

ARC

Autonomous Recording Camera

The ARC (Autonomous Recording Camera) is a full ocean rated, stand-alone, subsea imaging system. Powered by an internal rechargeable Li-ion battery, the ARC can be programmed for a wide variety of subsea imaging missions. Paired with Wassoc's Subsea LED Light (SLL), the ARC can autonomously illuminate and capture HD footage and imagery in ocean depths up to 6000 meters.



Features



Rechargeable
Li-ion Battery



12MP / 1080p
Image Sensor



6000 Meter
Rated



Wifi
Connectivity

- Record 1080p HD footage
- Capture 12MP stills (single and burst)
- Adjustable shutter speed, white balance, and sensor gain
- Timelapse photography
- Subsea LED light mode and intensity
- Integral depth switch/sensor
- Time, date, and depth overlay
- Deep Sleep mode for multi-month deployments

How It Works

The ARC is charged and activated through a single subsea connector eliminating the need to open the housing during normal use. Once activated, the ARC performs the programmed sequence until it is de-activated, or the battery is depleted. Wireless programming and data download are accomplished through an intuitive browser-based GUI. In addition to autonomous operation, the ARC can interface with an external system via RS-232.

Specifications

Mechanical

Housing Material Titanium
Dimensions (OD x L), in [cm] Ø2.75 [7] x 8.3 [21]
Weight (air/water), lbs [kg] 5.8 [2.6] / 4 [1.8]
Connector SUBCONN MCBH8M

Environmental

Depth Rating 6000m
Operating Temp -10 to +50°C

Electrical

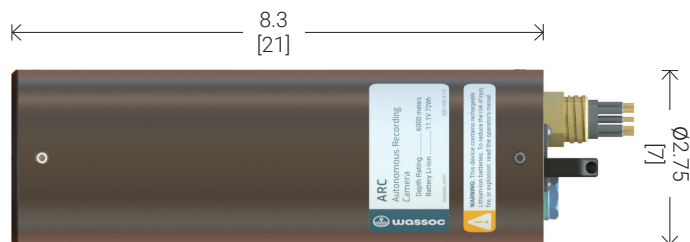
Power Supply 11.1VDC Nominal, 72Wh Li-ion Rechargeable Battery
SSD 512 GB

Optical

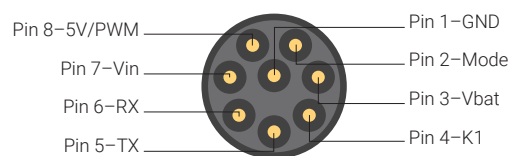
Viewport Material Sapphire
Camera 12MP 1/2.3 Backlit CMOS
Lens 3.9mm Focal Length, F2.8 FOV: 75° (multiple options)

System

Comms RS-232



Top View
*Not to Scale
in [cm]



Connector Detail
*Not to Scale