











NAVAL SYSTEMS & ANTI-SUBMARINE WARFARE CAPABILITIES



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|---|---|
|  | <p>Parker Water Purification has supplied RO Desalination Equipment for over 30 years. From potable water for drinking and showers to high-purity permeate for various shipboard applications, Parker provides the defense industry with fresh water from the sea.</p> |
|  | <p>Sparton is the world leader in the design, development, testing and production of complex maritime electronic systems, including sonobuoys in support of Anti-Submarine Warfare (ASW) and maritime capabilities supporting Undersea Warfare (USW).</p> |
|  | <p>Palomar Products offers highly reliable secure intercommunications systems and aircraft audio management systems for airborne and naval military applications to the world's armed forces.</p> |
|  | <p>L3Harris is a leading provider of advanced anti-submarine warfare sonar systems, delivering innovative technologies to enhance underwater detection and defense against submarine threats for naval forces.</p> |
|  | <p>EaglePicher Technologies supplies batteries, battery packs, and other advanced products for critical energy storage applications used in precision guided weapons, missiles, torpedoes, directed energy weapons, hypersonic systems, and unmanned underwater vehicles.</p> |
|  | <p>General Dynamics Mission Systems' maritime solutions are trusted above and below the open sea to address next-generation challenges. From secure communications to complex weapons systems, underwater vehicles to electronic warfare.</p> |
|  | <p>GeoSpectrum Technologies specializes in designing and developing advanced acoustic components and systems for underwater communication and surveillance.</p> |
|  | <p>MetOcean Telematics is a renowned company specializing in the design and provision of advanced oceanographic and meteorological solutions, offering a comprehensive range of products and services such as buoy systems, satellite communications, and data collection platforms.</p> |

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NAVAL SYSTEMS & ASW CAPABILITIES



MIL-SPEC REVERSE OSMOSIS DESALINATION SYSTEMS

For over 30 years, Parker Village Marine (VMT) has been a supplier of RO desalination equipment to the US Navy and US Coast Guard. We are proud to offer the worlds most advanced RO equipment to help improve the quality of life while underway for the men and women who serve. From potable water for drinking and showers to high-purity permeate for various shipboard applications, Parker Village Marine is your choice for fresh water from the sea.

Parker VMTs in-house design, manufacturing and testing capabilities coupled with their synergistic family of companies are unequalled in the industry and uniquely position Parker VMT to provide the toughest most reliable MIL-SPEC RO equipment.

OFFSHORE DESALINATION SW SERIES



LAND BASED DESALINATORS SW MODULAR



RACOR ACP COALESCER FILTERS FOR JET FUEL



RACOR ACM20 - PORTABLE CONTAMINATION DETECTION SYSTEM



AQUA PRO® PUMPS



RACOR AIR FILTRATION/SILENCERS



RACOR HYDROCARBON FUEL FILTER HOUSING



LOW PRESSURE COMPRESSED AIR PURIFICATION



HIGH PRESSURE COMPRESSED AIR FILTRATION



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RACOR ABSOLUTE BYPASS OIL FILTRATION



COMMERCIAL PW SERIES



IMF MEDIA FILTRATION



RMF REMINERALIZER



RACOR FUEL FILTRATION SYSTEMS



FULFLO XTL FILTER CARTRIDGES



AQUA PRO® RO MEMBRANES



LUBE OIL FILTER HOUSING MODEL# 20200-01



PW DESALINATORS



HIGH PRESSURE COMPRESSED AIR PURIFIERS



RACOR HIGH FLOW FUEL FILTRATION



HIGH FLOW DUPLEX FILTER



SMART CART



REGENERATIVE CO2 REDUCTION SYSTEM



RACOR CRANKCASE FILTRATION



FULFLO® ECOBOND™ FILTER CARTRIDGES



PW VERTICAL SERIES



HIGH PRESSURE COMPRESSED AIR PURIFICATION



MPD SERIES - MEDIUM PRESSURE DUPLEX



OFFSHORE PW-XP SERIES



FULFLO® FLO-PAC® FILTER CARTRIDGES



GUARDIAN - PORTABLE FILTRATION SYSTEM



FILTER HOUSING



RACOR AIR FILTRATION



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NAVAL SYSTEMS & ASW CAPABILITIES



Sonobuoys are integral to the detection, localization, identification, and tracking of potential hostile submarines or other targets of interest. Sonobuoys provide underwater signaling, bathythermography, deployable active acoustical signal courses ('pinger') and passive receivers of underwater signals of interest.



