## Secretive U.S. space plane due to land U.S. Air Force's robotic X-37B space plane is set to return to Earth after almost two years in orbit. The secret mission is believed to have been a test of new sensors and other next-generation satellite technologies Propulsion Pavload bay: Unpressurized Guidance Liquid-fuelled area similar in size to pickup Onboard GPS rocket engine truck bed. Deployable solar navigation and for orbital panels provide power in orbit flight control. manoeuvres Autonomous re-entry and landing sequence **Twin** angled tail fins A BOEING USAF Air brake **SPECIFICATIONS** Lenath 8.38m Wingspan 4.6m Thermal protection: Heat-resistant Launch weight 5 tonnes ceramic tiles shield craft from intense Re-entry speed Mach 25 heat of re-entry Orbit range 177-800km Experiment bay JP-8 kerosene iet fuel tank Hvdroaen peroxide tank Space shuttle Avionics Manoeuvrina to scale X-37B MISSIONS thrusters Landing **VEHICLE** Launched **Duration** OTV-1 Dec 3, 2010 Apr 22, 2010 8 months Jun 16, 2012 15 months OTV-2 Mar 5, 2011

OTV-1

Sources: U.S. Air Force, Boeing, Space.com

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