

# THE 3-Dmed LARGE TRAINER

Model #  
TRLCD05RM

Patent #6659776

Thank you for purchasing the **TRLCD05RM** from 3-Dmed. Each unit has been fully tested prior to shipment and is easy to setup and use...

## SETUP INSTRUCTIONS

### Size & Weight

Length: 20-1/4"

Width: 12-7/8"

Height: 11-3/8"

Weight: 18 lbs.

1. Lift the lid by the black knob to open.
2. To install the Simscope™ see the separate instruction sheet included.
3. The power cord is stored inside the Trainer. Remove the cord by unhooking the black Rip-Tie® strap. The cord can be secured back in the strap for transportation or storage. Warning: Do not transport or ship the trainer without securing the cord tightly in the strap or damage to the screen could result!
4. Connect the power cord to the receptacle at the back of the Trainer. Plug opposite end into a standard 110-120v AC outlet.
5. If the screen is not already illuminated, find the button in the lower right corner of the screen bezel labeled "power". Press the button for two seconds and release. The screen will come on in a few seconds. The red LED light indicates that there is power supplied to the monitor. To turn the monitor off: press the "power" button for one second and release.
6. To illuminate the work area use one or both of the black rocker switches labeled "☹" that are located on the right side toward the back.
7. If monitor adjustments are needed, press the button below the screen labeled "menu". To scroll through the different controls press the "menu" button (repeatedly) until the desired heading is displayed. To make adjustments to that function press (and hold) the "up" or "down" button to change its value. The "mode" setting should always be "AV-1".

NOTE: The monitor is a 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, vinegar (diluted w/water) or isopropyl alcohol. Do not apply any cleaning solutions directly onto the screen. Never use cleaning products that contain abrasives or strong solvents. To prolong the life of the monitor and light turn them off when not in use.

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LEARNING THROUGH SIMULATION

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# THE **3-Dmed** LARGE TRAINER W/ MODULAR MONITOR FOR REMOTE PEDESTAL

Model #  
TRLCD05-RM

Patent #6659776

## Using Screen Assembly on the Pedestal

### Size & Weight

Length: 21"  
Width: 13.5"  
Height: 12.25"  
Weight: 23 lbs.

### Transferring to the Pedestal

1. To separate the pedestal from the trainer: (with the screen assembly closed and latched) grab the black handle on the back of the trainer and pull up while holding down the pedestal below. They are secured with Velcro® so there will be resistance.
2. Once separated, fold the pedestal 90° along the length and stand it vertically (with the slots to receive the monitor at the top) and place it near the trainer as show in fig.1.
3. With the trainer in position (fig.1), unlatch the screen assembly and leave it in the closed position. Locate the black thumbscrews on the back of the assembly (above the hinge) and remove them.
4. Grasp the screen assembly with one hand on each side. Now lift the assembly at the front (end w/black knob) slightly and proceed to lift it straight up (vertically) releasing it from the mounting flange on the hinge.
5. Place the locating tabs on the bottom of the screen assembly into the slots on the pedestal (fig.2) until they are fully seated. Make sure the screen is toward the holes in front of the slots and that the thumbscrews and their retaining chains are positioned in front of the pedestal (fig.3).
6. Continue to hold the screen assembly and secure it with the thumbscrews through the holes in the pedestal (fig.4).

### Returning to the Trainer Body

1. Position the mounting flange for the screen on the body in the upright position.
2. Hold the screen assembly while removing the thumbscrews that retain it to the pedestal.
3. Remove the screen assembly from the pedestal and feed the black cord back into the trainer body as you move the screen assembly into position on the mounting flange. Do this carefully, not allowing the cord to become pinched or twisted.
4. Secure the thumb screws through the back of the assembly to the mounting flange.

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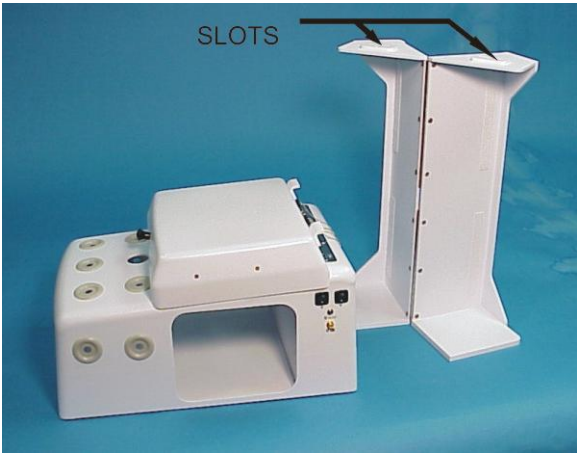


fig.1

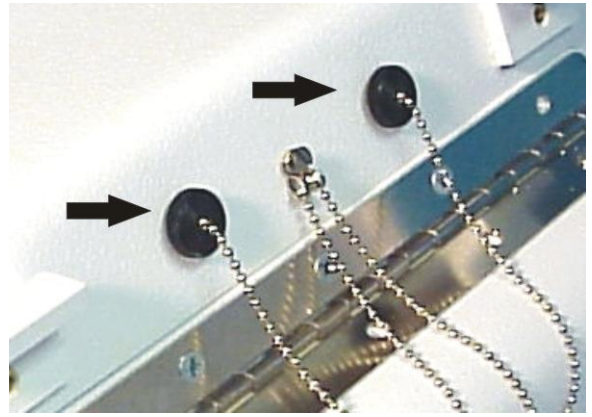


fig.2



fig.3



fig.4



fig.5



fig.6



fig.7

# THE 3-D<sub>Med</sub> SIMSCOPE™

## SETUP & ADJUSTMENTS

**NOTE: Please remove lens cap before using.**



Figure 1.



