LEVERAGING CUBIC’S WORLD-CLASS TRAINING AND COMMUNICATIONS FOR SPECIAL OPERATIONS FORCES

Cubic Defense Applications, the world’s leading provider of air and ground combat training systems, offers innovative technologies that address the dynamically evolving requirements of Special Operations Forces around the world. Our solutions build on decades of experience in defense systems integration and training, as well as our expertise as a provider of specialized communications and electronic systems.

Cubic provides military training systems and support services to U.S. and allied forces in more than 50 nations. Our defense segments are dedicated to improving combat readiness of our warriors and protecting national security. We provide realistic live and ground combat training systems that replicate the “fog of war,” virtual and immersive training systems that enhance marksmanship and collective training skills, and communications and electronics products that ensure complete situational awareness, including tactical ISR data links and combat search-and-rescue avionics. They also offer cyber security solutions that ensure secure access to data and services in a multi-level domain environment.

Cubic also offers cutting edge, game-based training courseware. The first of its kind, Cubic incorporates an immersive synthetic environment with “on-the-job” training aspects of a mentor. Cubic Advanced Learning Solutions uses immersive, 3D virtual environments to teach adults in settings and situations virtually identical to the ones in which they will be performing tasks. CALS’ tailored learning solutions have the capability to improve retention rates up to 90 percent.

VIRTUAL SMALL ARMS TRAINING

Cubic’s virtual small arms training simulators, EST 3000 and PRISM, provide the most advanced and realistic training available for Special Operations Forces offering realistic, hands on training to foreign partners. Our advanced systems can be configured in a wide variety of designs to support training scenarios from individual basic rifle marksmanship skills to platoon level collective training settings.

ADVANCED LEARNING SOLUTIONS

Cubic Advanced Learning Solutions (CALS) is an effective and compelling game-based training courseware that uses immersive, high resolution synthetic 3D environments to teach adults in settings and situations similar to those in which they actually perform. CALS offers a cost-effective means for large-scale training, providing multi-user interaction in a simulated learning environment. These training solutions can dramatically improve learning, retention and performance. Cubic fuse technologies and processes to improve all facets of training entertain the trainee and reduce total costs compared to traditional training methods.

LASER ENGAGEMENT SIMULATION SYSTEMS

Cubic’s Special Operations Forces - Weapon Engagement Simulation System (SOF-WESS) incorporates the latest wireless technologies for live force-on-force exercises while leveraging our field-proven technologies gained from fielding over 220,000 Multiple Integrated Laser Engagement System (MILES) products worldwide. Designed with independent, small, lightweight components, the SOF-WESS manpack system features an industry-standard wireless link that replaces traditional harnesses and cables. SOF-WESS fully integrates with Instrumentation Systems, both fixed CTC sites and mobile / homestation training systems, and is interoperable with urban operations training / MOUT systems.

ISR TACTICAL DATA LINKS

Cubic’s Multiband Miniature Transceiver (MMT) is a small, lightweight, integrated digital data link providing voice, data, and imagery transport for airborne and ground applications on USMC, Navy, Air Force and international platforms. It is capable of receiving and transmitting video and telemetry data across five frequency bands in a low-power package. Data security is ensured by removable Type 1 or Advanced Encryption Standard (AES), and can operate in the encryption bypass mode for interoperability with unencrypted terminals. The MMT can receive and transmit standard, bandwidth-efficient CDL compliant waveforms, legacy 466ER, Tactical, and soon the Vortex Native Waveform. The MMT was specifically designed to be interoperable with intelligence, surveillance, and reconnaissance (ISR) systems to provide real-time situational awareness to the tactical edge.

CYBER SOLUTIONS

Cubic Cyber Solutions, Inc. (CCS) provides specialized cyber security products and solutions including architecture design, cross-domain product development and deployment, and secure enterprise network architecture and engineering. Our Cross-Domain solutions are certified and accredited to provide secure data transfer in any multi-level domain environment.

INTEGRATED TACTICAL ISR RADIO

Cubic has teamed w/ Harris Corporation to provide an integrated voice, video, and data solution in a single handheld and man-packed tactical radio that is network enabled to distribute video to disadvantaged users over a Mobile Ad-hoc Networking (MANET) architecture. This game changing technology integrates the functionality of a tactical ISR receiver and a handheld tactical voice and data radio into one device. The solution allows the operator to eliminate the need to carry an ISR receiver, thereby lightening his basic load. It supports the new BE-CDL ISR waveform with a path to NSA Type-1 certification, to include the legacy 466ER, Tactical, and Vortex Native Waveform (VNW) CDL waveforms. The video receiver also supports four frequency bands with the radio supporting GPS and the wideband, narrowband, ANW2, and SRW radio waveforms, making it interoperable with almost any radio on the battlefield. The Cubic nano-Multiband Receiver (nMR) module enables ISD distribution through the Harris suite of tactical radios for improved situational awareness to the tactical edge.