

**Hardware: This bill of materials lists the components for the hardware required for the “head”/box of the camera.**

- For the “Total Expense” column: Amounts with (\*) do not include shipping or tax (same as “Cost”). If the product was ordered on Amazon, our organization had free shipping, which affects the Total Expense. Shipping and tax varies depending on location.
- Note about physical stand: The stand we used is also included. However, we connected the box to the stand using a 3D-printed joint. Additionally, the attachment for the solar panel to the box was also 3D-printed. (We advise finding a sturdier way to attach the solar panel to the box, and the same for the box-stand attachment.)

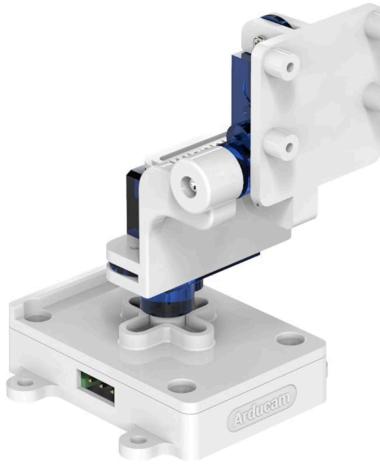
**Software: The software instructions could be found on the GitHub README: <https://github.com/Tongyuang/FarmGazer>**

- Apps used: Expo Go. You can download Expo Go on your phone.

The instructions on this bill of materials or on GitHub can be updated however you might need, or if you need any clarifications.

– Best, Joshua Sanchez; Team FarmGazer.

URL to Purchase Product	Product Description	Cost	Quantity	Total Expense	Image
<a href="https://www.amazon.com/gp/product/B01LPLPBS8/ref=ppx_od_dtt_b_asin_title_s00?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B01LPLPBS8/ref=ppx_od_dtt_b_asin_title_s00?ie=UTF8&amp;psc=1</a>	Raspberry Pi 3 Model B Board	\$42.28	1	\$46.55	

	<b>Raspberry Pi Camera Module V2-8 Megapixel,1080p (RPI-CAM-V2)</b>	\$ 20.79	1	\$22.89	 A close-up photograph of the Raspberry Pi Camera Module V2. It is a green printed circuit board with a black camera lens and a small white label that reads "Raspberry Pi Camera V2.1". A grey ribbon cable is attached to the bottom of the module.
	<b>Arducam Upgraded Camera Pan Tilt Platform Compatible with Raspberry Pi Camera Module 3/V1/V2, Nvidia Jetson Nano/Xavier NX</b>	\$26.72	1	\$29.42	 A photograph of the ArduCam Pan-Tilt Camera Mount. It is a white, articulated metal mount designed to hold a Raspberry Pi Camera Module. The mount has two joints, one for horizontal movement and one for vertical movement, allowing it to be positioned in various directions. The ArduCam logo is visible on the base of the mount.

<a href="https://www.amazon.com/gp/product/BOB87V7QTH/ref=ppx_yo_dt_b_asin_title_o02_s00?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/BOB87V7QTH/ref=ppx_yo_dt_b_asin_title_o02_s00?ie=UTF8&amp;psc=1</a>	<b>TICONN Waterproof Electrical Junction Box IP67 ABS Plastic Enclosure with Hinged Cover with Mounting Plate, Wall Brackets, Cable Glands (Clear, 8.7"x6.7"x4.3")</b>	\$26.83	1	\$29.54	 
<a href="https://voltaicsystems.com/arc10w-kit/">https://voltaicsystems.com/arc10w-kit/</a>	<b>Arc 10W Solar Kit (Battery and Solar Panel)</b>	\$75.00	1	\$75.00*	
<a href="https://www.adafruit.com/product/5704">https://www.adafruit.com/product/5704</a>	<b>Witty Pi 4 HAT – RTC &amp; Power Management for Raspberry Pi</b>	\$37.50	1	\$37.50*	

<a href="https://www.amazon.com/HME-360-degree-Weather-Resistant-Installation-Compatibility/dp/B008IADWMW/ref=sr_1_8?crid=Q4EPHZ63OMO&amp;keywords=camera+stand+for+wild&amp;qid=1700609144&amp;s=electronics&amp;sprefix=camera+stand+for+wild%2Celectronics%2C123&amp;sr=1-8">https://www.amazon.com/HME-360-degree-Weather-Resistant-Installation-Compatibility/dp/B008IADWMW/ref=sr_1_8?crid=Q4EPHZ63OMO&amp;keywords=camera+stand+for+wild&amp;qid=1700609144&amp;s=electronics&amp;sprefix=camera+stand+for+wild%2Celectronics%2C123&amp;sr=1-8</a>	HME Trail Camera Holder Ground Mount	\$30.34	1	\$30.34*	
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