

Unmanned Aircraft Market Shares, Strategies, and Forecasts, Worldwide, 2011 to 2017

https://marketpublishers.com/r/U712466C3C8EN.html

Date: February 2011

Pages: 712

Price: US\$ 3,600.00 (Single User License)

ID: U712466C3C8EN

Abstracts

WinterGreen Research announces that it has a new study on unmanned aircraft systems (UAS). Unmanned aircraft systems (UAS) markets grow as the military realizes these airplanes provide a less expensive way to provide defense and deterrent. These markets are poised to grow based on the creation of new services efficiencies that accrue from improved technologies. New composite materials systems are achieving consistent price declines throughout the forecast period.

The 2011 study has 791 pages and 256 tables and figures. Worldwide markets are poised to achieve significant growth as governments worldwide move to implement more cost efficient military systems and weapons delivery modalities. Vendors are building out localized distribution networks that support a UAS system in a local environment, providing remote control of airplanes.

Unmanned aircraft systems (UAS) are achieving a level of relatively early maturity. Fleets of unmanned aircraft systems have begun to evolve. The U.S. Army has achieved one million flight hours for its unmanned aircraft systems fleet.

Unmanned aerial systems have good handling characteristics. Units are designed to perform high-speed, long-endurance, more covert, multi-mission intelligence, surveillance, and reconnaissance (ISR) and precision-strike missions over land or sea.

Units feature a variety of internal weapons loads, including 2,000 lb Joint Direct Attack Munition (JDAM), an Electro-optical/Infrared (EO/IR) sensor, and an all-weather GA-ASI Lynx® Synthetic Aperture Radar/Ground Moving Target Indicator (SAR/GMTI), maximizing both long loiter ISR and weapons carriage capabilities.



Unmanned aircraft systems (UAS) offer the war fighter persistent situational awareness and strike mission affordability. For the cost of one manned fighter aircraft, multiple-swarm configured units can cover an area of interest, providing 24/7 ISR coverage, target identification, neutralization, mission flexibility, and attrition tolerance. Some UAS have the capability to perform manned aircraft missions.

Northrop Grumman Corp, maker of the high-altitude Global Hawk, and privately held General Atomics, which makes the Predator and Warrior unmanned planes are the market leaders in unmanned aerial systems (UAS).

According to Susan Eustis, primary author of the study, "growth is spurred by increasing interest from military planning departments. The military is moving toward embracing unmanned aircraft systems (UAS) because of the increased intelligence capability and deterrent efficiency combined. The versatility of single aircraft, and the ability to use multiple inexpensive aircraft for different purposes is a formidable and compelling market driver."

Unmanned aerial systems (UAS) markets at \$2.5 billion in 2010 are forecast to reach \$7 billion dollars, worldwide by 2017. US UAS aircraft have flown one million miles over the last four years and are set to fly one million more in the next year. The pace of utilization is picking up as the military realizes that UAS are significantly more efficient than manned aircraft in every way.

Units will be used by all branches of the military and intelligence community. Market growth of unmanned aircraft systems (UAS) markets is a result of units that can fly longer,, see better, provide more useful imaging, put better sensor packages in place, achieve better maneuverability, and implement new technology. The improved control units that permit handlers to work remotely also improves systems capability. Units more easily portable, more battery technology permits the ability for systems to stay in the air longer. New systems permit refueling in the air.

Companies Profiled

Market Leaders
Boeing
Lockheed Martin
General Atomics Aeronautical Systems, Inc. (GA ASI)
Northrop Grumman
L-3 Communications Corp., Aurora Flight Sciences



Integrated Dynamics

Textron

AeroVironment

BAE Systems

Market Participants

AB Precision (Poole) Ltd

Airborne Technologies

Applied Research Associates, Inc.

ARA

ATK

BAE Systems Large UGV 5-42

BAE Systems Plc (BAES.L) Hired

Black Ram Engineering

Boeing-/ iRobot

Caterpillar

Challis Helicopters Inc. / Challis Heliplane UAV

Challis Heliplanes

Concurrent Technologies

Corsair

DiSTI Software For UAV Systems

DOK-ING

Draganfly Innovations Inc.

DRS Unmanned Technologies, Inc.

Elbit Systems Ltd.,

Elbit Systems of America

Frontline Robotics

G-NIUS Unmanned Ground Systems Ltd

Report Methodology

This is the 462nd report in a series of market research reports that provide forecasts in communications, telecommunications, the internet, computer, software, and telephone equipment. The project leaders take direct responsibility for writing and preparing each report. They have significant experience preparing industry studies. Forecasts are based on primary research and proprietary data bases. Forecasts reflect analysis of the market trends in the segment and related segments. Unit and dollar shipments are analyzed through consideration of dollar volume of each market participation in the segment. Market share analysis includes conversations with key customers of products, industry segment leaders, marketing directors, distributors, leading market participants,



and companies seeking to develop measurable market share. Over 200 in-depth interviews are conducted for each report with a broad range of key participants and opinion leaders in the market segment.



