

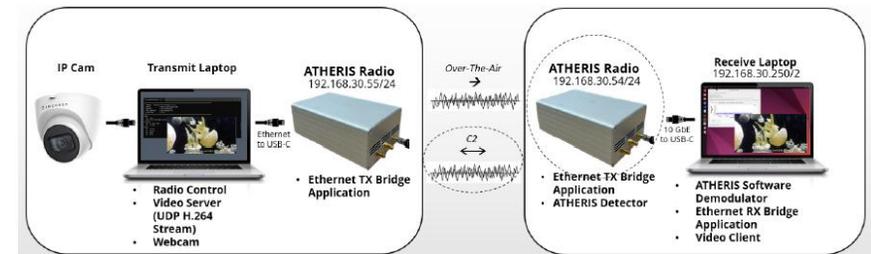
# CPO 61 SBIR 22.1 Phase II Spectric Labs

## Project Summary

SOFWERX, in collaboration with the United States Special Operations Command (USSOCOM), Special Operations Forces Acquisition, Technology, and Logistics (SOF AT&L), Small Business Innovation Research (SBIR) program office, awarded a SBIR Phase II contract to Spectric Labs to develop, deliver, and demonstrate a prototype capability that maximized Low Probability of Intercept/Low Probability of Detect (LPI/LPD) features while leveraging advancements in high-speed commercial communications.

## Project Timeline

Project Kickoff:	13 September 2023
Critical Design Review:	13 February 2024
Delivery of Final Report:	10 December 2024
Delivery of Prototypes:	01 January 2025



## Resources Consumed

CPO 61: \$1,000,000  
CPO 71: \$835,703  
**Total Cost: \$1,835,703**



## Project Results

Spectric Labs successfully partnered with Motorola Solutions to design, develop, and deliver four (4) prototype communications systems. The team optimized the Atheris waveform developed during a Phase I and implemented it on the existing Motorola COTTONMOUTH radio platform—a TRL-7, 200 MHz bandwidth, low-SWaP radio previously delivered to the U.S. Government. From November 12–14, 2024, in Schaumburg, IL, the partners successfully demonstrated the Atheris Phase II prototype system during over-the-air field testing in a realistic RF environment at a separation distance of 500 meters and a data rate of 13.65 Mbps. Spectric Labs delivered the final report to the Defense Technical Information Center (DTIC).