

ArtemisSM

AUV Services



AUV

Max Operating Depth	5,000 meters
Diameter	21 inches / 0.53m
Length	17.7 feet / 5.38 m
In-Air Weight	1,764 pounds / 800 kg (approximate)
Speed	2 to 4 knots
Estimated Endurance	~20 hours, @ 3 knots
Manufacturer	Bluefin Robotics Corporation

AUV Subsystems

Navigation

Inertial Navigation System	Kearfott Custom KN-6053
ADCP/Doppler Velocity Log	Teledyne RDI Workhorse Navigator 300kHz
Ring Laser Gyro	Kearfott T24 Monolithic RLG
Acoustic Positioning System	Lodestar Gyro USBL [8084]
Depth Sensor	Paroscientific 8CB7000-I
GPS	Thales/Ashtech DG14
Sound Velocity Sensor	Valeport Mini SVS
Backseat Control Architecture	Bluefin Robotics

Communications

Acoustic modem	Sonardyne AvTrak 6 [8220]
RDF Beacon	Bluefin - RDF
RF Serial Link	Freewave FGRMT
Iridium Satellite Modem	NAL 9601-D-1
Ethernet Direct	Cirexx CPU1232 Ethernet

Acoustic Payload

Multibeam Echosounder	Reson 7125 (400 kHz)
Side Scan Sonar	EdgeTech 2200-M (120 / 410 kHz)
Sub-bottom Profiler	EdgeTech DW2-16 (2-16 kHz)

Optical Payload

Camera	Prosilica GX1920
Sensor	Sony ICX674
Resolution	1936 x 1456 pixels

Geophysical Payload

Magnetometer	Honeywell HMR2300 3-axis magneto-resistive
Self Potential Sensor	Ultra Electronics (Ag-AgCl)
CTD	AML Oceanographic SmartX
Multibeam Echosounder	Reson 7125 (bathymetry & backscatter)



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