



## US Air Force orders more MJAT MQ-9 Reaper simulators with MetaVR image generators

*MetaVR's Virtual Reality Scene Generator (VRSG) simulates the MQ-9 Reaper camera views for training*

**Brookline, 27 June, 2019** - MetaVR announces that the US Army Joint Technology Center and Systems Integration Lab (JSIL) has purchased an additional 86 MetaVR Virtual Reality Scene Generator (VRSG) licenses to provide visuals for the continued rollout of US Air Force MQ-9 remotely piloted aircraft (RPA) simulators.

The VRSG software is used in the Air Force's MALET-JSIL Aircrew Trainer (MJAT) – a plug-and-play training capability that converts an operational MQ-9 ground control station (GCS) into a training simulator.

Within the MJAT, VRSG is part of the Air Force Synthetic Environment for Reconnaissance and Surveillance (AFSERS) software to stimulate the tactical vehicle control software to emulate GCS functions: air vehicle control, payload control, weapons control, communications, video data transmission and mission planning. VRSG simulates the RPA camera payload by streaming real-time HD-quality H.264 video with KLV metadata.

With its force-multiplying ability to enable RPA operators to train on actual aircraft GCS hardware, using real ISR systems and interacting with networked Joint Terminal Attack Controller (JTAC) simulators, the embedded MJAT provides the US Air Force a flexible and cost-effective method to 'train as it fights.' The MJAT also provides RPA operators the ability to conduct simulation training as part of their qualification and continuation training.

VRSG shares a common baseline with Battlespace Simulations' Modern Air Combat Environment (MACE), which is used by all MJAT simulators for scenario creation and fully/semi-automated enemy force generation. This coupling enhances interoperability and correlation between MJAT and the large number of fielded VRSG-MACE-based JTAC simulators. This interoperability is critical in the simulated training environment, in order to emulate the joint force interaction and collaboration between Reaper sensor operators and JTACs during real-world missions.

"MJAT allows the US Air Force to maximize the use of its MQ-9 Reaper GCS at all times, to direct existing resource into deployed operations or training capacity in line with shifting demand," Garth Smith, President of MetaVR commented. "The MQ-9 Reaper joins the growing list of US military UAV/RPA training platforms we support, including the Grey Eagle, Shadow, and Aerosonde."

These new licenses will extend the roll-out of the MJAT simulator across US Air Force MQ-9 Reaper GCS sites. To date 56 MJATs have been fielded by the Air Force.

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**Image:** MetaVR VRSG real-time scene of an MQ-9 ER Reaper entity in flight over MetaVR's geospecific 3D terrain of the port of Kismayo, Somalia. Inset shows VRSG's simulated RPA camera view.

## About MetaVR

MetaVR, founded in 1997, develops commercial PC-based software for the military simulation and training markets, featuring high-speed 3D visualization content and rapid creation of networked virtual worlds using real-world data. MetaVR's real-time visual systems provide the fidelity of geospecific simulation with game-quality graphics. Users can build (with real-world photographic imagery, elevation data, and feature data) high-fidelity virtual worlds with our terrain generation tools, and render in real time, at 60Hz frame rates, the resulting virtual world with our real-time 3D visualization application, Virtual Reality Scene Generator. MetaVR systems are used for applications such as UAS/RPA trainers, manned flight simulators, mission planning and rehearsal, joint fires and JTAC simulation training, urban operations training, and emergency response management training. For more information, visit [www.metavr.com](http://www.metavr.com).

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