

# Swordfish

## Imaging Payload for small AUVs



### FEATURES

- ▶ Fully-Integrated imaging payload for small AUVs
- ▶ Geo-referenced digital still image and video capture
- ▶ High-output dual-mode lighting (strobe or continuous)
- ▶ On-board CPU and solid-state data storage
- ▶ Customizable for real-time machine vision tasks
- ▶ Customizable for any AUV
- ▶ 300m rated

# Technical Specs

## Swordfish

PARAMETER	Swordfish
Model Number	AR206
Depth Rating	300m (984ft)
Operating Temperature	0°C to 40°C
Dimensions	4.875" (124mm) dia. X 6.125" (156mm) L
Weight	1.8kg (in air), ~100-200g buoyant (in water)
Housing Materials	6061-T6 Aluminum (AHC black), Acrylic viewports, Delrin shroud, 316SS fasteners
Power	9-28Vdc @ 15-50W
Camera Sensor	12.3MP (4096x3000), 1.1" format, back-illuminated color CMOS with Global Shutter
Camera Optics	12mm f/2.8 fixed-focal-length lens. -0.5% distortion (max)
LED Lighting	60,000 lm (strobe mode), 6,000 lm dimmable (torch mode), 5700K color temperature.
Max Strobe Pulse / Rate	5ms / 2Hz
Diagonal Angle of View	71° (in air), 51° (in water)
Diagonal Field of View	Approx. 96% of altitude (in water)
Imaging Altitude	3-5m (recommended)
Control	RS232 Serial
Data Download	Gigabit Ethernet
Max Rep Rate (12.3MP stills)	~4Hz
Video Modes	720pHD @ 60fps, 1080pFHD @ 30fps, 4K UHD @ 10fps
Onboard Storage	512GB, solid-state drive (SSD)

