

Capabilities Statement

AMPEX

Ampex Data Systems is a Silicon Valley based small business that specializes in systems for acquiring, exploiting and protecting data with cost-effective solutions for data recording, on-board storage, cybersecurity, data management, machine learning and other associated technologies.

Ampex designs and manufactures high-performance, high-capacity, digital storage products for demanding airborne, maritime, terrestrial or space based environments. These products are used during missions to encode, store, protect and manage critical, sensor-based data from aircraft, vehicles, ships and satellites in flight test or mission applications.

Ampex is focused on providing rugged, Deep Learning Enabled, Small Form Factor processing/storage systems and leads the market for reliable and secure high-speed on-board storage for military and industrial platforms.

Ampex, a wholly owned subsidiary of Delta Information Systems, is headquartered in Hayward, California and has several facilities nationally and internationally.

Core Competencies

- Mission data acquisition systems
- Flight data recording
- Video, radar, EW recording
- NAS, file servers, gateways
- On-board cybersecurity to the sensor level
- On-board machine learning
- Embedded computing / 3rd party software platform
- Encryption, key management and secure erase
- Terrestrial to low Earth orbit environmental hardening

Differentiators

Cutting-edge, California based, small business with design, engineering and manufacturing capabilities

- Proven data recording supplier to the DoD, primes and integrators on numerous mission critical, airborne, marine, terrestrial and space programs.
- High speed recording to 40Gb/s and 100+TB storage for ISR, EW, radar, video, mission and other data.
- The BLUE product line: the first commercial sensor level cybersecurity and deep learning solution.
- Numerous senior level software, design, and mechanical engineers on staff.
- Key personnel holding all levels of security clearances from secret through TS/SCI.
- DSS rated facility for holding classified materials and repair.

U.S. Owned and Operated
AS9100D / ISO 9001:2015
Certified small business.

NAICS Codes

334111	511210
334112	517030
334511	541330
334513	541712
334515	

DUNS Code - 78-182-6896

CAGE Code - 0PN68

Markets Served

- UAS, UGS, UUV
- Manned Airborne Systems
- Ground Control Stations
- Ground Vehicle Situational Awareness
- Marine Systems
- Near Space Systems
- Persistent Surveillance Systems
- Test and Evaluation
- Range Telemetry Tracking
- Simulation

Awards & Recognition

Historically, Ampex has won 12 Emmies, an Oscar, and a Grammy for excellence in sound and video recording. Since its founding, Ampex has invented countless data recording products and has been awarded numerous patents in the field.

Ampex is also a highly rated supplier to aerospace companies.

Point of Contact

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Capabilities Statement



Past Performance

- Eglin AFB
- Edwards AFB
- Nellis AFB
- NAS Patuxent River
- NAWC China Lake
- NAWC Lakehurst
- NAS Point Mugu
- Redstone Arsenal
- Yuma Proving Ground
- NASA Armstrong

Various Platforms: F-15, F-16, F/A-18, EA-18G, E-2C, E-2D, MC-12W, AH-64, HX-21, H-60, Boeing 787, 777, 747-8, numerous UAS programs, numerous special purpose programs, International Space Station, etc.

Product Line

TuffServ® Network File Server Series

The TuffServ family, including the TS 220, TS 282, TS 480, TS 540, TS 640, and are the fastest ruggedized Network File Servers on the market, with up to 40GB/s record and 100+TB removable storage.

TuffCORD™ Network File Server and Mission Recorder

The SWaP optimized, ruggedized and inexpensive TuffCORD has storage to 2+TB, performance in excess of 200Mb/s, and is designed from the ground up to meet Information Assurance requirements.

MiniR 700®

The miniaturized, ruggedized, and modular miniR is a Solid State IRIG106 Chapter 10, flight test recorder that records, stores, and outputs large numbers of various digital and analog inputs.

BLUE

BLUE IQ is a rugged, machine learning system built on GPU based Neural Networks that apply Content Analytics in real-time to manage data, train networks, and enhance security.

BLUE Sentry / BLUE Jäger is a rugged cyber defense solution to the sensor level. BLUE Sentry monitors for threats or anomalies while BLUE Jäger, supplemented by BLUE IQ, mitigates the threat.

BLUE Lightning is an industrial control system appliance that detects malware intrusions at the lowest digital level. It is the optimal device on the market to detect spoofing.

Key Customers

- AAI - RQ-7 Shadow
- Australian Air Force, Navy
- Brazilian Air Force
- Boeing Commercial
- Boeing Defense
- Canadian DnD - CF-18, CH-146, C-295
- Chilean Navy
- Egyptian Air Force
- German Air Force - P3C
- Indian Air Force, Navy
- International Tactical PODs (Turkey, Poland, Greece, Saudi Arabia, UAE, Morocco, Pakistan, etc.)
- Italian Army
- Japanese MoD - P1
- JAXA
- L3 - MC-12 Liberty
- Mexican Air Force, Navy
- NASA
- Northrup Grumman Corp. E-2-D. MQ-8CFire Scout
- US Air Force / General Atomics UAS
- US Air Force Ground Installations
- US Air Force / SAIC - Blue Devil
- US DOJ Drug Enforcement Agency
- USG Tactical PODs
- US Navy - E-2C
- US Navy - EW POD
- US Navy / NGC - UAS
- US Navy / NGC - MQ-8C FireScout

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Ampex is a US Owned and Operated; AS9100/ISO 9001 certified small business.