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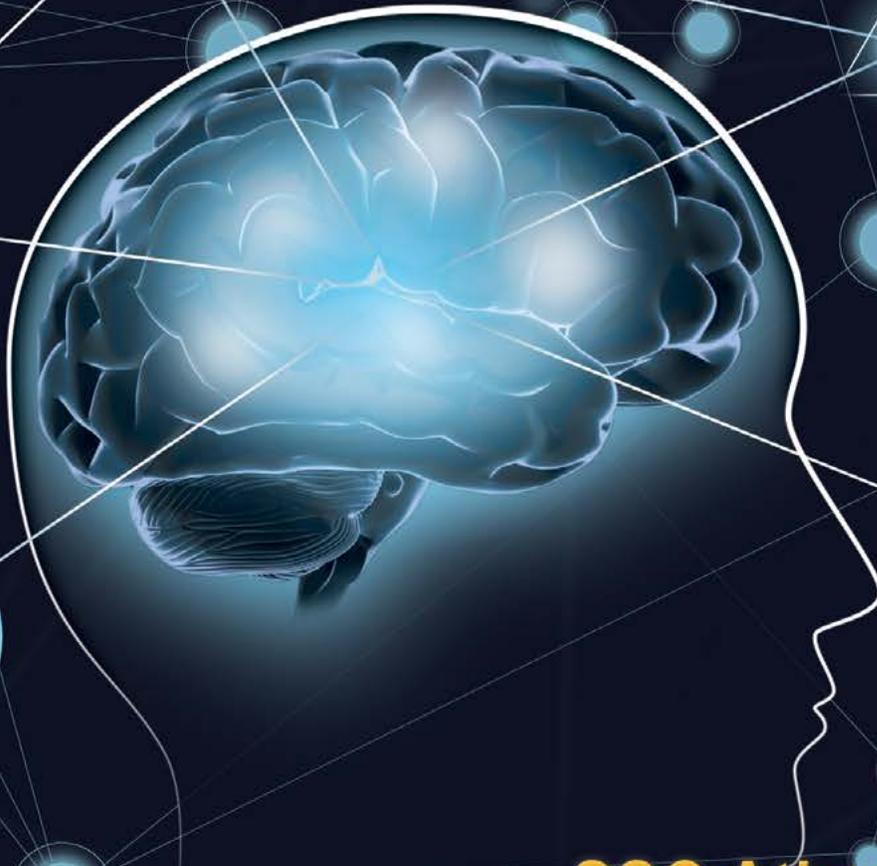
SPAWAR



Systems Center
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PEOPLE

INFORMATION



IDEAS

**SSC Atlantic
innovates
for the warfighter**

Wireless 3D facial recognition binoculars

Helping warfighters identify adversaries

By Deborah Gonzales

Navy and Federal Support Portfolio

The Solutions in Identity Management (SIM) IPT has developed a Wireless 3D Facial Recognition Binoculars System (FRBS) that gives warfighters the power to conduct long-range collection and identification of subjects and potential threats in degraded environments.

The system provides the ability to verify a person's identity from as far as 700 feet — nearly two times the length of a football field. Most existing facial recognition systems work at a distance of only a yard or two, said SIM IPT Lead Mike Besco.

The binoculars collect visual data that can be fed to a database and compared to existing images of potential adversaries on the U.S. Central Command (USCENTCOM) Watch List. The system uses innovative electro optics facial recognition software and advanced 3D software algorithms that integrate surveillance optics with biometrics matching to the USCENTCOM Watch List database.

A Field Service Representative (FSR) with the SIM IPT deployed to Bahrain early this year to support continued demonstrations and assessments of the prototype Wireless 3D FRBS. The FSR worked with USCENTCOM personnel to collect and evaluate data from the U.S. Marine Corps Fleet Anti-terrorism Security Team (FAST) operational assessment begun in September 2015. The team had forward deployed the system to the USCENTCOM Area of Responsibility (AOR) in Bahrain for demonstration and operational assessment and also trained 11 FAST members.

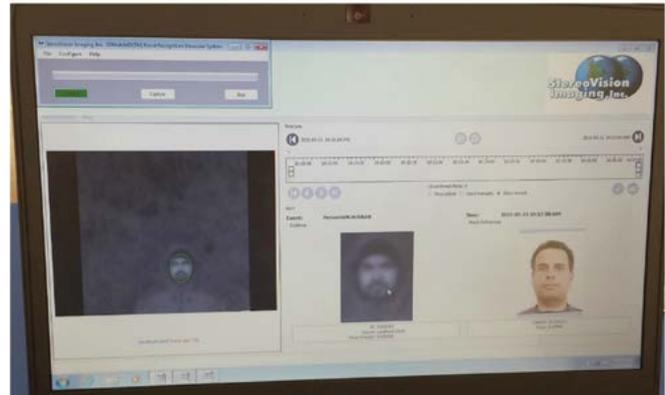
The purpose of the FAST assessment is to provide warfighter input on operational effectiveness and recommended product enhancements.

The FSR also worked with USCENTCOM personnel to demonstrate the FRBS capability to the 5th Marine Expeditionary Brigade; Naval Support Activity (NSA) Bahrain Force Protection; the Naval Criminal Investigative Service (NCIS) Middle East Field Office, Bahrain; FAST Central Command (FASTCENT); Combined Joint Task Force - Operation Inherent Resolve in Kuwait; and U.S. Army Central (ARCENT) forward Headquarters in Kuwait.

The system is a shared SPAWAR/industry hardware solution, with SPAWAR owning the data rights and software, Besco said. The project is sponsored by the Office of the Secretary of Defense, Rapid Reaction Technology Office.

The SIM team first demonstrated the system at the inaugural DoD Lab Day in May last year, which highlighted military achievements in science and research.

The SIM IPT is part of the Special Reconnaissance, Surveillance and Exploitation Sub-Portfolio.



FRBS gives warfighters the power to conduct long-range collection and identification of subjects and potential threats in degraded environments. Below, Michael Richmond demonstrates the binoculars' capability.