Contents

UNMANNED AERIAL SYSTEMS (UAS) EXECUTIVE SUMMARY

Unmanned Aerial Systems (UAS) Executive Summary
Military Unmanned Aerial Systems (UAS)
Unmanned Aerial Systems (UAS) Market Shares
Unmanned Aircraft Market Forecasts
Unmanned Aerial Systems (UAS), Market Total Forecasts

UNMANNED AERIAL SYSTEMS (UAS)MARKET DESCRIPTION AND MARKET DYNAMICS

1. UNMANNED AERIAL SYSTEMS (UAS) MARKET DESCRIPTION AND MARKET DYNAMICS

- 1.1 Unmanned Aircraft Systems (UAS)
 - 1.1.1 Western Defense
 - 1.1.2 US Changes Military Spending Patterns
 - 1.1.3 Funding By U.S. Department Of Defense (DOD) Shifts to Department of State
 - 1.1.4 Chinese Unmanned Aircraft (UAS) Positioning
- 1.2 Pre-Position UASs In Key Strategic Locations
 - 1.2.1 Maritime Air Take-Off and Landing:
 - 1.2.2 Unmanned Aerial Systems (UAS) Aerial Refueling
 - 1.2.3 Unmanned Aerial Systems (UAS) Enhanced Strike Capability and Payloads
 - 1.2.4 Unmanned Aerial Systems (UAS) Enhanced Resilience
 - 1.2.5 Increased Use Of Stealth
 - 1.2.6 Small and Micro-UASs
 - 1.2.7 Unmanned Aerial Systems (UAS) Organization, Culture and CONOPS:
- 1.3 Network Centric Warfare Enablers
 - 1.3.1 Chemical, Biological and Radiological Detection
 - 1.3.2 Urban Warfare
- 1.4 Unmanned Aerial Systems (UAS) Classification
 - 1.4.1 United States Military Tier System For Categorizing UAVs
- 1.5 Unmanned Aerial Systems (UAS) SAR: Surveillance and Reconnaissance
 - 1.5.1 Unmanned Aerial Systems (UAS) Perimeter Surveillance
 - 1.5.2 Unmanned Aerial Systems (UASs) Surveillance
- 1.5.3 Military Role Of Unmanned Aircraft Systems: Predator Launching of Hellfire Missile



- 1.5.4 Issues With Civilian Casualties
- 1.5.5 Targeted Missiles
- 1.5.6 Unmanned Aerial Systems (UAS) Transport
- 1.6 UAS Convoy Applications
- 1.7 Unmanned Aerial Systems (UAS) Convoy-Following Mode
 - 1.7.1 Unmanned Aerial Systems (UAS) Corridor Mapping
 - 1.7.2 Unmanned Aerial Systems (UAS) Traffic Monitoring
 - 1.7.3 Unmanned Aerial Systems (UAS) Agriculture Mapping
 - 1.7.4 Unmanned Aerial Systems (UAS) Homeland Security
 - 1.7.5 Unmanned Aerial Systems (UAS) for Scientific Research
- 1.8 Globalization and Technology
 - 1.8.1 Proliferation of Conventional Military Technologies
- 1.8.2 UASs General Roles
- 1.9 Border Patrol:
- 1.10 Development Of Lighter Yet More Powerful Power Sources For UASs

UNMANNED AERIAL SYSTEMS (UAS)MARKET SHARES AND MARKET FORECASTS

- 2.1 Unmanned Aerial Systems (UAS) Market Shares and Forecasts
- 2.2 Military Unmanned Aerial Systems (UAS)
- 2.3 Unmanned Aerial Systems (UAS) Market Shares
 - 2.3.1 Large Unmanned Aerial Systems (UAS) Market Shares
 - 2.3.2 Northrop Grumman Global Hawk
 - 2.3.3 Northrop Grumman
 - 2.3.4 Northrop Grumman BQM-74E Aerial Target
 - 2.3.5 Northrop Grumman Euro Hawk
 - 2.3.6 Northrup Grumman Global Hawk
 - 2.3.7 Northrop Grumman Fire Scout
 - 2.3.8 Northrop Grumman's NAVY BAMS Program
 - 2.3.9 General Atomics Aeronautical Systems Sky Warrior® UAS
 - 2.3.10 General Atomics Aeronautical Systems, Inc. (GA?ASI) Avenger
- 2.3.11 General Atomics Aeronautical Systems, Inc. (GA?ASI) GA-ASI Sky Warrior Alpha and Sky Warrior UAS
 - 2.3.12 General Atomics Aeronautical Systems Predators
 - 2.3.13 BAE Systems
 - 2.3.14 BAE Systems Taranis Unmanned Combat Air Vehicle (UCAV)
- 2.3.15 Small and Mid Size Unmanned Aerial Systems (UAS) Market Shares
- 2.3.16 Textron /AAI



- 2.3.17 Textron Systems AAI Shadow 200 TUAS
- 2.3.18 Textron AeroVironment \$11.2 Million Order for Raven Unmanned Aircraft Systems and Services
- 2.3.19 Aurora Flight Sciences Odysseus Solar-Powered Aircraft
- 2.3.20 Draganflyer X4 UAV
- 2.3.21 Insitu
- 2.3.22 DRS Unmanned Technologies Ground Control Stations
- 2.3.23 Proxy Aviation Systems
- 2.3.24 Northrop Grumman.Bat 3
- 2.4 Unmanned Aircraft Market Forecasts
 - 2.4.1 Unmanned Aerial Systems (UAS), Market Total Forecasts
 - 2.4.2 UAS and ISR Market Wing Based Subsegments
 - 2.4.3 Unmanned Aerial Systems Segments
 - 2.4.4 Fixed-Wing Aircraft UAVs Functional Categories
 - 2.4.5 Unmanned Aerial Systems Altitude Classifications
 - 2.4.6 Unmanned Aerial Systems Tier Classifications
 - 2.4.7 U.S. Army tiers
 - 2.4.8 Future Combat Systems (FCS) (U.S. Army) Classes
 - 2.4.9 Drone Categories
 - 2.4.10 Markets For Military Avionics
- 2.5 Unmanned Aerial Systems Payloads
 - 2.5.1 Composites Key to UAV utility
 - 2.5.1 Unmanned Aerial Systems (UAS) US Market
 - 2.5.2 Unmanned Aerial Systems (UAS) European Market
- 2.6 Unmanned Airplane Regional Market Analysis
 - 2.6.1 U.S Accounts for 73 Percent Of The Worldwide Research, Development, Test,

