

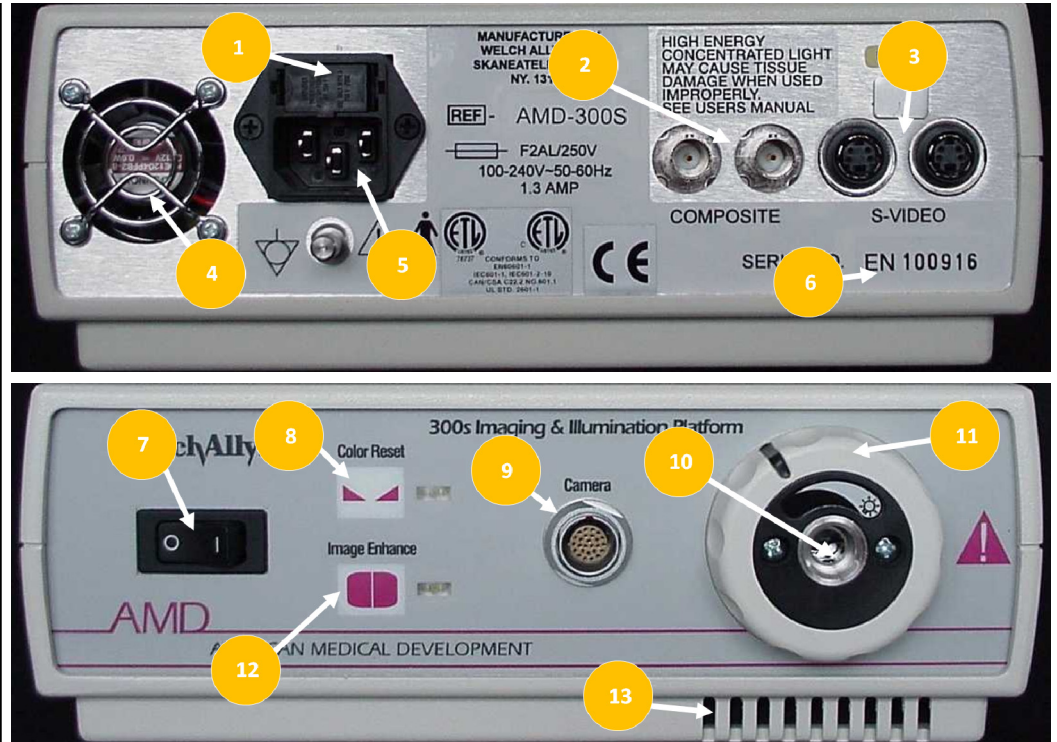
# The Welch Allyn Otoscope

How to capture images using the Welch Allyn Otoscope

**Background:** Including detailed images in a telemedicine case is one of many the functions provided by the tConsult Cart software. The Welch Allyn Otoscope allows you to capture images of the tympanic membrane, ear canal and surrounding tissue. Find out more at [www.AFHCAN.org](http://www.AFHCAN.org).

## The Welch Allyn Otoscope

1. Fuse Drawer
2. Composite Video Outputs
3. S-Video Outputs
4. Fan & Grill
5. Power Output
6. Serial Number
7. Power Switch
8. Color Reset Button
9. Camera Port
10. Light Port
11. Light Control Knob
12. Image Enhance Button
13. Light Vent



**DO NOT BLOCK THE COOLING FAN**

## Operating The Welch Allyn Otoscope

1. Ensure the power switch (item 7. above) is turned on. When the power switch is on, the fan will power up and light will be emitted from the end of the Otoscope tip and through the light vent.

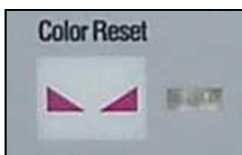


2. Ensure that the Light Control Knob is turned all the way to the right for maximum light output.



**ONCE THE LAMP IS TURNED ON IT WILL TAKE AT LEAST 15 SECONDS TO FULLY LIGHT UP WHEN YOU TURN ON THE LAMP LEAVE IT ON FOR AT LEAST 60 SECONDS**

3. Perform a White Balance or Color Reset. A white balance or color reset should be performed periodically, after the lamp is replaced or whenever the image color appears distorted. To obtain good clinical images the natural colors must be represented in the image. The white balance or color reset is used to ensure accurate color reproduction.



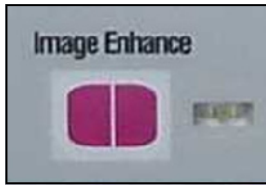
To perform a White Balance:

1. Aim the Otoscope tip 1/2 to 1 inch away from a uniformly white sheet of paper.
2. While looking at the Otoscope light box, press the Color Reset button. A green light will flash in the window to the right of the color reset button.
3. When it is done flashing, the white balance is complete. Release the Color Reset button.

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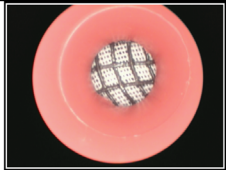
### Additional Settings -



**Image Enhance (Button # 12)-**  
Press the Image Enhance button to turn on image enhance before or after focusing the Otoscope.



Out of Focus



In Focus

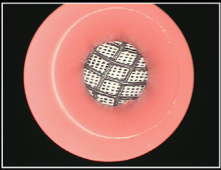
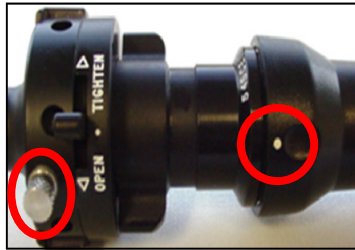


Image Enhance On

**White Dot –** The white dot on the camera head should always be oriented to the top of the ear, this ensures that the image is correctly oriented on the AFHCAN Cart monitor.



To adjust the position of the white dot, loosen the set screw on the coupler, rotate the camera head, and then re-tighten the set screw.

### Using the Otoscope

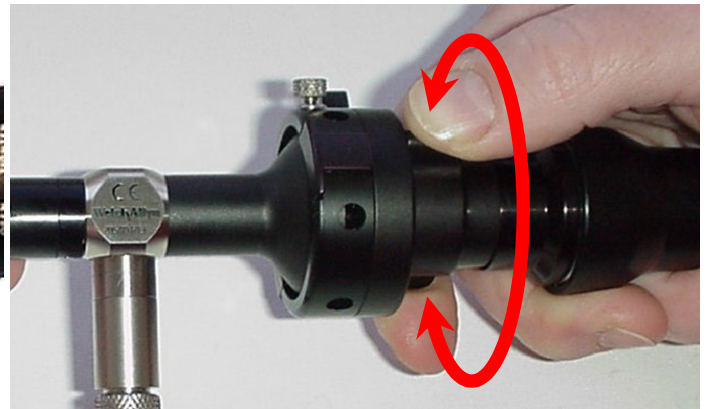
Twist a Welch Allyn speculum clockwise onto the tip of the Welch Allyn Otoscope until it is tightly secured; see below.



Use an alcohol swab to clean the tip of the Welch Allyn Otoscope, attach the insufflation blub to the earscope, tilt the tip downward and squeeze the insufflation bulb vigorously. Any excess alcohol and/or debris will be forced from the Otoscope tip.



Pre-focus the Otoscope by placing the focus tool on the end of the Otoscope and turning the focusing ring until the image is clearly focused on the AFHCAN Cart monitor.



Hold the Welch Allyn Otoscope as pictured when imaging the ear canal and the tympanic membrane.

When you are finished be sure to hang the hand piece in the bracket as pictured here.

