

News Release

Intellisense Systems Awarded USAF STRATFI Contract to Finalize Transition of the IWOS®

Funding from the Strategic Funding Increase (STRATFI) will further ruggedize and enhance the revolutionary Integrated Weather Observation System (IWOS®), which was recently chosen as the next-generation tactical weather station for the United States Air Force.

May 6, 2024 – Torrance, CA – Intellisense Systems Inc., a leading provider of advanced environmental-sensing solutions, was awarded an AFWERX Strategic and Tactical Funding Increase (STRATFI/TACFI) contract to further improve the Integrated Weather Observation System ([IWOS®](#)), a smaller, man-portable, tactical meteorological observing system (TMOS) that addresses one of the most pressing weather challenges in the Department of the Air Force. This Small Business Innovation Research (SBIR) sequential Phase II contract will provide funding to further ruggedize and enhance the IWOS, which was recently selected as the primary man-portable weather station used by the USAF in gathering essential meteorological data from remote airfields in austere terrain. The IWOS has already been deployed in remote and unmanned landing zones around the world and should fully replace all TMOS weather stations by 2027.

The Air Force Research Laboratory and AFWERX have partnered to streamline the SBIR and Small Business Technology Transfer (STTR) process by accelerating the small business experience through faster proposal to award timelines, changing the pool of potential applicants by expanding opportunities to small business and eliminating bureaucratic overhead by continually implementing process improvement changes in contract execution.

The IWOS consolidates over a dozen key weather parameter sensors—including temperature, pressure, humidity, wind speed/direction, and cloud layer height to 25,000 ft.—into a single, ruggedized, and innovative interlocking cylindrical design. The design enables end users to customize the system and monitor the exact weather parameters they need. It weighs just 25 lbs., fits inside a single case, and takes only a few minutes for one service member to install. By contrast, the previous remote weather station consisted of multiple components, weighed approximately 100 lbs., and required more time and at least 2 to 3 service members to set up. This solution will greatly improve the efficiency of USAF operations and the safety of Air Force service members in hostile terrain where meteorological data is limited and needed.

“The IWOS will soon be the most widely used tactical weather station for the Air Force,” said Christian Veeris, Vice-President of Corporate Business Development at Intellisense Systems. “It supplies warfighters with a ruggedized, high-fidelity weather sensing solution in an innovative, small form-factor package. It provides our servicemen and women with an agile, light, and highly accurate solution in dangerous terrain. This contract award is really a credit to our team who have revolutionized tactical weather stations with the IWOS.”

About Intellisense Systems, Inc.

[Intellisense Systems](#), Inc. is a leading provider of advanced sensing and display solutions supporting a data continuum from acquisition to visualization. Our hardware and software solutions turn raw data into useful information for improved decision-making and process automation. Our services include research and development, design, systems integration, prototyping, production, testing, field support, and training. Headquartered in the South Bay area of Los Angeles, the company occupies 80,000 square feet within our Torrance campus. Our ISO 9001:2015/AS9100D- and AS9110-certified manufacturing facilities include electronics fabrication, unit qualification testing, and volume production with full quality assurance.

Media Contact

Email: media@intellisenseinc.com

Phone: (310) 320-1827

About AFRL

The Air Force Research Laboratory is the primary scientific research and development center for the Department of the Air Force. AFRL plays an integral role in leading the discovery, development, and integration of affordable warfighting technologies for our air, space, and cyberspace force. With a workforce of more than 12,500 across nine technology areas and 40 other operations across the globe, AFRL provides a diverse portfolio of science and technology ranging from fundamental to advanced research and technology development. For more information, visit afresearchlab.com.

About AFWERX

As the innovation arm of the DAF and a directorate within the Air Force Research Laboratory, AFWERX brings cutting-edge American ingenuity from small businesses and start-ups to address the most pressing challenges of the DAF. AFWERX employs approximately 370 military, civilian and contractor personnel at five hubs and sites executing an annual \$1.4 billion budget. Since 2019, AFWERX has executed 6,028 new contracts worth more than \$4 billion to strengthen the U.S. defense industrial base and drive faster technology transition to operational capability. For more information, visit www.afwerx.com.