

RQ-7B SHADOW[®] 200 UAS

Unmanned Aircraft Systems



The RQ-7B Shadow[®] 200 Unmanned Aircraft System (UAS) provides Maneuver Commanders a near real-time, highly accurate, sustainable capability for over-the-horizon Reconnaissance, Surveillance, Target Acquisition (RSTA).

Shadow[®] provides 12 hours of continuous operations on station within a 24-hour period, with surge to 18 hours and provides Electro-optical, Infra-red, Laser Pointer/Illuminator, and Laser Designation



Wing Span	Max Gross Weight	Range	Airspeed	Altitude	Endurance	Payloads	Launch/Recovery
20.4 ft	460 lbs	125 km	65 kts loiter 110 kts dash 70 kts cruise	>15,000 ft msl	9 hrs @ 50 km	EO/IR, Laser Pointer, Laser Designator, Communications Relay Package	100 m x 50 m Area



Maneuver Commander's Tactical Unmanned Aircraft System

Shadow 200 System Description

Internal and External Payloads



TCDL
(Tactical Common Data Link)



POP 300 Laser Designator



Automatic Takeoff and Landing System

OSRVT
(One System Remote Video Terminal)



UGCS/UGDT
(Universal Ground Control Station and Ground Data Terminal)



Real Time Processing and Improved Avionics Architecture

Basic Platoon Maneuver TUAS System

Ground Control Station	2
Air Vehicle	4
Remote Video Terminal & Antenna	4
Portable Ground Control Station & Data Terminal	1
Air Vehicle Transport +1 Trailer & Launcher	2
Personnel/Equipment Transport & Trailer	2
35D (Platoon Leader)	1
UAV Warrant Officer (*150U)	1
Platoon Sergeant (*15W)	1
Air Vehicle Operator (*15W)	12

Maintenance Section

Maintenance Section Multifunctional	1
Personnel/Equipment Transport	1
UAS Repairer (15E)	7



System Characteristics

- Hydraulic launcher on standard HMMWV trailer
- One-man deployable in less than 10 minutes
- System transportable on six C-130 aircraft
- Early entry capability with three C-130 aircraft
- Tactical Automatic Landing System (TALS)
- Compatible with Army's Battle Command System



Project Manager
UAS Project Office
(SFAE-AV-UAS)
Redstone Arsenal, Alabama 35898

