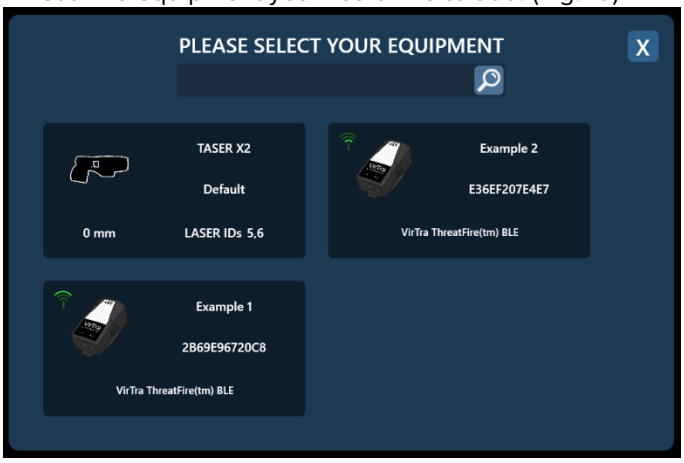


Fig. 10

d. V-Threat-Fire equipment will show up in the Trainee area as shown (Fig. 11).

Fig. 11

4. Using V-Threat-Fire during a simulation

a. Open the Trainee Flyout window from the Quick Bar as shown below (Fig. 12)

Fig. 12

b. Trainee Flyout Breakdown. (See Fig. 13)

i. Activate all V-Threat-Fire equipment in the Trainee Set
ii. Activate V-Threat-Fire equipment on the given Trainee
iii. Active this specific V-Threat-Fire equipment
iv. Open the V-Threat-Fire equipment settings

Fig. 13

c. Click “Activate” to activate the V-THREAT-FIRE.

III. CONTACT VIRTRA

If you have any questions/problems with any part of this manual, please contact the VirTra Service Department.

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