| PART NUMBER | DESCRIPTION | NSN |
|-------------|----------------------------|------------------|
| AN/SSQ-125 | SONOBUOY | 5845-01-590-4351 |
| AN/SSQ-101B | ADAR SONOBUOY | 5845-01-629-8534 |
| AN/SSQ-53G | DIFAR SONOBUOY (GPS) | 5845-01-663-0428 |
| AN/SSQ-62F | DICASS SONOBUOY (GPS) | 5845-01-664-7345 |
| AN/SSQ-36B | BTS SONOBUOY | 6655-01-475-9479 |
| MK 84 MOD 1 | SIGNAL UNDERWATER SONOBUOY | 1360-01-037-0588 |

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NAVAL SYSTEMS & ASW CAPABILITIES

PALOMAR

Palomar SCS solutions include switching and crew position units for airborne, shipboard, unmanned and ground applications for multi-mission platforms. Implementations include airborne secure interphones, shipboard secure voice switches (SVS), air defense ground stations and more.

Palomar solutions allow sharing of platform communication assets in simultaneous clear/secure/top secret modes among mission participants through multiple interfaces, such as T1, MIL-STD-1553 and Ethernet. Linked assets can include radios, SATCOM, datalinks (Link 11, Link 16 audio) and cryptos.

FIXED WINGS

- B-1
- P-3
- P-8
- AEW&C
- AWACS
- AC/MC/HC/KC-130
- E-3A / RE-6
- E-6A / E-6B
- CL-604 / 605
- LM-100 / 382
- C-27J

ROTARY WING

- VH-3
- VH-60 / HH-60
- VH-71
- AW-149

SHIPS

- LCC
- LHA
- LHD
- CV/CVN
- BB
- CG
- DDG

PALOMAR SECURE COMMUNICATIONS SYSTEMS (SCS)

ADVANTAGES

- Proven for over 45 years in a wide range of platforms, environments and mission types, including 250 aircraft and 9 ship classes for 30 different customers
- Fast, accurate, highly reliable secure communication
- Optimized for the information based, net-centric battlespace
- Flexible, scalable architecture for multiple crew positions to match mission requirements
- Highly configurable through software
- Support for simultaneous clear and secure operation with wide range of encryption mechanisms
- Seamless integration of communication assets including Ethernet and VoIP
- SWaP-C advantages
- Certifiable to US FAA flight standards
- Environmental performance to MIL-STD-810 and DO-160
- TEMPEST: NSTISSAM 1-92 and 2-95A
- EMI/EMC: MIL-STD-461 and 464

| Generation | Palomar SCS 1.0 | Palomar SCS 2.0 | Palomar SCS 3.0 | Palomar SCS 4.0 |
|---|-----------------|-----------------|-----------------|-----------------|
| Description | Analog Switch | Large digital | Compact Digital | Next Gen |
| Large fixed-wing aircraft | ● | ● | ● | ● |
| Medium/heavy helicopters | ● | | ● | ● |
| Light helicopters/small fixed-wing aircraft | | | ● | ● |
| UAV/ ground control | | | ● | ● |
| Shipboard | ● | | ● | ● |
| Ground Vehicle | | | | ● |

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SCS 3.0 COMPACT DIGITAL

SCS 3.0 provides users with a multilevel secure communications system coupled with an industry leading scalability that supports integration of communication systems for a wide range of platforms and missions, from compact to large secure ISR aircraft, to sizable multilevel secure, battle-ready tactical installations.

AUDIO SWITCHING UNIT

The Audio Switching Unit (ASU) provides the connections between the communications assets and each crewmember. The ASU is a modular TEMPEST secure digital unit that is integrated into the communications suite to provide the necessary control and switching of all internal and external, clear and secure voice and data lines.

PALOMAR PRODUCTS CCS-2100

COMMUNICATION MANAGEMENT SYSTEMS



MAINTENANCE STATION UNIT (MSU)



SECURE DIGITAL INTERCOMMUNICATIONS



COMMUNICATIONS CONTROL UNIT (CCU)

INTEGRATED PANEL CREW STATION UNIT (IPCSU)

CONTROL UNIT DISPLAYS (CDU)



Full ATR



Half ATR



HANDSET AUDIO PANEL

MISSION AUDIO PANEL

FLIGHT DECK AUDIO PANEL

AUDIO CONTROL UNIT (ACU)



