

# 3-Dmed®

LEARNING THROUGH SIMULATION



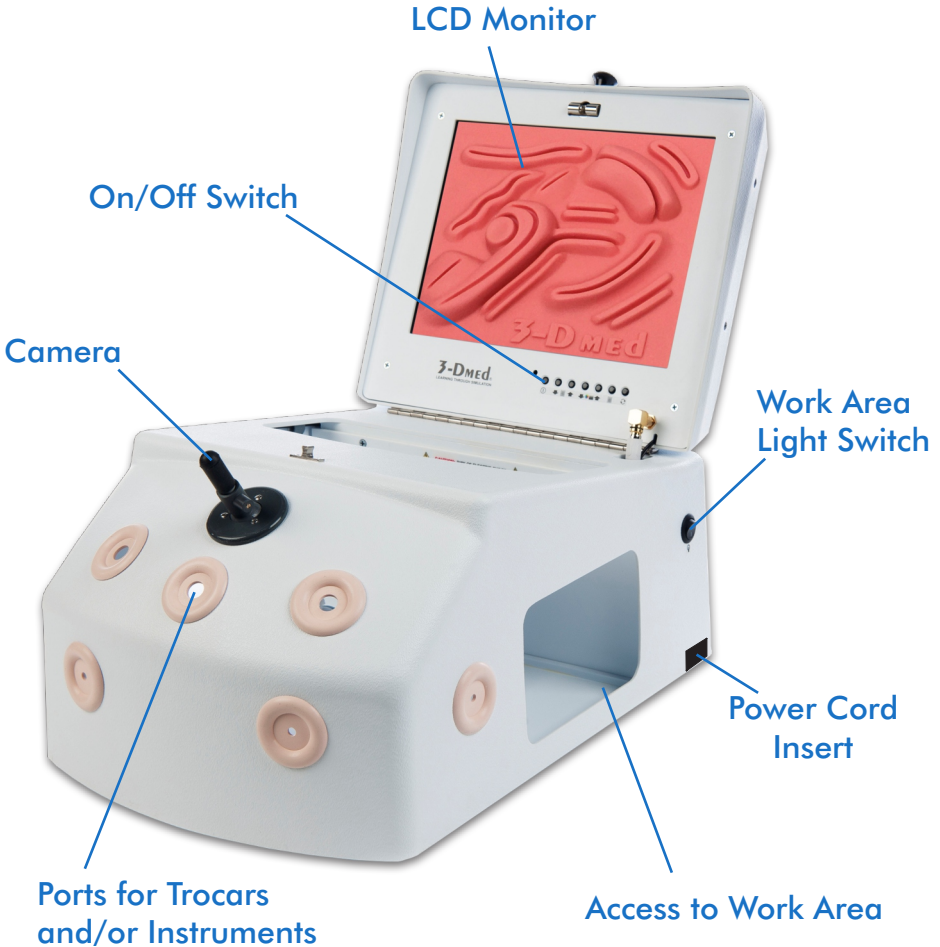
**T3-PLUS-HD Trainer**  
**User Manual**  
Original Instructions

# T3-PLUS-HD Minimally Invasive Training System

---

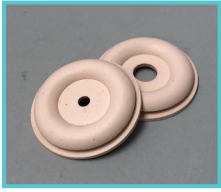
Thank you for purchasing the T3-PLUS-HD MITS from 3-Dmed®. Each has been fully tested prior to shipment and is easy to setup and use.

## FEATURES:



## Size & Weight

Length: 18.5" (47cm)      Width: 12.5" (32cm)  
Height: 9.5" (24.5cm)      Weight: 13 lbs. (6 kg)



Your instruments can be inserted into any of the seven ports. They can be used with or without trocars.

The trainer comes with both 5mm and 10mm grommets. The grommets are easily removed or replaced.

The trainer has a generous, well-lit work area. It will accommodate either artificial anatomical structures or animal tissue. Consider using an absorbent pad under animal tissue.

### Monitor Adjustments:

To make adjustments, push the "☰" button. Use the arrows to adjust different functions.

Contrast - It increases/decreases the separation between light and dark.

Brightness - Adjusts the light level on the screen.

Hue (Color) - Controls the level of the color.

Saturation - Increases or decreases color in relation to brightness.

