Amherst Systems
F-35 Mission Experienced

- Our sales have doubled over the last three years based on growth in core and new business areas
- We don’t just build synthesizers, we build fully integrated stimulator systems that create the most operationally representative EW environment available
- We provide efficient designs to ensure the highest performance at the lowest cost
- Designated product managers ensure our product development and performance is customer driven

Synchronization & Control Systems (SCS)
Pulseman CEESIM
Combat Electromagnetic Environment Simulator (CEESIM)
Joint Threat Emitter (JTE)
Signal Measurement Systems (SMS)
Real Time IR/EO Scene Simulator (RISS)

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**Advanced Capability**
Amherst Systems develops products to meet the demanding F-35 requirements at the right cost. The Combat Electromagnetic Environment Simulator (CEESIM) has evolved to meet the increasingly demanding operational threat environment.

- Unique architecture provides the highest performing synthesizer with cost effective DF modulation legs yielding the highest system performance at the lowest cost.
- Phase-coherent RF source
- Amplitude, phase and time Angle of Arrival (AoA)
- Operational frequency range
- The best broadband noise and spurious performance in the industry
- Source/sector is the lowest cost/highest reliability source per sector to meet F-35's solution

Our fully integrated suite of stimulator products provides the most realistic operationally representative environment to accurately drive the system under test. We integrate the CEESIM with our Signal Measurement System (SMS), Synchronizer Controller System (SCS), navigation data, extensive scenario capability and a dynamic user interface.

**F-35 Program Success**
Amherst Systems has been key to F-35 initial capabilities and is pivotal to delivering advanced capabilities. We continue to play a critical role in the development of F-35 hardware, software and mission data. From testing mission systems software to testing the electronic warfare (EW) sensor systems, we have been and will continue to be integral in development and will continue to support F-35 in future Block upgrades. Our systems tested initial F-35 US Mission Data Files (MDF) for the Marine Corps, Air Force, and Operational Test programs and will also be used to test MDFs by F-35 international partners. In addition it will be used to build and test MDFs for all F-35 Foreign Military Sales customers. Amherst Systems integration of the EW and radar stimulation environments is key to ensuring an operationally representative environment across all laboratories.

We provide the pulse density necessary to test in a realistic F-35 threat environment.

**Supplier of Choice**
Amherst Systems is the current and future provider of choice for operationally representative RF stimulator environments.

Amherst Systems develops products in over 300 locations worldwide. We support 24 countries across the globe, including all services in the United States.

We are developing the next generation RF stimulator capability for the USG and this technology advancement will be used in all CEESIMs going forward. We are also the EW stimulator provider of choice for advanced development programs.

We are the only proven provider of EW stimulators for 5th generation weapon system development and operation. Our integrated system provides:

- The best broadband noise and spurious performance in the industry
- Use of navigation data in scenarios
- Improved portability of threat database files between CEESIMs
- Improved calibration performance that ensures accuracy & reduced time
- Proven and validated emitter database with a broad threat range

Amherst Systems has active products in over 300 locations worldwide.

**Lifecycle Efficiency**
Amherst Systems enables an effective lifecycle enterprise operation across multiple systems, saving time and money. We are actively evolving our modular and scalable architecture to enable reduced design timelines and costs. This approach will allow customers to add capability as they need it to meet their lifecycle requirements without wasted investment.

Amherst Systems provides a range of support options to meet customer needs including enterprise support of multiple systems optimizing personnel, spares and downtime across the enterprise.

CEESIM architecture also allows data portability across systems, lowering overall operational costs through reduced model and scenario development, shared training, and lab sharing during upgrades, refreshes and surges.

**Future of Amherst Systems**
We continue to evolve our products with one of the highest IR&D investment levels in the industry. Amherst Systems is committed to maintaining its customer-focused technical superiority through an industry leading IR&D program. This program is closely coupled to evolving customer requirements. Over the past 5 years, this has lead to deployment of the Advanced Pulse Generation (APG) capability and our selection as the US Government’s supplier of choice for their Advanced RF generation capability for EW simulation.

Future goals:

- Continued life cycle cost reduction
- SCS design tailored to MDF test labs
- Seamless data portability
- Architecture optimized for configuration flexibility, quick turn delivery, and lower cost
- Direct EWIR database Import
- Capability to support advanced threat requirements (ie: cognitive, multifunction, reactive/dynamic threats)

We provide the value of performance with discriminating technology at the lowest cost to the warfighter community.