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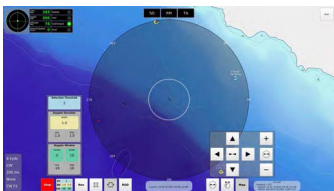
NAVAL SYSTEMS & ASW CAPABILITIES



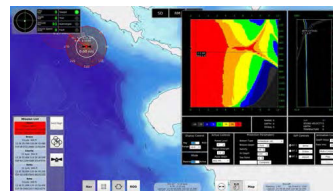
FIREFLY NEXT GENERATION ANTI-SUBMARINE WARFARE SONAR

FEATURES AND BENEFITS

- SWaP-C specific for mid-sized helicopters – A compact MOTS processor and integrated display, combined with an all-new electric reeling machine, optimizes the dipper for mid-sizes helos.
- Ideal for small helicopters – Firefly delivers optimal robust acoustic array geometry with interleaved transmit and receive elements with no moving parts and onboard energy storage, allowing for detection ranges up to 40 kiloyards.
- Proven and qualified – Firefly is based on more than 50 years of reliable, military-qualified dipping sonar systems.
- Digital interface – Line replaceable unit functional combination and extensive use of modern digital (Ethernet) I/O make for easier integration, lighter overall aircraft weight and more reliable operation.
- Optional Electric reeling machine option – Firefly does not rely on the aircraft hydraulic supply. All hoisting is done with an optional compact, high-efficiency, reliable, all-electric motor.
- Modern geo-situational user interface – Geo-situational-centric sonar operations result in superior detection and vastly reduced false alarms.
- Intuitive screen design and graphics presentation – Firefly screen design (as shown below) incorporates many years of user interface experience to allow sonar operators to become proficient in controlling and operating the Firefly system quickly.



Firefly Active Continuous Wave Mode Display shows the dip point in the center and two targets being tracked. Current Sonar parameters are shown in overlays.



Firefly Geographic Display with Overlays of the current Sound Velocity Profile and the calculated Range of the Day predicting range detection as a function of depth.

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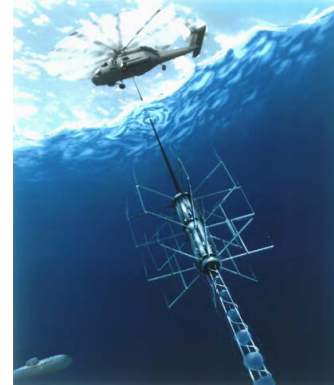
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HELICOPTER LONG-RANGE ACTIVE SONAR HIGHEST-PERFORMANCE DIPPING SONAR IN THE WORLD

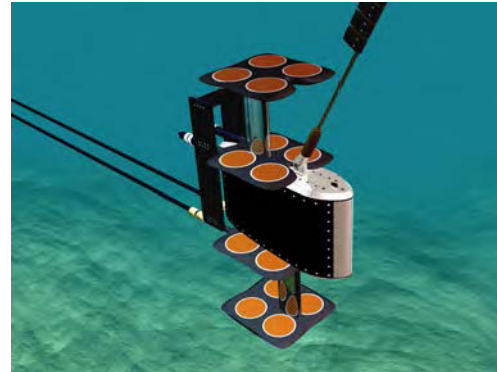
The Helicopter Long-Range Active Sonar (HELTRAS) provides operators with a significantly more capable, interoperable and a versatile weapon system that reduces total operating costs by minimizing the time needed to execute an Anti-Submarine Warfare mission.



LOW-FREQUENCY ACTIVE TOWED SONAR FULL-FEATURE, LONG-RANGE, LOW-FREQUENCY ACTIVE AND PASSIVE VARIABLE DEPTH SONAR

FEATURES

- Compact size
- Easy installation on small vessels
- Configurable
- Tactical bistatic and multistatic capability
- Highly maneuverable
- Compact Winch and Handling System
- Full 360 coverage
- Space saving transmitter tow-body configuration
- Reverberation suppression
- Sonar performance prediction



ORION FULL-FEATURE, LONG-RANGE, LOW-FREQUENCY VARIABLE DEPTH SONAR

FEATURES

- Compact and lightweight
- Easy to install and cross deck onto almost all small boats, manned or unmanned
- Optimized for operation in challenging shallow-water environments
- Uses COTS components resulting in low-cost and easy to maintain
- The system uses two parallel short receive arrays for instantaneous ambiguity resolution of the active signals and passive detection
- Uses the latest open-architecture technology making manned, remote control or automated operations efficient and effective
- Modern processing and display capabilities allow easy operation with minimal training
- Affordable initial cost and low-cost operation ensures cost-effective solution for years to come



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THE POWER OF PARTNERSHIP

NAVAL SYSTEMS & ASW CAPABILITIES



EAGLEPICHER⁺ TECHNOLOGIES

Develops and manufactures thermal batteries for a wide range of naval applications including but not limited to Torpedoes, Missiles, UUVs

1MT100 MINIATURE PISTON ACTUATOR

The 1MT100 Miniature Piston Actuator is a pyrotechnic-actuated device that delivers linear force.