Sharpness - Adjusts edge contrast of objects being viewed.

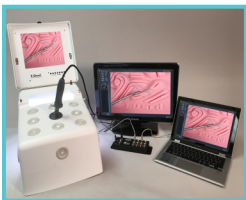
Color Temperature - Cooler is generally better for tasks, our light is "cool."

### Camera Adjustments:

The camera is permanently mounted to the inside of the trainer. The view can be adjusted using the joystick located on the outside of the trainer.

### Using Alternate Displays:

The camera image can be sent to any other television monitor that has an RCA video input, such as a large TV. Simply remove the RCA plug from the gold RCA jack, and attach an RCA female/male extension cord (not supplied) between the SimScope™ and the alternate monitor's "video" input. This works great for lectures or demonstrations.

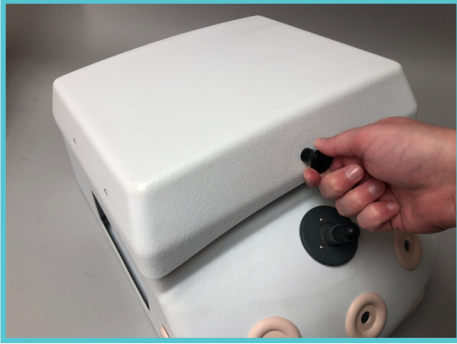


### Recording and Using Multiple Monitors:

Activity can be digital recording and analog recording by connecting the **3-D Med® SSVI07** Video Interface (sold separately) between the trainer and a digital storage device (computer/network). Additionally, the SSVI07 can split the input signal and can use up to four monitors. For more information, please visit our website.

# Setup Instructions

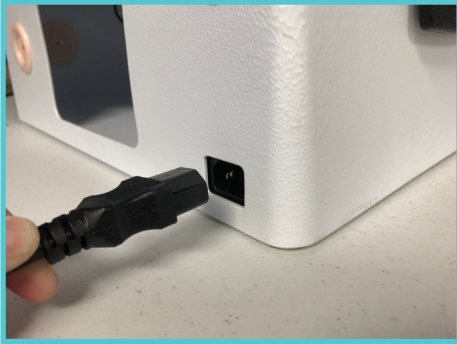
---



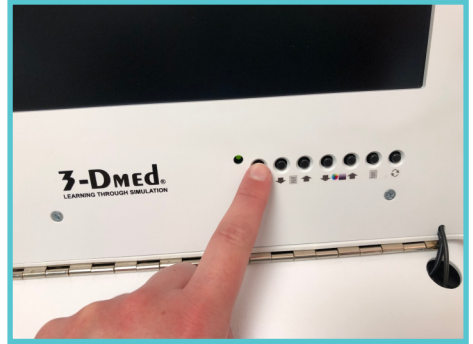
1. Lift the lid by the black knob to open.



2. The power cord is stored in the trainer. Remove the cord by unhooking the Rip-Tie® strap. The cord is retained in the strap for transportation or storage.

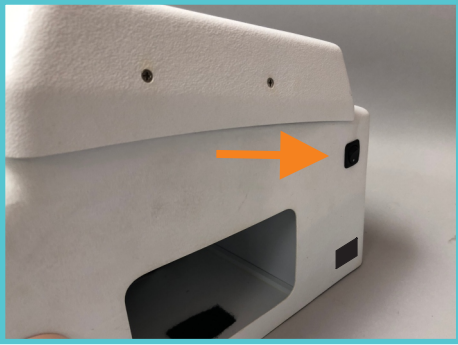


3. Place the female end of the power cord into the receptacle on the side of the trainer. Plug the male end into a standard 120v outlet.



4. Press the power button labeled "ⓐ" for one second. The LED light should turn from red to green. To turn the monitor off: press the "ⓐ" button for one second.

## Setup Instructions (continued)



5. To illuminate the work area, use the black switch labeled "☹" located on the side of the trainer.



8. If monitor adjustments are needed, press the "☹" button. Use the arrows "⬇️☹️⬆️" to choose the setting. Use "⬇️🌈⬆️" to adjust the setting. The "🔄" button should be set to "AV."

