

Pendulum Vision Setup (Part List)

The Vision-based Learning Setup for the Quanser Pendulum consists of the following:

Product	Description	Store	Notes
FLIR Blackfly S USB 3.0 Camera	<ul style="list-style-type: none">Model: BFS-U3-04S2C-CSSerial Number 191944490.4 MP ColorSony IMX287max 522 fps	flir.de	
FLIR Blackfly Tripod Adapter	Tripod adapter for Blackfly S models	flir.de	Needed if you want to mount camera on a cold shoe tripod
Edmund Optics Lens Vivos	5mm - 50mm Focal Length, Varifocal Video Lens Product Number: #55-256	edmundoptics.de	
Tripod	Kaiser Fototechnik Kamera-Tischstativ DSLR Tischstativ 1/4 Zoll Arbeitshöhe=18 - 30 cm	conrad.de	Of course other tripods can be used as well
Quanser Qube Servo 2	Furuta Pendulum System Quanser (product link)	quanser.com	
Custom Testbed	Wooden testbed for standardizing the environment	carpentry	
Light Setup	Flat Light Source mounted on tripod	Foto Walser, Foto Koch, Amazon	<p>Ordered Parts are the following:</p> <ul style="list-style-type: none">Walimex pro LED Foto Video Square 170 Daylight Set https://www.foto-walser.de/studiofotografie/dauerlicht/led-leuchte/walimex-pro-led-foto-video-square-170-daylight-setWalimex pro Blitzschiene V-Rail https://www.foto-walser.de/zubehoer/kamerazubehoer/blitzgeraet/blitzzubehoer/blitzschiene/walimex-pro-blitzschiene-v-railHot Shoe Adapter https://www.fotokoch.de/Rotolight-Hot-Shoe-to-1-4-inch-Male-Adapter_26260.html <p>Alternative:</p> <ul style="list-style-type: none">Neewer 176 LED 5600K https://www.amazon.de/gp/product/B06XDFGDCX/ref=ox_sc_act_title_3?smid=A1QES8UG50BJBL&psc=1Ulanzi PT-2 Stativ Dual Mount Cold Shoe Plate Extension https://www.amazon.de/gp/product/B07CPPJB8F/ref=ox_sc_act_title_1?smid=A9GVV243NDT9Z&psc=1MENGES® 4 Stück 1/4" Schraube Adapter für Kamera Blitzschuh Halter https://www.amazon.de/gp/product/B00LO664EK/ref=ox_sc_act_title_2?smid=A1X6OJZ1Y4KQGU&psc=1