

User Guide

Fundamentals of Laparoscopic Surgery™ Trainer System & Accessories



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Limbs & Things Inc. P.O. Box 15669, Savannah, GA 31416, USA

Fundamentals of Laparoscopic Surgery™ Trainer System & Accessories

Limbs & Things, a leader in medical and surgical simulation for the past 25 years, has worked closely with the SAGES-ACS FLS Committee to update the FLS Trainer and is pleased to present a new series of Laparoscopic training products designed exclusively for the FLS Program.

The new versatile and exciting design meets the need for gaining fundamental skills at an affordable cost. Limbs & Things offers three purchasing options for the FLS Trainer, which allow for parts such as the camera and light source to be easily replaced by the customer.





Components: Consumables

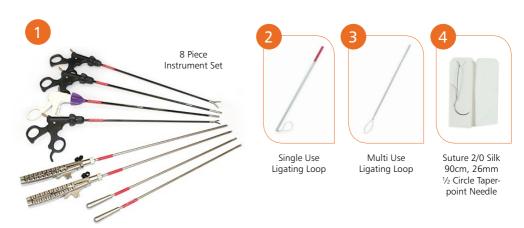
Note: The following FLS Trainer Systems do not include consumables: Part No's: 50301, 50303, 50305



Additional Equipment Available for Purchase

Instruments, Single/Multi Use Ligating Loops and Sutures can be purchased in multi-packs from the FLS website - www.fls-products.com

Note: Ligating Loops are required for Task Three and Sutures are required for Tasks Four and Five.



Attaching New Trocars





Before attaching the frame to the unit, insert the trocars through the holes in the black neoprene





Turn the frame upside down and place on a hard surface. Attach the trocar rings so that the trocar is secure

Attaching the Frame





Align the two holes either side of the frame with the black clips on either side of the unit to fit the frame in place



Once the frame is in place, twist the black clips to secure

Assembling the Trainer Box



The Trainer will arrive in two halves



Ensure the trainer is aligned correctly (power points and alligator clips should be at the front of the trainer)



Line up the holes on the top half of the model with the connecting points on the rubber sleeve on both sides of the model



Gently press the top half of the model down onto the rubber connecting points on both sides. The two halves of the model are now securely fixed

Connecting a Monitor

Note: If you are connecting a different monitor than the one provided with the FLS system, please refer to your monitor's instruction manual for connection instructions.

The positioning of the yellow connector may vary depending on the monitor being used as illustrated in photos 3 and 4



Attach the power cable to the power connection point and plug into a power source



Attach the cable with the yellow connector to the remaining connection point



The TV comes with the adaptor in the picture. Plug this into the top socket on the left hand side of the TV and then plug the long cable with yellow ends into the yellow socket on that adaptor



If you are connecting a different monitor than the one provided, plug the other end of the yellow connector into the relevant connection on the back of the monitor

Configuring the Monitor

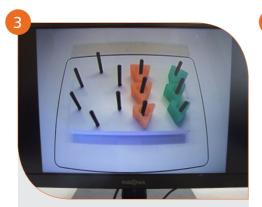
Note: If you have connected a different monitor than the one provided with the FLS system, please refer to your monitor's instruction manual for configuration instructions.



Once the trainer is linked to the monitor, the power light on the bottom right will show that the TV has power going to it and is in standby mode



Press the standby button on the remote control



The monitor should now display the camera view



IF THE MONITOR IS NOT DISPLAYING THE CORRECT CHANNEL, Press the INPUT button on the remote control

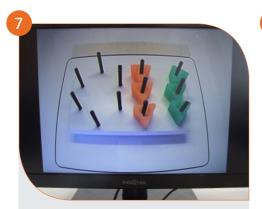
Configuring the Monitor (Continued)



The Input Source menu will display. If TV is selected, use the arrows on the remote to scroll down the menu



Select Component/AV on the Input Source Menu, and press enter on the remote control



After a few seconds the AV channel will display the camera view



Press the Aspect button on the remote control to change the aspect ratio.

There are 4 options to choose from: Normal, wide, cinema and zoom

Adjusting the Camera (Slider) to Center the Image



Twist the two black clips and detach the frame from the top of the trainer



Locate the single screw that holds the camera in place on the trainer box



Using a Phillips screwdriver (not included), loosen the screw in order to realign the camera



Slide the screw to the preferred position (looking at the monitor to check the camera view)

IMPORTANT:

Please, ensure that the plastic cap covering the camera lens is removed before use

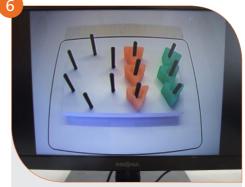








The monitor view can also be adjusted by gently moving the camera unit up or down



Check on the monitor that the image is displaying as required



Once the camera is in the correct position, tighten the screw to hold the camera in place



Re-attach the frame to the top of the trainer

Notes

Part No: 065-701 Issue 8, Sep 2019 © 2019 Limbs & Things