**NOTE:** The monitor is Liquid Crystal Display (LCD) and care must be exercised regarding the surface of the screen. To clean: use a soft cotton cloth lightly dampened with water, or a commercial computer LCD monitor cleanser, or use a solution of 50% isopropyl alcohol and 50% distilled water. Products containing ammonia should not be used. Do not apply any cleaning solutions directly onto the screen. Never use cleaning products that contain abrasives or strong solvents. Turn monitor off when not in use.

# Warranty

---

In order to provide warranty or future service, please contact us via e-mail at: [support@3-Dmed.com](mailto:support@3-Dmed.com) prior to taking any action. This will help expedite the process. Problems can be resolved by e-mail or phone.

**3-DMED®**, a division of 3-D Technical Services Co., warrants this Product against defects, material, or workmanship subject to the following conditions:

1. **MONITOR and CAMERA:** These items are covered by their manufacturer's warranty for a period of one year. **3-DMED®** will act as liaison in the case of your claim, but final determination of coverage is the manufacturer's decision.
2. **LABOR:** For a period of 90 days from the date of purchase, if **3-DMED®** determines the Product (part) to be defective, we will repair or replace the Product (part) at no charge. After the warranty period, we will provide an estimate for labor charges upon request.
3. **PARTS:** **3-DMED®** will replace defective parts with new or rebuilt replacements for a period of 90 days. After the warranty period, parts are available through **3-DMED®** and pricing will be provided upon request.

**TO OBTAIN WARRANTY SERVICE: YOU MUST OBTAIN A RETURN AUTHORIZATION NUMBER** via phone or e-mail **BEFORE** sending the unit back. The Product must be sent in its original packaging, or packaging affording an equal degree of protection, to **3-DMED®** with insurance for its full value. Uninsured parcels are sent at **YOUR RISK** for loss or damage.

This warranty does not cover user cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, or modification to any part of the Product. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a trained technician at **3-DMED®**. This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

# T3-PLUS-HD MITS - Symbol Legend



- POWER, ON AND OFF



- MENU ACCESS or MONITOR CONTROL NAVIGATION



- ADJUST DISPLAY VALUES or CHOOSE MONITOR CONTROL FUNCTION



- DISPLAY VALUES



- SWITCH INPUT MODES



- LIGHT SWITCH



- WARNING: ELECTRICAL HAZARD



- WARNING: DISCONNECT POWER PRIOR TO ACCESS

## SCOPE AND LIMITS OF USE

- This Product is designed for laparoscopic surgical training tasks.
- This Product is intended for simulation and training purposes only.
- This Product is able to house animal tissue, for training purposes.
- Task inserts intended for use inside the MITS can be purchased at [www.3-dmed.com](http://www.3-dmed.com)
- This Product is not to be used on or with human patients.
- Only use this Product with the appropriate power source.
- Unplug the Product when not in use



2019

3-Dmed

255 INDUSTRIAL DRIVE, FRANKLIN, OH, 45005, USA

DESIGNATION OF THE MACHINERY:

MINIMALLY INVASIVE TRAINING SYSTEM (MITS)

MODEL: T3-PLUS-HD

SERIAL NUMBER:

INPUT: 100-240 VAC, 1.2 A, 50-60Hz

WEIGHT: 13 lbs. (6 kg)

Emitted sound pressure level is below 70dB (A).

## Weight and Lifting Requirements

- The weight of the T3-PLUS-HD is 13 lbs. (6kg).
- Use caution when lifting and carrying.
- Before lifting, make sure cord is securely strapped.
- Trainer can be lifted by the handle on the back, or by placing your hands underneath the bottom outside edge of the trainer.

**Visually inspect the T3-PLUS-HD Trainer once every year to ensure the trainer is working properly and safely. Please contact us if you notice any of the following:**

- Frayed wires
- Loose parts
- Screen damage
- Exposed cables
- Damaged parts
- Physical damage
- Loose connections



## **Correct Disposal of This Product (Waste Electrical & Electronic Equipment)**

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product or their local government office for details of where and how to safely recycle the item.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.



