

KITS

AIR COMBAT MANEUVER INSTRUMENTATION (ACMI) SYSTEM

Enhanced, Interoperable Joint Training for U.S. and Allied Forces.

Cubic's KITS ACMI System provides U.S. and allied aircrew with unparalleled live air combat training. The KITS system currently supports: daily squadron-level training operations, large-force joint training and multinational coalition training exercises. The KITS system has been delivered to more than 20 air combat training ranges worldwide.

KITS incorporates advanced GPS technology, allowing pilots to train anywhere at any time over land and sea. The system's rangeless capabilities enable training missions to be conducted without reliance on any fixed range infrastructure.

The KITS system is comprised of an airborne instrumentation pod used to record and transmit aircraft Time-Space-Position-Information (TSPI), and a transportable ground subsystem used to display and debrief training missions. The system's advanced features include the ability to accurately simulate air-to-air, air-to-ground and ground-to-air weapons employment. The KITS system also includes a real-time



monitoring capability enabling Range Training Officers (RTOs) to observe and analyze training missions in real-time from the ground. The ground subsystem utilizes Cubic's Individual Combat Aircrew Display System (ICADS™). ICADS™ allows aircrew to view computer-generated profiles of all participating aircraft, including flight dynamics, weapons events and engagement outcomes.

The KITS system is used worldwide to support annual and semi-annual multinational, joint air combat training exercises. KITS is currently used during:



Maple Flag (Canada)



Cobra Gold (Thailand)



Pitch Black (Australia)



Cope Tiger (Thailand)



Talisman Sabre (Australia)



Cope North (Guam)



Max Thunder (South Korea)



Commando Sling (Singapore)



KEY COMPONENTS

The key components of the KITS system are the instrumentation pods and the ground-based display and debriefing computers.

The instrumentation pods have the same form factor on an AIM-9 missile and are loaded onto any compatible launcher rail. The instrumentation pods collect and process in-flight data and transmit this information to the ground subsystem. The flight data is used by the pod to process weapons simulations in real-time. Based on the weapon simulations, pilots hear “kill/miss” in real-time. Packaging options include an external pod and a rack-mounted configuration to support a variety of different aircraft platforms

The ground based display and debriefing system provides a real-time air picture of all participating aircraft. Pod information is also merged post mission for debrief and analysis.

The display and debriefing subsystem is available in both transportable rackmount cases and portable laptops. The system easily moves to where the training is needed.

MAJOR FEATURES

- Supports 72 high-activity aircrafts
- Incorporates 125 nautical miles air-to-air and air-to-ground data link
- Supports air-to-air, air-to-ground and surface-to-air weapon simulations
- Real time weapons simulations with Real-Time Kill Notification (RTKN) to pilots
- No Drop Weapons Scoring (NDWS), which includes precision-guided weapons
- Electronic combat warfare training capabilities
- Fixed and Transportable ground subsystems
- Compatibility with all U.S. and most coalition fighter and attack aircraft platforms
- Ability to integrate with other air and ground training systems
- Rack-mounted subsystem for a variety of fixed and rotary wing aircraft
- Fixed ground subsystem