And Evaluation (RDT&E) Spending On UAV Technology

- 2.6.2 Unmanned Aerial Vehicle (UAV) Industry Regional Summary
- 2.6.3 UAS Marketplace Moving Target
- 2.6.4 UAS Composites Market
- 2.6.5 UAS Composites A Smaller Part Of The Larger Whole
- 2.6.6 Evolving UAVs For Civilian Roles
- 2.6.7 UAS High Value, Low Risk, and Low Cost
- 2.6.8 UAS Persistent Surveillance:
- 2.6.9 UAS Precision Strike:
- 2.6.10 Unmanned Aircraft Systems (UAS)Missions
- 2.6.11 Number Of Aircraft And Helicopters Worldwide
- 2.7 Unanned Areial Vehicles Regional Analysis
 - 2.7.1 Europe



- 2.7.2 China UAS
- 2.7.3 Australia Fighter Aircraft
- 2.7.4 Australia Training
- 2.7.5 Australia Airborne Early Warning & Control
- 2.7.6 Australia Aerial Refueling
- 2.7.7 Australia Maritime Patrol
- 2.7.8 Australia UAV Reconnaissance/Surveillance
- 2.7.9 Australia Transport
- 2.7.10 Bahrain Attack helicopter
- 2.7.11 Bahrain Fighter Aircrafts
- 2.7.12 Bahrain Trainer
- 2.7.13 Bahrain Transport
- 2.7.14 Bahrain Utility Aircraft
- 2.7.15 Egypt Fighter Aircrafts
- 2.7.16 Egypt UAV
- 2.7.17 Egypt Trainer Aircraft
- 2.7.18 Egypt Transports
- 2.7.19 Egypt Helicopter
- 2.7.20 Egypt Airborne Early Warning and Control (AEWC)
- 2.7.21 Finland
- 2.7.22 Finland Helicopters
- 2.7.23 Great Britain Royal Air Force Combat Aircraft
- 2.7.24 Great Britain Trainer Aircraft
- 2.7.25 Great Britain Transport Aircraft
- 2.7.26 Great Britain Transport, Search and Rescue Helicopter
- 2.7.27 Great Britain Reconnaissance Aircraft
- 2.7.28 Great Britain Fleet Air Arm
- 2.7.29 Great Britain Army Air Corps
- 2.7.30 Great Britain Future Acquisitions
- 2.7.31 Israel
- 2.7.32 Israel Future
- 2.7.33 Kuwait Aircraft
- 2.7.34 Kuwait Air Defence Systems
- 2.7.35 Kuwait Government Aircraft
- 2.7.36 Morocco Inventory
- 2.7.37 Philippines Inventory
- 2.7.38 Portugal Inventory
- 2.7.39 Portugal On Order
- 2.7.40 Saudi Arabia Inventory



- 2.7.41 Singapore Inventory
- 2.7.42 Singapore Plans
- 2.7.43 South Korea Inventory
- 2.7.44 South Korea Projects
- 2.7.45 South Korea F-15K Crash Controversy
- 2.7.46 South Korea F-X Phase 2
- 2.7.47 South Korea F-X Phase 3
- 2.7.48 South Korea E-X Early Warning Aircraft Program
- 2.7.49 South Korea KF-X Future Fighter Program
- 2.7.50 Spain Aircraft Inventory
- 2.7.51 Switzerland Aircraft Inventory
- 2.7.52 Helicopters
- 2.7.53 Turkey Inventory
- 2.8 Future plans
- 2.8.1 United Arab Emirates Inventory 2010

UNMANNED AERIAL SYSTEMS (UAS)PRODUCT DESCRIPTION

3. UNMANNED AERIAL SYSTEMS (UAS) PRODUCT DESCRIPTION

- 3.1 Northrop Grumman MQ-8B Fire Scout
 - 3.1.1 Northrop Grumman RQ-4 Global Hawk
 - 3.1.2 Northrop Grumman Global Hawk (U.S. Air Force) RQ-4 Programs
 - 3.1.3 Northrop Grumman GHMD (U.S. Navy
 - 3.1.4 NASA Global Hawk (NASA Dryden)
 - 3.1.5 NATO AGS (U.S. and Allied Nations)
 - 3.1.6 Northrop Grumman X-47B UCAS
- 3.2 Northrop Grumman MLB Company
 - 3.2.1 Northrop Grumman.Bat 3
 - 3.2.2 Northrop Grumman V-BAT UAV
 - 3.2.3 Northrop Grumman Super Bat with Piccolo II Autopilot and TASE Gimbal
- 3.2.4 Northrop Grumman MLB Super-BAT Aerial Information Products
- 3.3 Lockheed Martin
- 3.3.1 Lockheed Martin K-MAX Unmanned Helicopter
- 3.4 Boeing
 - 3.4.1 Boeing A160 Hummingbird Helicopter
- 3.5 BAE Systems
 - 3.5.1 BAE Systems Unmanned Aerial Vehicle (UAV)
 - 3.5.2 BAE Systems Compact Rotary Wing/UAV LDRF