1MT172 MICRO-MINIATURE PISTON ACTUATOR

The 1MT172 Micro-Miniature Piston Actuator is a pyrotechnic-actuated device that delivers linear force.



1SE601 PUNCTURING CUTTER

The 1SE601 is a pyrotechnic actuated cutter specifically designed to puncture a steel disc and release gas from a cylinder through the hollow piston.



EB-401-3 BELLOWS ACTUATOR

The EB-401-3 Bellows Actuator is a pyrotechnic-actuated device.



PA-100 PISTON ACTUATOR

The P A-100 Piston Actuator is a pyrotechnic actuated device that produces linear motion.



CAP-12261 THERMAL BATTERY



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NAVAL SYSTEMS & ASW CAPABILITIES

GENERAL DYNAMICS Mission Systems

VENOM 3U™ VPX INTEGRATED PROCESSOR FOR SONOBUOYS

The UYS-505 "VENOM 3U" is the revolutionary next-generation Acoustic Processor from General Dynamics, the world-leader in Sonobuoy Processing innovation.

VENOM 3U leverages the latest advances in signal processing technologies to maximize the detection of modern submerged threats, while minimizing Size, Weight, Power and Cooling (SWAP-C) for airborne installation. The fixed-wing variant processes up to 32 sonobuoys, while the rotary-wing version can process up to 16 sonobuoys in addition to its embedded control of dipping sonar.

General Dynamics' latest Sonobuoy Processing software – including Passive and Active Energy Maps and powerful tracking algorithms – is designed to enhance tactical awareness while significantly reducing operator workload. A new feature is "CUDA" (Computerized Underwater Detection Assistant), an "APP" designed to automatically assess the tactical picture in noisy littoral regions without operator intervention.

VENOM 3U builds upon General Dynamics' years of sonobuoy processing experience to provide enhanced detection tools and the world's most advanced sonobuoy processing system.

FEATURES:

- Processing of any passive or active sonobuoy in fleet use
- Control of Command Function Select (CFS) Sonobuoys
- Intuitive Operator Machine Interface (OMI)
- Concurrent processing of over 100,000 spectral cells
- Specialized tools for Diesel Submarine detection
- Optimized detection of transient target sources
- Wideband coverage for active intercept
- Scalable geographic display with tactical overlays
- Embedded training module
- STANAG 4283-compliant recording



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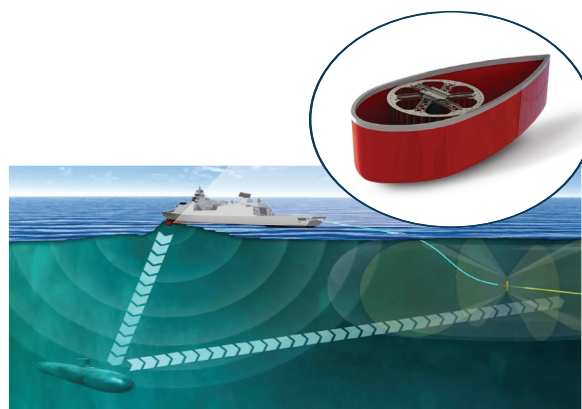
NAVAL SYSTEMS & ASW CAPABILITIES



GeoSpectrum Technologies Inc
Customizing Detection

HMS HULL-MOUNTED SONAR

The M670 HMS provides surface ships with concurrent, high-performance active and passive sonar capability for detection, classification, tracking and localization of underwater targets. It allows detection of submarines, torpedoes and mid-water mines and obstacles. Its compact form enables integration in a wide variety of new or upgraded naval vessels. Cost-effectiveness makes the M670 HMS a wise and affordable choice for navies seeking a high-performance anti-submarine warfare (ASW) capability for open-sea as well as littoral environments. Sonar processing is performed by GeoSpectrum's sensor-agnostic RecView system, providing flexible wave forms and optimal detection performance and enabling seamless integration with additional ASW systems such as towed array sonar and sonobuoy processor.



