User Guide

VALS™
Veterinary Assessment of Laparoscopic Skills

50307 TV
50308 USB

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limbsandthings.com

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VALS™ Laparoscopic Skills Trainer (TV)

A brand new, cost effective solution for acquiring the basic skills required for laparoscopic surgery as recognized by the VALS training and assessment program for veterinary surgeons.

This trainer box comes with a TV Camera, light source and pre-ported skin frame for trocars.
Components: Trainer System

1. Trainer Box Top
2. Trainer Box Base
3. Skin Frame
4. Trocars
5. Camera
6. Monitor cable
7. Power Cable and Adaptors
8. String and Alligator Clips
A brand new, cost effective solution for acquiring the basic skills required for laparoscopic surgery as recognized by the VALS training and assessment program for veterinary surgeons.

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Components: Trainer System

1. Trainer Box Top
2. Trainer Box Base
3. Skin Frame
4. Trocars
5. USB Camera
6. USB Lead
7. Power Cable and Adaptors
8. String and Alligator Clips
Components: Consumables

This applies to both the TV (50307) & USB (50308) Trainers

Task Two: Precision Cutting

1. Jumbo Clip Retainer
2. 100 Gauze Pads with Single Circle

Tasks Four & Five: Knot Tying

1. Suture Block with 100 Penrose Drains

To purchase other products for Tasks One and Three please visit: https://secure.vetmed.wsu.edu/VALS/shop/

Additional Equipment Available for Purchase

(This applies to both the TV & USB Trainers)

Instruments and Sutures can be purchased in multi-packs from our website - limbsandthings.com

Note: Sutures are required for Tasks Two and Three.

1. 8 Piece Instrument Set
2. Suture 2/0 Silk 90cm, 26mm, ½ Circle Taperpoint Needle
Attaching New Trocars

This applies to both the TV (50307) & USB (50308) Trainers

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

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

Attaching the Frame (This applies to both the TV & USB Trainers)

1. 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.

2. Once the frame is in place, twist the black clips to secure.
Assembling the Trainer Box

This applies to both the TV (50307) & USB (50308) Trainers

1. The Trainer will arrive in two halves

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

3. 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

4. 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

This applies just to the TV (50307) Trainer

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

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

3. Ensure the power cable is connected to the Monitor and plugged into a power source.

4. Plug the other end of the yellow connector into the VIDEO/Y connection on the back of the monitor.
Configuring the Monitor

This applies just to the TV (50307) Trainer

1. Once the trainer is linked to the monitor. The power light on the bottom right of the monitor will light up red.

2. Press the standby button on the remote control.

3. The monitor should now display the camera view.

4. IF THE MONITOR IS NOT DISPLAYING THE CORRECT CHANNEL, Press the INPUT button on the remote control.
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.
Connecting a Laptop

This applies just to the USB (50308) Trainer

1. Locate the USB connection point on the side of the Trainer (next to the power connection point), and plug in the USB cable.

2. Plug the USB end of the cable into the USB port in the laptop.

3. The laptop is now connected to the Vals Laparoscopic Skills Trainer.
Using the USB Camera on a PC

This applies just to the USB (50308) Trainer

To view the camera screen on a laptop you’ll need to install a USB Camera viewing program. We recommend using the ECap software. To download the software visit the following website:

https://goo.gl/BrkxFa

1. Select here for Windows XP, 2000 or Vista
2. On the next screen click the download button
3. Once downloaded find the file in your downloads, right click it and select ‘extract all’
Using the USB Camera on a PC

This applies just to the USB (50308) Trainer

4. Select the location you want to save the file to and click ‘extract’

5. Once extracted you can click the ‘ECap.exe’ icon to run the camera program
Using the USB Camera on a PC

This applies just to the USB (50308) Trainer

To use the ECap USB Camera software, first make sure your camera is plugged into your USB Port and the lens cap has been taken off the camera, then click the Ecap icon from your laptop.

1. The program should load up and display the camera view inside the Trainer.

2. Click the red triangle button to start recording. When recording the screen view will revert to a smaller size. You can resize the window by clicking and dragging the corners of the window outwards.

3. Click the grey X to stop recording. The video will be stored in the ‘videos’ folder on the laptop.
To use the USB Camera on a Mac, you'll need to use QuickTime Player.

1. Click on Applications, locate QuickTime Player and click on the icon.

2. In the top left corner of the screen, click on ‘File’ and select ‘New Movie Recording’.
Using the USB Camera on a Mac

This applies just to the USB (50308) Trainer

3. The image from the camera should display

4. Click on the down arrow, and ensure that ‘USB 2.0 Camera’ is selected. Also make sure that under the Quality listing, ‘Maximum’ is selected.

5. Click ‘Record’ to record video

6. Select ‘File’ on the top left of the screen and click ‘Save’ to save the video.
Adjusting the Camera (Slider) to center the image

This applies to both the TV (50307) & USB (50308) Trainers

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

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

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

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

IMPORTANT:
Please ensure that the plastic cap covering the camera lens is removed before use.