



LEARNING THROUGH SIMULATION



T5-HD MITS

ORIGINAL INSTRUCTIONS

Got a question? We're ready. Here's how to connect.

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QUICK GUIDE

Your SimScope and instruments can be inserted into any of the fourteen ports. Trocars can be used in the port grommets. The 5mm and 10mm grommets are easily exchanged into any port.

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.



Size and Weight

Length: 21" (53.5 cm)
 Width: 13.5" (34.5 cm)
 Height 12" (30.5 cm)
 Weight: 18 lbs. (8 kg)

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.

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

Saturation: Increases or decreases color in relation to brightness.

Brightness: Adjusts the light level on the screen.

Sharpness: Adjusts edge contrast of objects being viewed.

Color Temperature: As 'cooler' light is generally better for tasks, the color temperature of our light is automatically set to 'cool'.

SimScope™



The SimScope™ can move in and out to change the field of view and swivels to provide a full range of motion. It will snap into any of the ports with the grommet removed.

Using Alternate Displays

The SimScope™ camera's image can be sent to any other monitor that has an HDMI input. Simply attach an HDMI cable (shielded is best and not included) between the Auxiliary HDMI output on the back of the trainer to an HDMI input on your monitor or a computer. This is useful for lectures, demonstrations or recording the video. Using the auxiliary HDMI output does not disconnect the signal to the built-in monitor.

SETUP INSTRUCTION



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



2. Mount the SimScope™ (see p.3). Then, plug the black cord into the receptacle marked "**12v DC**" on the right side of the trainer.



3. 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.

4. Insert the White RCA plug into the gold RCA jack labeled 



5. Insert the power cord into the receptacle on the side of the trainer. Plug the other end into a 100-240V AC outlet.

Note Aux. HDMI output location on back of unit.



6. Once trainer is powered, press the "" button for two seconds. The red LED light will turn green when the monitor is on. When turning the monitor off, press the "" button for one second.

SETUP INSTRUCTION CONTINUED...



7. To illuminate the work area, press the black switch (labeled "💡") that is located on the right 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.

THE 3D-MED® SIMSCOPE™

SETUP & ADJUSTMENTS

Note: Please remove lens cap before using.



Figure 1



Figure 2



Figure 3



Figure 4

1. The SimScope™ can be installed in any port. Simply remove the grommet from the desired port. To do this, press the outer edge of the grommet in toward the center then down (fig.1).

3. Connect the black power cord to the receptacle marked "⎓ 12v DC" below the light switch on the right side of the trainer.

5. To increase the resistance of the ball joint movement: tighten the three phillips screws ("A" fig.3) with a #1 phillips screwdriver. Adjust in small increments. **DO NOT OVER TIGHTEN.**

7. To replace a grommet, squeeze it on opposite sides and fit the slot in the grommet over the edge of the hole (fig.4) Work your way around the hole.

2. Insert the camera end of the SimScope™ into the hole (fig.2). Grasp the swivel collar and press until it "snaps" into place.

4. Connect the white RCA plug to the gold RCA receptacle marked "⎓" under the power receptacle.

6. To remove the SimScope grasp the swivel collar and pull out with a rocking motion (Fig. 3)

8. If there's a need to adjust the focus of the camera lens, you must first loosen the set screw in the side of the lens body with a 1.5mm flat head screwdriver. Adjust the focus by screwing the lens in or out then gently secure the set screw to maintain that setting.

T5-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



**Receptacle for SimScope™
Video Camera**



**Receptacle for SimScope™
Power Cord**



WARNING - Electrical Hazard



**WARNING - Disconnect Power
Prior to Access**

SCOPE AND LIMITS OF USE

This product is designed for laparoscopic surgical training tasks.

It is intended for simulation and training purposes only.

The product can accommodate animal tissue for training purposes.

Task inserts for use inside the MITS can be purchased at www.3-dmed.com.

This product must not be used on or with human patients.

Use only with the appropriate power source.

Unplug the product when not in use.