- 3.5.3 BAE Systems Herti
- 3.5.4 BAE Systems Image Collection and Exploitation (ICE) Sensor Management System
- 3.5.5 BAE Systems Mantis
- 3.5.6 BAE Systems MIM500™ Series of Uncooled Infrared Camera Cores
- 3.5.7 BAE Systems Taranis
- 3.5.8 BAE Systems Taranis Unmanned Combat Air Vehicle (UCAV)
- 3.6 Textron / Aerosonde
 - 3.6.1 Textron / Aerosonde AAI Services
 - 3.6.2 Textron Systems AAI
- 3.6.3 Textron Systems AAI RQ-7B Shadow® Tactical UAS Unmanned Aircraft Systems (UAS)
- 3.6.4 Textron Systems AAI Shadow® Tactical Unmanned Aircraft System (TUAS)
- 3.6.5 AAI Shadow 400 Unmanned Aircraft Deployed With Allied Naval Forces
- 3.6.6 Textron Systems AAI Shadow 600 System
- 3.6.7 Textron Systems AAI Ground Control Stations
- 3.6.8 Textron Systems AAI Remote Intelligence, Surveillance and Reconnaissance Terminals
 - 3.6.9 Textron Systems AAI / Aerosonde®
 - 3.6.10 Textron Systems AAI and Aeronautics Orbiter™
 - 3.6.11 Textron Systems AAI Ground Control Stations
- 3.6.12 Textron Systems AAI Remote Intelligence, Surveillance and Reconnaissance Terminals
 - 3.6.13 Textron Systems AAI One System Remote Video Terminal
 - 3.6.14 Textron Systems AAI Tactical Sensor Intelligence Sharing System
 - 3.6.15 Textron Systems AeroVironment AV's Family of Small UAS
 - 3.6.16 Textron Systems Wasp Micro Air Vehicle (MAV)
 - 3.6.17 Textron Systems AeroVironment UAS: Dragon Eye
 - 3.6.18 Textron Systems AeroVironment Stratospheric Persistent UAS
 - 3.6.19 Textron Systems AeroVironment Global Observer
 - 3.6.20 Textron Systems AeroVironment Digital Data Link
 - 3.6.21 Textron Systems AeroVironment UAS Services
 - 3.6.22 Textron Systems AeroVironment UAS Advanced Development: Switchblade®
- 3.6.23 Textron Systems AeroVironment UAS Advanced Development: Nano- Air Vehicle
- 3.7 Aurora Flight Sciences Hale
 - 3.7.1 Aurora Flight Sciences Orian
 - 3.7.2 Aurora Flight Sciences Odysseus Solar-Powered Aircraft
 - 3.7.3 Aurora Flight Sciences Orion HALL



- 3.7.4 Aurora Flight Sciences Military Utility
- 3.7.5 Aurora Flight Sciences Earth Science Applications
- 3.7.6 Aurora SunLight Eagle
- 3.8 Small Unmanned Aerial Systems
 - 3.8.1 Skate
 - 3.8.2 Aurora Tactical Systems
 - 3.8.3 Aurora Diamond DA42 MPP
 - 3.8.4 Aurora Excalibur
 - 3.8.5 Aurora GoldenEye 50
 - 3.8.6 Aurora GoldenEye 80
 - 3.8.7 System Description
- 3.9 L-3 Communications UAS Programs
 - 3.9.1 L-3 Communications Next Generation Precision Unmanned Aircraft Systems
 - 3.9.2 L-3 Communications Small Expendable Tube-Launched UAS
 - 3.9.3 L-3's Mid-Tier UAS Programs
- 3.9.4 L-3 Communications Medium Altitude Long Endurance Unmanned Or Manned Mobius
 - 3.9.5 L-3 Unmanned Systems' Viking 100 Runway Operations
 - 3.9.6 L-3 Communications Viking 300 Runway Operations
 - 3.9.7 L-3 Communications Viking 400
 - 3.9.8 L-3 Communications TigerShark
 - 3.9.9 L-3 Communications Generation IV Ground Control Station
 - 3.9.10 L-3 Communications On-board Precision Automated Landing System (O-PALS)
 - 3.9.11 L-3 Communications ISR Services
 - 3.9.12 L-3 Communications System Integration and Technical Support
- 3.10 Challis Heliplane UAV Inc.
- 3.11 Draganfly Innovations Inc.
 - 3.11.1 Draganflyer X6
 - 3.11.2 Draganflyer Aerial Photography & Video Applications
 - 3.11.3 Draganflyer Real Estate Applications
 - 3.11.4 Draganflyer Law Enforcement Applications
- 3.12 DRS Unmanned Technologies Ground Control Stations
 - 3.12.1 DRS Aircraft Monitoring Unit (AMU)
 - 3.12.2 General Atomics Aeronautical Systems, Inc. (GA?ASI) Claw® Sensor Control
 - 3.12.3 GA?ASI Athena Rf Tag
 - 3.12.4 Boeing ScanEagle Small Footprint UAS Solutions
- 3.13 Insitu
- 3.14 Boeing / Insitu ScanEagle
- 3.15 Insitu Integrator