Figure 2

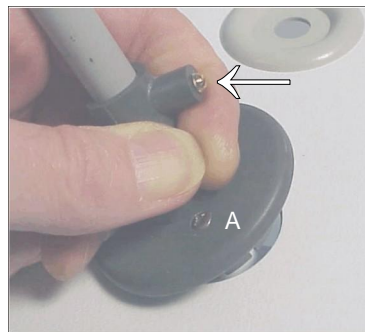





Figure 3

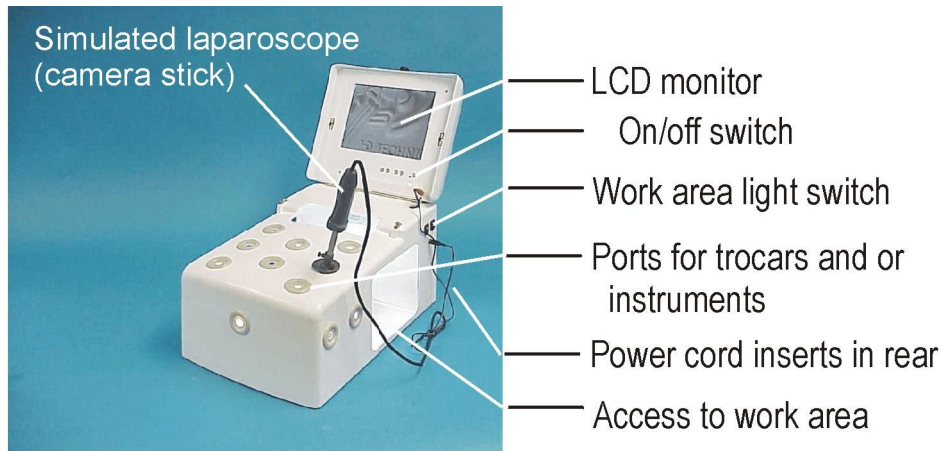


Figure 4

1. The Simscope™ can be installed in any port location. Simply remove the gray grommet from the desired location. To do this press the outer edge of the grommet in toward the center then down into the trainer. (Fig.1).
2. Insert the camera end of the Simscope™ into the hole (fig. 2). Grasp the swivel collar and press into the open hole until it “snaps” into place.
3. Connect the black power cord elbow to the receptacle marked “ 9v DC” below the light switches on the right side of the trainer.
4. Connect the white RCA plug to the gold RCA receptacle marked “ ” beneath the power receptacle.
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!
6. To adjust the resistance of the shaft slide movement: turn the insert in the tension adjustment boss (arrow fig. 3) with a small, flat blade screwdriver. Turn clockwise for more resistance, or counter clockwise for less. **DO NOT OVER TIGHTEN or DAMAGE** to the shaft **WILL RESULT**. Adjust in small increments.
7. To remove the Simscope™ grasp the swivel collar placing your forefinger under the tension adjustment boss for leverage, and pull out with a rocking motion (fig. 3).
8. To replace a grommet, squeeze it on opposite sides until it is narrower than the hole and fit the slot in the grommet over the edge of the hole (fig. 4). Work your way around the hole.
9. 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 .05” hex key (Allen™ wrench). Adjust the focus by screwing the lens in or out then gently secure the set screw to maintain that setting.

# THE TRLCD05 LARGE BODY LAPAROSCOPIC TRAINER

## QUICK GUIDE



Your instruments can be inserted into any of the thirteen open ports and can be used with or without trocars.

The standard grommet is designed to hold a 10mm trocar. Grommets with 5mm holes are also available. Both sizes are interchangeable and easily exchanged for any combination.

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 or where moisture is present.

### Monitor Display Settings:

To make adjustments see the "Setup Instructions"

Brightness - adjusts the light level on the screen.

Contrast - it increases/decreases the separation between light and dark (example: create more shadows).

Color - controls the level of the color (ranging from grey tones to intense yellow)

Tint - controls the color balance (from green to magenta).

### Simscope™ Adjustments:

The Camera Stick can move in and out to change the field of view and swivel providing wide range of viewing positions. It will fit into any of the ports. To adjust the focal range see the "Setup & Adjustments" sheet.

### 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 white RCA plug from the RCA jack "G-10" and attach an RCA female/male extension cord (not supplied) between the trainer cord and the alternate monitor. This works great for lectures or demonstrations.

### Recording and using multiple monitors:

Activity can be recorded digitally by connecting the 3-Dmed SSVI07 Video Interface between the trainer and a digital storage device (computer/network). Analog recording can be done as well. Additionally, the SSVI07 can split the input signal providing outputs for up to four monitors. For more information please visit our web site.

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