

# Transportable Range Operations Center



The mobile range capability of the Transportable Range Operations Center (TROC) enables ATR to provide remote range operations in support of testing and training at locations across the country for use by Unmanned Aerial Systems (UAS) and other RDT&E and training customers.

The TROC offers a fully-integrated, mobile platform to provide mission command and control, safety oversight and surveillance, and data acquisition. Configured as typical fixed-site, open-air range operations center, the TROC operations and range control center houses range instrumentation systems and equipment that enable it to operate autonomously or while connected to the Atlantic Test Ranges (ATR) through the Advanced Range Operations Network (ARON) or other RDT&E networks.

## MOBILE RANGE CONTROL

Housed in a 53-foot trailer, the TROC can operate from networked remote instrumentation sites within the ATR Patuxent River Complex, or be taken to remote sites and operated in a stand-alone mode. Depending on the location and operational requirements, the TROC can import data from the ATR fixed-instrumentation infrastructure or function with transportable range instrumentation and operated in a remote, autonomous configuration. The system was developed to improve range support to the tactical UAS operations conducted at the Webster Field Annex; however this capability can be used to support a wide variety of customer requirements that need this type of flexibility.



TROC interior

## TROC FEATURES

- Segregated equipment area with 19-inch equipment racks
- 10 fully integrated workstations each with operator selectable mission-specific software applications
- Video switch
- Communications equipment (LAN, radio, voice)
- 42-foot telescoping mast
- Secure storage container

## FOR MORE INFORMATION

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## MISSION-SPECIFIC APPLICATIONS

The TROC's combination of instrumentation and mission-specific processing and display systems allow for real-time mission command and control, safety and surveillance and data acquisition during a wide variety of operations in support of test and training events:



System operators inside the TROC

- Situational awareness/range safety
  - Range surveillance (SureTrak)
  - Flight termination (with transportable Flight Termination System – FTS)
  - Radio frequency (RF) monitoring and de-confliction
- Command and control
  - Range Computation & Control System (RCCS III)
- Post-mission debrief and After Action Reporting (AAR)
  - Personal Computer Debriefing System (PCDS)
- Time, Space, Position Information (TSPI) data acquisition
  - Command and control
  - Remote instrumentation slaving
- Real-time Telemetry Processing System (RTPS)
- Photogrammetrics (documentation and video scoring)
- Electronic warfare
  - Simulation and stimulation
  - Infrared signature measurements

