

XM1216 & XM1216 E1 Small Unmanned Ground System (SUGV)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



MISSION

The XM1216 & XM1216 E1 Small Unmanned Ground Vehicle (SUGV) is a lightweight, Soldier-portable unmanned ground vehicle capable of conducting Military Operations in Urban Terrain (MOUT), tunnels, sewers and caves. The SUGV provides Situational Awareness, Situational Understanding (SA/SU) and Intelligence, Surveillance and Reconnaissance (ISR) to dismounted Soldiers. Enables the performance of manpower intensive or high-risk functions without exposing Soldiers directly to the hazards while providing intelligence, information and increase situational awareness at the squad level.

DESCRIPTION

The 34.4 pound SUGV consists of the following: Day/Night/Thermal cameras, laser range finder, Infra-Red (IR) illuminator to facilitate night combat operations, Global Positioning System (GPS), two-way speaker and microphone, and a ruggedized handheld controller. The XM1216 E1 SUGV includes a militarized EO/IR

sensor head, adding target location and improves day/night recognition to 300 meters. The improved XM1216 E1 adds the Joint Tactical Radio System (JTRS) Handheld, Manpack and Small Form Fit (HMS) radio, and ability to mount payloads including: a tether/spooler; tactical engagement simulator and a manipulator arm. Mission duration up to six hours on two BB-2590 batteries, operating in sewers, tunnels and caves, travelling at speeds up to 10 kph, climbing stairs and 10 inches vertical obstacles and traversing slopes up to 17 degrees lateral and 31 degrees vertical. It is capable of carrying up to four pounds of payload weight and fording 6 inches of water.

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

- **4QFY12:** 3rd Brigade, 1st Armored Division successfully employed XM1216 SUGVs in Operation Enduring Freedom deployment and completed Operational Assessment Theater
- **4QFY12:** Fielding 38 XM1216 SUGV systems to 4th Brigade, 101st Airborne Division (Air Assault)

PROJECTED ACTIVITIES

- **1QFY14:** XM1216 E1 Milestone C Decision

ACQUISITION PHASE

Technology Development	Engineering & Manufacturing Development	Production & Deployment	Operations & Support
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**XM1216 & XM1216 E1
Small Unmanned
Ground System (SUGV)**

FOREIGN MILITARY SALES

None

CONTRACTORS

Prime:

iRobot (Burlington, MA)

Electronics:

Benchmark Electronics (Nashua, NH)

Communications/Navigation Units:

BAE (GEC) (Wayne, NJ)

Radios:

General Dynamics (Scottsdale, AZ)

Operator Control Unit Software:

Boeing (Anaheim, CA)

