

Swordfish

Imaging Payload for small AUVs



FEATURES

- ▶ Fully-integrated, turn-key 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 specifications on reverse

Technical Specs

Swordfish

PARAMETER	SWORDFISH
Model Number	AR206
Depth Rating	300m (984ft)
Operating Temperature	0°C to 40°C
Dimensions	4.875in (124mm) Dia. x 6.125in (156mm) L
Weight	1.8kg (in air), buoyant +150g (in seawater)
Housing Materials	6061-T6 AHC black aluminum, 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 temp
Max Rep Rate	4Hz @ full resolution
Max Strobe Pulse / Rate	5ms / 2Hz (Std), higher rates optional
Diagonal Angle of View	71 deg (in air), 51 deg (in water)
Diagonal Field of View	Approx. 96% of altitude (in water)
Imaging Altitude	3-5m recommended
Control	RS232 Serial or Gigabit Ethernet
Data Download	Gigabit Ethernet
Video Modes	720p HD @ 60fps, 1080p FHD @ 30fps, 4K UHD @ 10fps
Onboard Storage	1 TB solid-state drive (SSD)