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



3-D Med
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DESIGNATION OF THE MACHINERY:
MINIMALLY INVASIVE TRAINING SYSTEM (MITS)
MODEL: TS-HD
SERIAL NUMBER:
INPUT: 100-240 VAC, 1.2 A, 50-60Hz
WEIGHT: 14 lbs. (6.5 kg)

T5-HD MITS ADDITIONAL INFORMATION



Weight and Lifting Requirements

The weight of the T5-HD is 14 lbs. (6.5 kg)

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 TS-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
- Damaged parts
- Loose parts
- Physical damage
- Screen damage
- Loose connections
- Exposed cables



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.

WARRANTY

To ensure warranty coverage or receive future service, please contact us via email at support@3-Dmed.com before taking any action. This will help expedite the process. Most issues can be resolved by email or phone.

3-D Med®, a division of 3-D Technical Services Co., warrants this product against defects in materials or workmanship, subject to the following conditions:

1. MONITOR AND CAMERA:

These components are covered under their respective manufacturers' warranties for a period of one (1) year. 3-D Med® will act as a liaison during your claim process; however, final coverage decisions rest with the manufacturer.

2. LABOR:

For a period of 90 days from the date of purchase, if 3-D Med® determines that a product or part is defective, we will repair or replace it at no charge.

After the 90-day warranty period, labor charges will be provided as an estimate upon request.

3. PARTS:

3-D Med® will replace defective parts with new or rebuilt components for a period of 90 days. After this period, replacement parts are available through 3-D Med®, and pricing will be provided upon request.

TO OBTAIN WARRANTY SERVICE:

You must obtain a Return Authorization Number by phone or email before sending the unit back.

The product must be shipped in its original packaging, or packaging that provides equal protection, and must be insured for its full value.

Uninsured shipments are sent at your own risk for loss or damage.

Warranty Exclusions:

This warranty does not cover:

- Cosmetic damage caused by the user.
- Damage due to acts of God, accident, misuse, abuse, negligence, or unauthorized modification.
- Damage resulting from improper operation, maintenance, or connection to an incorrect power supply.
- Repair attempts by anyone other than a trained technician at 3-D Med®
- Any product with an altered or removed factory-applied serial number.

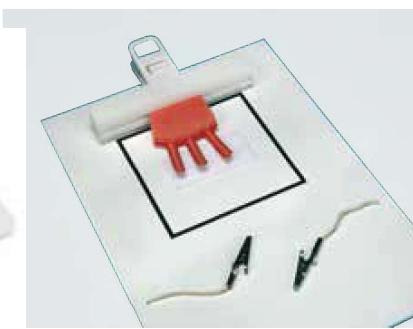
LAPAROSCOPIC TASK INSERTS



SOFT TISSUE SUTURE PAD



PLAYGROUND



PRACTICE BOARDS
FOR FLS® SKILLS



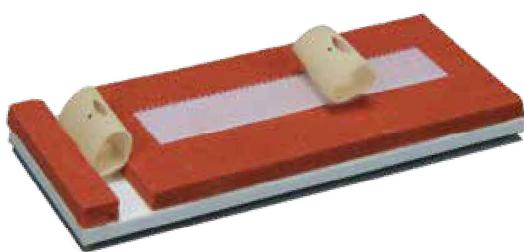
TRAY OF ORGANS



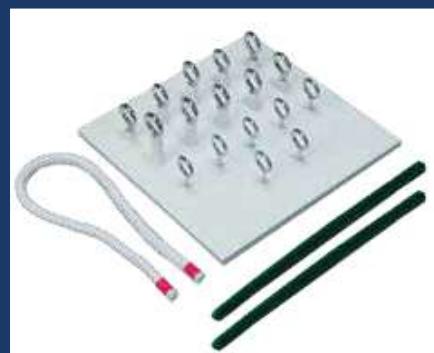
BOWEL SECTIONS



VAGINAL CUFF AND HOLDER



PENROSE DRAIN AND HOLOITOMY™ HOLDER



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

3-D MED

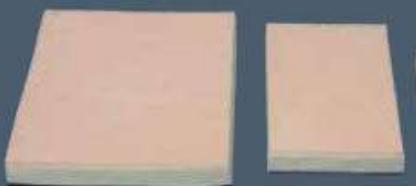
MORE PRODUCTS



ENA SUTURE KIT



SKIN PAD HOLDER



3-LAYER SKIN PADS



MOCK MEDICAL INSTRUMENTS



ECMO SIMULATION KIT



ADJUSTABLE HEIGHT MITS WORK STATION