- 3.15.1 Insitu NightEagle
- 3.16 Integrated Dynamics
 - 3.16.1 Integrated Dynamics Border Eagle MK II
 - 3.16.2 Integrated Dynamics Hornet
 - 3.16.3 Integrated Dynamics HAWK MK V
 - 3.16.4 Integrated Dynamics VISION UAV systems
 - 3.16.5 Integrated Dynamics VISION MK I
 - 3.16.6 Integrated Dynamics Vision M K I I
 - 3.16.7 Integrated Dynamics S/Integrated Dynamics Integrated Dynamics M K I
 - 3.16.8 Integrated Dynamics Vector
 - 3.16.9 Integrated Dynamics Tornado
 - 3.16.10 Integrated Dynamics Nishan MK II
- 3.16.11 Integrated Dynamics Nishan TJ 1000
- 3.17 Integrated Dynamics Rover
- 3.17.1 Integrated Dynamics Explorer
- 3.18 MMIST Mist Mobility
 - 3.18.1 MMist Unmanned Logistics Air Vehicle (ULAV)
- 3.19 Sherpa Ranger / MMist
- 3.20 Marcus UAV Systems
 - 3.20.1 Marcus Autopilots
- 3.21 Proxy Aviation Systems
 - 3.21.1 Proxy SkyRaider
- 3.22 LaserMotive
- 3.23 China Aerospace Science & Industry Corp Jet-Powered WJ600
- 3.24 ASN Technology Group
- 3.25 Boeing X-37B Space Shuttle

UNMANNED AERIAL SYSTEMS (UAS)TECHNOLOGY

4. UNMANNED AERIAL SYSTEMS (UAS) TECHNOLOGY

- 4.1 Northrop Grumman.BAT UAV Open Architecture
- 4.2 Integrated Dynamics Flight Telecommand & Control Systems
 - 4.2.1 AP 2000
 - 4.2.2 AP 5000
 - 4.2.3 IFCS-6000 (Integrated Autonomous Flight Control System)
 - 4.2.4 IFCS-7000 (Integrated Autonomous Flight Control System)
 - 4.2.5 Portable Telecommand And Control System (P.T.C.S.)
- 4.3 Integrated Radio Guidance Transmitter (IRGX)



- 4.3.1 Portable Telecommand And Control System (P.T.C.S.)
- 4.4 IRGX (Integrated Radio Guidance Transmitter)
 - 4.4.1 Ground Control Stations
 - 4.4.2 GCS 1200
 - 4.4.3 GCS 2000
- 4.5 Antenna Tracking Systems
- 4.6 ATPS 1200
 - 4.6.1 ATPS 2000
 - 4.6.2 Gyro Stabilized Payloads
 - 4.6.3 GSP 100
 - 4.6.4 GSP 900
 - 4.6.5 GSP 1200
- 4.7 Civilian UAV's Rover Systemstm
- 4.8 CPI-406 Deployable Emergency Locator Transmitter (ELT)
 - 4.8.1 Deployable Flight Incident Recorder Set (DFIRS)
 - 4.8.2 Airborne Separation Video System (ASVS)
 - 4.8.3 Airborne Separation Video System Remote Sensor (ASVS RS)
 - 4.8.4 Airborne Tactical Server (ATS)
- 4.9 Aurora Very High-Altitude Propulsion System (VHAPS)
- 4.10 Aurora Autonomy & Flight Control
 - 4.10.1 Aurora Guidance Sensors And Control Systems MAV Guidance
- 4.10.2 Aurora Multi-Vehicle Cooperative Control for Air and Sea Vehicles in Littoral Operations (UAV/USV)
- 4.10.3 Aurora and MIT On-board Planning System for UAVs Supporting Expeditionary Reconnaissance and Surveillance (OPS-USERS)
 - 4.10.4 Aurora Flare Planning
 - 4.10.5 Aurora Distributed Sensor Fusion
 - 4.10.6 Aurora Aerospace Electronics
 - 4.10.7 Aurora is CTC-REF
- 4.11 Space Technologies: Autonomous Control of Space Nuclear Reactors (ACSNR)
- 4.11.1 Rule-based Asset Management for Space Exploration Systems (RAMSES)
- 4.11.2 Synchronized Position Hold, Engage & Reorient Experiment Satellites (SPHERES)
- 4.12 Positive Pressure Relief Valve (PPRV)
 - 4.12.1 Chip-Scale Atomic Clock (CSAC)
 - 4.12.2 Low-design-Impact Inspection Vehicle (LIIVe)
 - 4.12.3 Synthetic Imaging Maneuver Optimization (SIMO)
- 4.12.4 Self-Assembling Wireless Autonomous Reconfigurable Modules (SWARM)
- 4.13 Persistent, Long-Range Reconnaissance Capabilities