# Laparoscopic Task Inserts



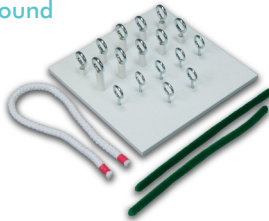
Playground



Soft Tissue Suture Pad



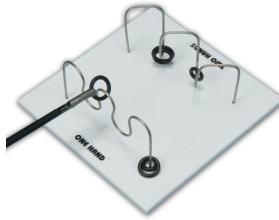
Tray of Organs



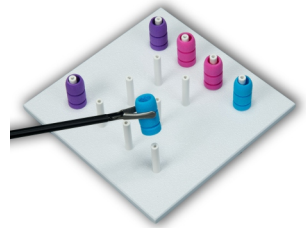
Skill Building Task 1  
Loops and Wire



Skill Building Task 2  
Pea on a Peg



Skill Building Task 3  
Wire Chaser



Skill Building Task 4  
Post and Sleeve



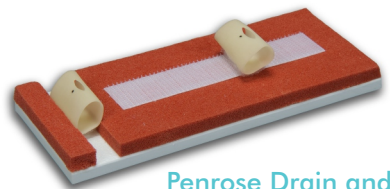
Practice Board  
for FLS® Skills



Vaginal Cuff and Holder



Bowel Sections



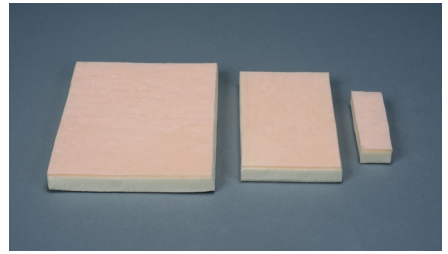
Penrose Drain and  
Holiotomy™ Holder

## More Products from 3-D Med®

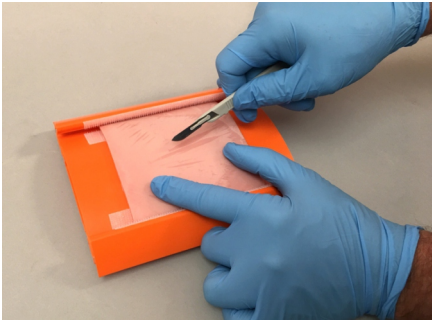
---



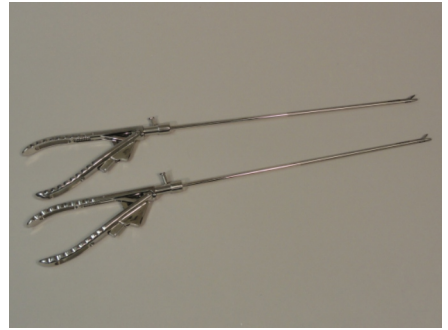
ENA Suture Kit



3-Layer Skin Pads



Skin Pad Holder



Mock Medical Instruments



ECMO Simulation Kit



Adjustable Height MITS  
Work Station



Lifelike Biotissue



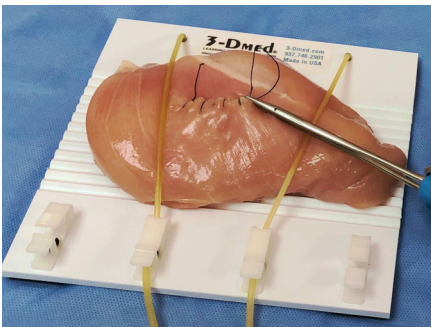
Task Trainers



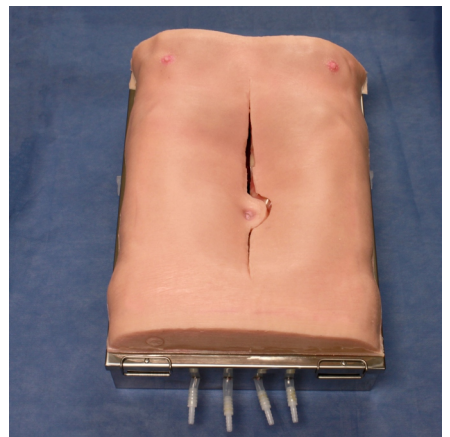
Organ Crossword Game



Ultrasound Phantoms



Tissue Mounting Board



AAA Abdomen Simulator

# Contact Us

## Headquarters

255 Industrial Drive  
Franklin, OH 45005, USA  
+1 + (937) 746-2901

## Sales

Jeff Worsinger  
+1 + (612) 201-6653  
sales@3-Dmed.com

**3-Dmed.com**

