

## 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:** 4B + Rpi Camera V2
- **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.



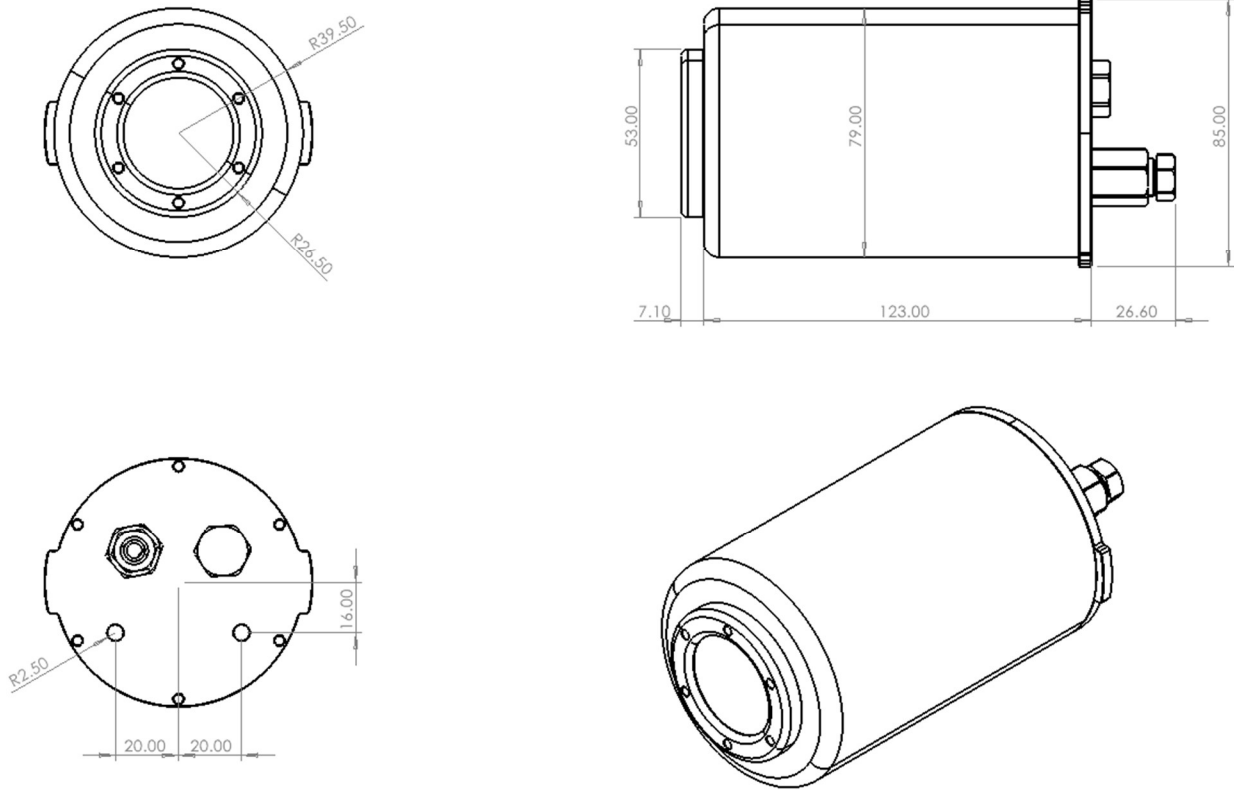
### Application Scenarios

- 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 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+