

Materials List for:

# SwarmSight: Real-time Tracking of Insect Antenna Movements and Proboscis Extension Reflex Using a Common Preparation and Conventional Hardware

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## Materials

Name	Company	Catalog Number	Comments
Insect harness	N/A	N/A	Use materials needed for Protocol sections 1-3.1.1 of Smith & Burden (2014)
Odor delivery source	N/A	N/A	Use materials needed for Protocol section 3 of Smith & Burden (2014)
Vacuum source	N/A	N/A	Use materials needed for Protocol section 3 of Smith & Burden (2014)
LED connected to odor delivery source	N/A	N/A	Use materials needed for Protocol section 3 of Smith & Burden (2014)
Low Voltage Soldering Iron	Stannol	Low Voltage Micro Soldering Iron 12V, 8W	
DC Power Supply	Tekpower	HY152A	
Tripod	AmazonBasics	50-Inch Lightweight Tripod	Optional
Camera	Genius	WideCam F100	FLIR Flea3 or another camera with manual focus can be used.
Camera software	Genius	N/A	Software comes with camera. On MacOS, Photo Booth app can be used to record videos.
Camera shutter speed software	Genius	N/A	Genius camera software allows shutter speed setting. In Mac OS, iGlasses by ecomm can be used instead: <a href="http://www.ecamm.com/mac/iglasses/">http://www.ecamm.com/mac/iglasses/</a>
Windows Operating System	Microsoft	Windows 7 Professional	Versions 7 or later are compatible. Oracle VirtualBox, Parallels Desktop, or VMWare Fusion can be used to create a Windows virtual machine in MacOS environments.
SwarmSight software	SwarmSight	Appendage Tracking	Download from <a href="http://SwarmSight.org">http://SwarmSight.org</a>
R software	R Project	R 3.4.0	Download from: <a href="https://cran.r-project.org/bin/windows/base/">https://cran.r-project.org/bin/windows/base/</a>
R Studio software	RStudio	RStudio Desktop	Download from: <a href="https://www.rstudio.com/products/rstudio/download/">https://www.rstudio.com/products/rstudio/download/</a>