- 4.13.1 United States Navy's Broad Area Maritime Surveillance (BAMS) Unmanned Aircraft System (UAS) program
- 4.13.2 Navy Unmanned Combat Air System UCAS Program:
- 4.13.3 Navy Unmanned Combat Air System UCAS: Objectives:
- 4.14 Search and Rescue (SAR)
- 4.15 L-3 Communications LinkTEK™ IDS
- 4.16 L-3 Communications flightTEK® SMC
 - 4.16.1 Helicopter Main Limiting Factor Retreating Blade Stall
- 4.17 Draganflyer X4 Applications
 - 4.17.1 Draganflyer X4 Large Project Management
 - 4.17.2 Draganflyer Remote Supervision and Investigation of Equipment
- 4.17.3 Draganflyer Remote Supervision and Investigation of Agricultural Land and Equipment
 - 4.17.4 Draganflyer Advanced RC Flight Research
 - 4.17.5 Aerial Archeology
- 4.17.6 Environmental Assessment
- 4.17.7 The Draganflyer X4 is Fun to Fly
- 4.18 White Blood Cell Counter

UNMANNED AERIAL SYSTEMS (UAS)COMPANY PROFILES

5. UNMANNED AIRCRAFT SYSTEMS (UAS) COMPANY PROFILES

- 5.1 AB Precision (Poole) Ltd
- 5.2 AeroVironment
 - 5.2.1 AeroVironment UAS Training
 - 5.2.2 AeroVironment UAS Logistics
 - 5.2.3 AeroVironment UAS Advanced Development Center
- 5.3 Airborne Technologies,
- 5.4 Applied Research Associates, Inc.
- 5.5 ARA
 - 5.5.1 ARA Unmanned Ground Vehicles (UGVs)
- 5.6 ATK
 - 5.6.1 ATK Financial Information
 - 5.6.2 ATK Armament Systems
 - 5.6.3 ATK Revenue 2010
- 5.7 Aurora Flight Sciences
 - 5.7.1 Aurora Flight Sciences Leadership in UAV Team Operations
 - 5.7.2 Aurora Track Record



- 5.7.3 Aurora R&D and Core Competencies
- 5.7.4 Aurora Flight Sciences Odysseus Solar-Powered Aircraft
- 5.7.5 Aurora Integrated Airframe Engineering And Production Solutions
- 5.7.6 Aurora Mobile-Agent Based Collaborative Sensor Fusion
- 5.7.7 Facilities/Site Infrastructure
- 5.7.8 Aurora Research and Development R&D
- 5.7.9 Aurora Flight Sciences Aerospace Systems and Concepts
- 5.7.10 NASA Study for Subsonic Commercial Transports (N+3)
- 5.7.11 Rapid Prototyping
- 5.7.12 Aurora Propulsion
- 5.7.13 Aurora Distributed Engine Control
- 5.7.14 Aurora Flig Airborne Autonomous Systems Advanced Concepts
- 5.8 BAE Systems
 - 5.8.1 BAE Key Facts
 - 5.8.2 BAE Strategy
 - 5.8.3 BAE Operational Framework
 - 5.8.4 BAE Key Performance Indicators (KPIs)
 - 5.8.5 BAE Systems Ant Size Robot
 - 5.8.6 BAE Project Management
 - 5.8.7 BAE Engineering
 - 5.8.8 BAE Personal Robots
 - 5.8.9 BAE Systems Large UGV
- 5.8.10 BAE Systems Plc (BAES.L) Hired Advisors To Sell Part Of Its North American

Commercial Aerospace Business

- 5.9 Black Ram Engineering
- 5.10 Boeing
 - 5.10.1 Boeing 787 Dreamliner
 - 5.10.2 Boeing 787 Dreamliner Performance
 - 5.10.3 Boeing Advanced Technology
 - 5.10.4 Boeing Participation In Commercial Jet Aircraft Market
 - 5.10.5 Boeing Participation In Defense Industry Jet Aircraft Market
 - 5.10.6 Boeing Defense, Space & Security
 - 5.10.7 Boeing Advanced Military Aircraft:
 - 5.10.8 Boeing Military Aircraft
 - 5.10.9 Boeing Continuing Progress
 - 5.10.10 Boeing-iRobot Team Receives New SUGV Task Order From US Army
- 5.11 Caterpillar
 - 5.11.1 Caterpillar Revenue
- 5.12 Challis Helicopters Inc. / Challis Heliplane UAV



5.12.1 Challis Heliplanes

5.13 Concurrent Technologies Corporation Awarded \$46 Million For Ground Robotics Technology

- 5.14 Corsair
 - 5.14.1 Corsair Customers
- 5.15 DiSTI Software For UAV Systems
- **5.16 DOK-ING**
- 5.17 Draganfly Innovations Inc.
 - 5.17.1 Draganfly Innovations Inc.
- 5.18 DRS Unmanned Technologies, Inc.
 - 5.18.1 DRS Technologies Revenue
 - 5.18.2 DRS Tactical Systems Rugged Tablet
- 5.18.3 DRS Technologies \$22 Million in Orders for Reset and Overhaul of U.S. Air Force Tunner Cargo Loaders
- 5.19 Elbit Systems Ltd.,
 - 5.19.1 Elbit Systems of America
- 5.20 Frontline Robotics
- 5.21 General Atomics Aeronautical Systems, Inc. (GA?ASI)
 - 5.21.1 General Atomics Aeronautical Systems, Inc. (GA?ASI)
 - 5.21.2 General Atomics Aeronautical Systems, Inc. Company
 - 5.21.3 General Atomics Aeronautical Systems Unmanned Aircraft Systems
 - 5.21.4 General Atomics Aeronautical Systems Control Stations
 - 5.21.5 General Atomics Aeronautical System Statistical Reconnaissance Radars:

Sar/Gmti

- 5.21.6 General Atomics Aeronautical Systems Predator UAS Guidance And Control
- 5.21.7 General Atomics Aeronautical Systems Industry Milestones
- 5.21.8 General Atomics Aeronautical Systems Sky Warrior UAS Initial Production for Army's ER/MP Program
- 5.22 G-NIUS Unmanned Ground Systems Ltd
- 5.23 General Dynamics / AxleTech International
 - 5.23.1 General Dynamics
 - 5.23.2 General Dynamics Information Technology
 - 5.23.3 General Dynamics Broad Portfolio Of Products And Services In Business

Aviation; Combat Vehicles, Weapons Systems And Munitions

- 5.23.4 General Dynamics Combat Autonomous Mobility System (CAMS)
- 5.23.5 General Dynamics \$60 Million Contract by U.S. Air Force for Mission

Operations Support

- 5.23.6 General Dynamics Revenue
- 5.23.7 General Dynamics Business Group Revenue



- 5.23.8 General Dynamics Combat Systems Awards
- 5.23.9 General Dynamics Land Systems \$24 Million Contract To Supply Commanders Remote Operated Weapons
- 5.23.10 General Dynamics Canadian Government's LAV III Upgrade Program
- 5.23.11 General Dynamics U.S. Military Vehicle Business
- 5.23.12 General Dynamics GDRS Profile
- 5.23.13 General Dynamics' Combat Systems Group
- 5.23.14 General Dynamics and Elbit Systems of America Form Joint Venture to

Provide Tactical UAVs to U.S. Market

5.23.15 General Dynamics: Hermes® and Skylark® Systems Developed And Fielded by Elbit Systems Ltd

5.24 GE

- 5.24.1 GE Unmanned Aircraft
- 5.25 Harris
- 5.25.1 Harris Situational Awareness Video Receiver (SAVR)
- 5.26 Insitu
 - 5.26.1 Insitu Deployed Operations
 - 5.26.2 Insitu Integrated Logistics Support
 - 5.26.3 InsituTechnology
 - 5.26.4 Insitu Innovation
 - 5.26.5 Insitu Small Tactical Unmanned Air System/Tier II Contract
- 5.26.6 Insitu's ScanEagle Unmanned Aircraft System Selected by U.S. Air Force

Academy to Train Cadets

5.26.7 Insitu / FAA Unmanned Aircraft Systems National Airspace Integration Research

5.27 Integrated Dynamics

5.27.1 Explorer U.S.A. Bound

5.28 intelliDrones

5.29 InRob Tech

5.29.1 InRob Tech Revenue

5.30 iRobot

- 5.30.1 iRobot Develops Robotics And Artificial Intelligence Technologies
- 5.30.2 iRobot Strategy
- 5.30.3 iRobot Home Floor Cleaning Robots
- 5.30.4 iRobot Scooba Major Consumer Product Line
- 5.30.5 iRobot Pool Cleaning Robots
- 5.30.6 iRobot Gutter Cleaning Robot
- 5.30.7 iRobot Programmable Robot
- 5.30.8 iRobot Product Customers



- 5.30.9 iRobot Revenue
- 5.30.10 iRobot Home Robots
- 5.30.11 iRobot Government and Industrial Robots
- 5.30.12 iRobot Locations
- 5.30.13 iRobot Military Programs iRobot Revenue
- 5.30.14 iRobot Geographic Information
- 5.30.15 iRobot Significant Customers
- 5.30.16 iRobot Description
- 5.30.17 iRobot Industry Segment, Geographic Information and Significant Customers
- 5.30.18 iRobot Home Robots
- 5.30.19 iRobot Government and Industrial
- 5.30.20 iRobot Geographic Information
- 5.30.21 iRobot Home Robot Division Revenue And Units Shipped
- 5.30.22 iRobot Government And Industrial Division
- 5.30.23 iRobot Strategy
- 5.30.24 iRobot Government and Industrial Products
- 5.30.25 iRobot Home Robots
- 5.30.26 iRobot Government & Industrial Robots
- 5.30.27 iRobot Partners and Strategic Alliance
- 5.30.28 iRobot / Boeing Company
- 5.30.29 iRobot / Advanced Scientific Concepts
- 5.30.30 iRobot / TASER International
- 5.31 John Deere
 - 5.31.1 John Deere Agriculture & Turf Equipment
 - 5.31.2 John Deere Worldwide Construction & Forestry Division
- 5.32 L-3 Communications Corp.,
 - 5.32.1 L-3 Unmanned Systems Solution
 - 5.32.2 L-3 UAS Manufacturing
 - 5.32.3 L-3 Composite Material Shop
 - 5.32.4 L-3 Electrical Assembly Design, Manufacturing and Integration
 - 5.32.5 L-3 UAS Integration and Final Assembly
 - 5.32.6 L-3 UAS Prototyping / Component Manufacturing
 - 5.32.7 L-3 Quality Assurance
 - 5.32.8 L-3 Communications Revenue
 - 5.32.9 L-3 UAS Capabilities
 - 5.32.10 L-3 System Integration
 - 5.32.11 L-3 Aircraft Systems Design
 - 5.32.12 L-3 Embedded Real-Time Software
 - 5.32.13 L-3 Dynamic Flight Simulation and Analysis



