

RPI Underwater Open Source AI Camera

Realize your underwater AI vision with the lowest cost and fastest speed.

Product Features

- **Best For:** Prototyping, data logging, and general control.
- **Raspberry Pi Architecture:** 3B + Rpi Camera V2 NoIR
- **Mature Ecosystem:** OpenCV / ROS / Python / Massive Case
- **100% customizable:** from drivers to algorithms
- **System Compatibility:** IMU, Sonar, Flight Controller, Main Controller
- **Development:** Broad Linux/Python ecosystem; easy to tweak.



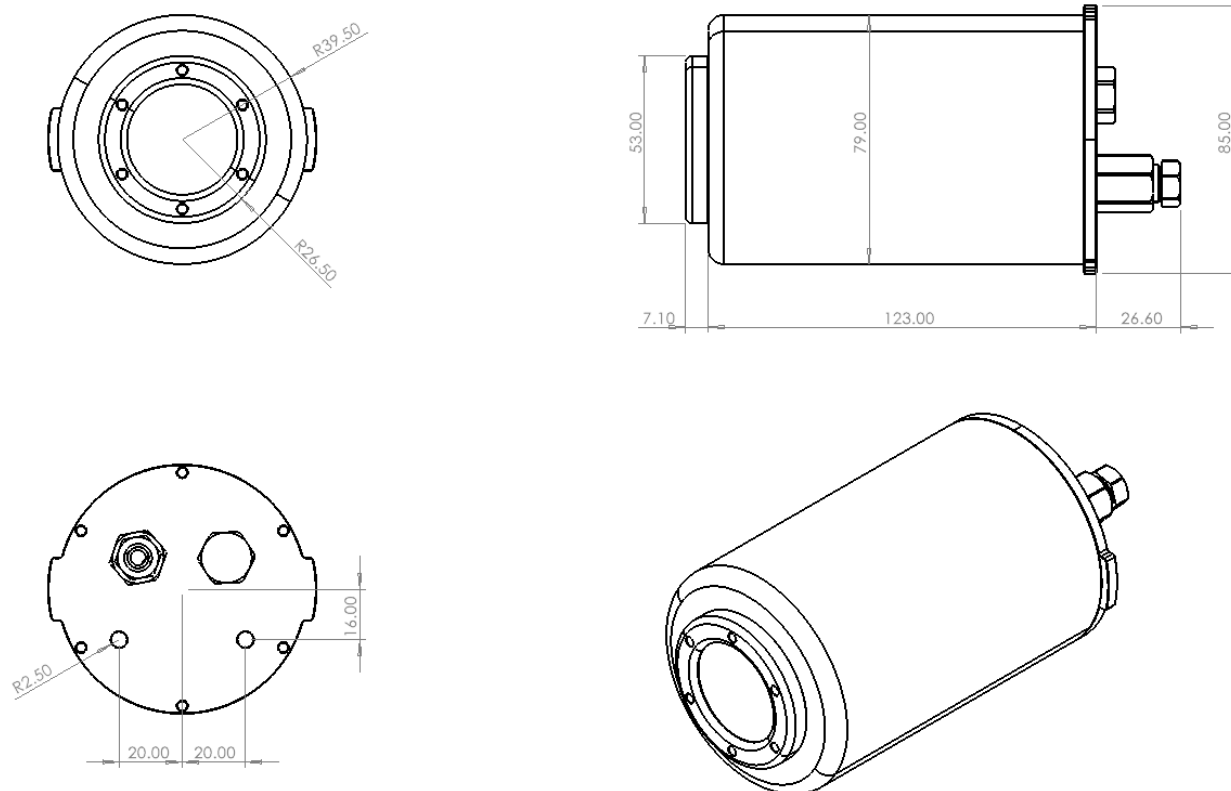
Application Scenarios

- Scientific Research & Education
- Geek/DIY Creative Modification
- Customizable Development & Rapid Prototyping

Basic Specs

Depth Rating	300m
Weight in Air Water	0.8kg 0.1kg
Camera Model	RPi Camera V2
Image Sensor	Sony IMX219
Resolution	8MP
Sensor Size	1/4 inch
Aperture (F)	2.0
Focal Length	3.04mm
Field of View (FOV)	Approx. 62.2° (Diagonal)
Focusing	Manual Focus
Video Support	1080p30/720p60/640×480p90
Protocol	Ethernet
Power Supply	12VDC, Approx. 15W
Packing List	RPI Underwater Camera *1; Standard 2m seawater-resistant cable (Length customizable up to 70m, contact customer service for longer distances)
Development	OpenCV / ROS / Python

Main Dimensions

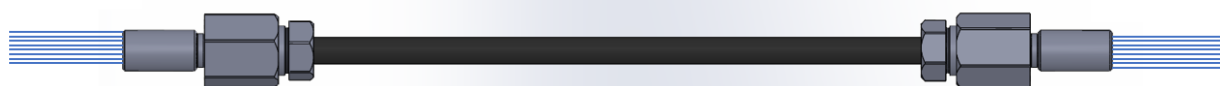


- Product specifications are subject to change without further notice. Please refer to our official website for latest information.

Wiring Instructions

Camera Pressure Housing

Main Control Housing



Camera Bulkhead Connector Wiring Diagram

Grey	GND
Grey/ White	+12VDC (LED Lighting Power)
Blue	GND
Blue/White	+12VDC (Camera Power)
Green	Rx-
Green/White	Rx+
Orange	Tx-
Orange/White	Tx+