TRAPS TOWED REELABLE ACTIVE PASSIVE SONAR

TRAPS provides surface ships such as OPVs, corvettes, ships of opportunity, and USVs with concurrent, high-performance active and passive sonar capability for detection, classification, tracking and localization of underwater targets. Its compact form enables integration in a wide variety of new or upgraded naval vessels of all sizes and provides a variety of installation options, including containerization on multi-mission vessels and standard deck-mounting.

Cost-effectiveness makes TRAPS a wise, affordable choice for navies seeking high-performance anti-submarine warfare (ASW) capability for open-sea and littoral environments. **All-in-One Design TRAPS** incorporates a single tow with a Vertical Projector Array (VPA); no handling system required to deploy, retrieve, and stow. This reduces footprint, weight, and price. **Multi-Mission Capability TRAPS** is ideal for littoral operations and very useful in deep water as part of a multistatic system.



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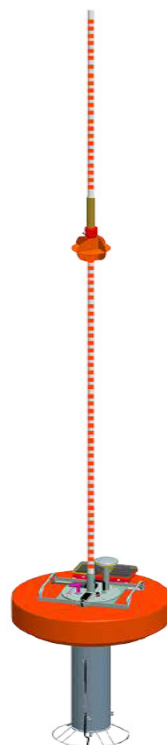
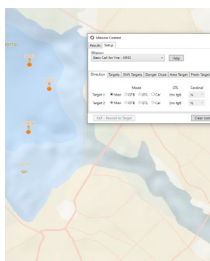
NAVAL SYSTEMS & ASW CAPABILITIES



MASS MARITIME ACOUSTIC SCORING & SIMULATION SYSTEM

The Maritime Acoustic Scoring & Simulation System (MASS) is a waterborne, portable, ship-deployable/recoverable range and training tool. MASS scores and analyzes live-fire surface gunnery exercises, air-to-ground weapons exercises, and other test and evaluation events. MASS is a low cost, deployable & recoverable system that provides real-time, seamless, live-fire training for shipboard NSFS & NGSS teams.

The MASS system may be deployed and retrieved rapidly at anytime in the open and high seas. The system also allows the flexibility to use either High Explosive (HE) and/or Blind Loaded & Plugged (BL&P) shells, it has been calibrated for small shell sizes (57mm, 76mm) up to 3" and including the 5" (127mm). The MASS range may be positioned anywhere and utilized for long-range/over the horizon firing of projectiles using the Iridium Satellite network.



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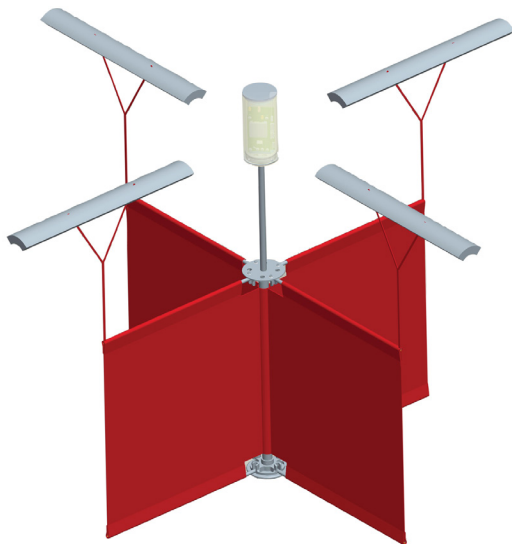
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ISLDMB
IRIDIUM SELF-LOCATING DATUM MARKER BUOY

The MetOcean Telematics Iridium Self-locating Datum Marker Buoy (iSLDMB) is an innovative, rugged, and compact NATO A-size Search and Rescue Buoy. The iSLDMB was designed and tested to meet the stringent performance requirements of coastguards for Search and Rescue (SAR) operations in the open ocean. Deployed to ground-truth open ocean current prediction and patterns, inevitably reducing search and rescue time to save lives.



PABLO
ACOUSTIC MONITORING

The PABLO Iridium® profiling acoustic float was designed and tested to measure environmental acoustic ambient noise in order to detect the presence of marine mammals and to assess the impact of noise pollution. In addition, it can be used to detect subsurface assets and for military applications.

PABLO gathers acoustic profiles for the purpose of analyzing sound propagation in the top 1,000m of the ocean. Configured to collect data on a daily basis, PABLO has a long mission life, operating for close to a year while performing 300 profiles called acoustic window cycles.



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