- 5.33 LaserMotive
- 5.34 Lockheed Martin Corp
 - 5.34.1 Lockheed Martin Customer Base:
 - 5.34.2 Lockheed Martin Organization:
 - 5.34.3 Lockheed Martin Financial Performance:
 - 5.34.4 Lockheed Martin Receives \$260 Million M-TADS/PNVS Production Contract
 - 5.34.5 Lockheed Martin F-35 Electro-Optical Targeting System
 - 5.34.6 Lockheed Martin
 - 5.34.7 Lockheed Martin Defense Department Positioning
 - 5.34.8 US Navy awards Lockheed Martin Contract to Pioneer Technology To

Efficiently Manage Groups Of Unmanned Vehicles

- 5.35 Meggitt
 - 5.35.1 BAE Mantis UAS Advanced Concept Technology
- 5.36 Mesa Robotics, Inc.MRI
 - 5.36.1 MRI Mesa Robotics Group
 - 5.36.2 MRI's Facility
- 5.37 MLB Company
 - 5.37.1 V-Bat 3.0 Autonomous Hover Flight Tests
 - 5.37.2 MLB Bat 3 Maps San Bernabe Vineyard
 - 5.37.3 MLB Bat 3 flies at Edwards AFB for FAA ARC Committee
- 5.38 Mist Mobility Integrated Systems Technology Inc. (MMIST)
 - 5.38.1 MMIST Third Wing Kit
- 5.39 Northrop Grumman
- 5.39.1 Northrop Grumman Corp (NOC.N) Spinning Off Or Selling Its Shipbuilding Business
 - 5.39.2 Northrop Grumman Remotec Robots
- 5.39.3 Northrop Grumman Opens New Facilities for Design and Manufacture of Unmanned Ground Vehicles in Coventry
- 5.39.4 Northrop Grumman Business Sectors:
- 5.39.5 Northrop Grumman Aerospace Systems
- 5.40 Omnitech Robotics
- 5.41 Oshkosh
- 5.41.1 Oshkosh Defense Signs Agreement With U.S. Army To Further Develop Unmanned Ground Vehicle Technology
- 5.42 Oto Melara SpA
 - 5.42.1 Oto Melara SpA Land Automatic Surveillance Capabilities
- 5.43 Proxy Aviation Systems, Inc.
 - 5.43.1 Proxy Aviation Systems Receives \$4.4 Million in Federal Funding
 - 5.43.2 Proxy Aviation Systems Virtual Pilot Guides Multiple UAVs



- 5.44 Qinetiq / Foster-Miller
 - 5.44.1 QinetiQ UK MOD and the US DoD Provide Target Markets
 - 5.44.2 Qintiq / Foster Miller Australia confirms A\$22.015 Million Talon buy
 - 5.44.3 QinetiQ Revenue 2005-2009
 - 5.44.4 QinetiQ North America
 - 5.44.5 QinetiQ Revenue
 - 5.44.6 QinetiQ UK
 - 5.44.7 QinetiQ North America
 - 5.44.8 QinetiQ Autonomy and Robotics
 - 5.44.9 QinetiQ Group Revenues
 - 5.44.10 QinetiQ Business Review Governance
 - 5.44.11 QinetiQ Revenue By Customer
 - 5.44.12 QinetiQ North America
 - 5.44.13 QinetiQ North America / Foster-Miller
 - 5.44.14 QinetiQ North America / Foster-Miller
 - 5.44.15 QinetiQ Common Robotic Controller (CRC)
 - 5.44.16 QinetiQ North America World-Class Technology
 - 5.44.17 QinetiQ North America Technology Solutions Group
- 5.45 Robotic Technology Inc.
 - 5.45.1 RTI Energetically Autonomous Tactical Robot (EATR) Project
 - 5.45.2 RTI Intelligent Vehicle Technology Transfer (IVTT) Program
 - 5.45.3 Robotic Technology Precision Urban Hopper
 - 5.45.4 Robotic Technology Robot
- 5.46 RE2, Inc.
- 5.46.1 RE2, Inc. Awarded Funding to Develop a Conformal End-Effector
- 5.47 Rolls-Royce
- 5.48 SESI
 - 5.48.1 SESI Boeing Preferred Supplier Status
- 5.49 Stratom Warrior Tool and Payload Accessory Kit
- 5.50 Telerob
 - 5.50.1 Telerob EOD / IEDD Equipment, EOD Robots and Vehicles
 - 5.50.2 TEODor Heavy Duty Explosive Ordnance Disposal (EOD) Robot
 - 5.50.3 Telerob Telemax High-Mobility EOD Robot
 - 5.50.4 Telerob EOD / IEDD Service Vehicles
 - 5.50.5 Telerob's Electrical Force-Reflecting-Manipulators (FRMs)
 - 5.50.6 American Crane and Equipment Corp and Telerob Partnership
- 5.51 Textron
 - 5.51.1 Textron Systems AAI Corporation
 - 5.51.2 AAI Capabilities



- 5.51.3 Textron AAI Strategic Businesses
- 5.51.4 Italy Selects AAI's Shadow® 200 Tactical Unmanned Aircraft System
- 5.51.5 Textron AAI U.S. Air Force Meteorological System Logistics and Technical Services
- 5.51.6 Saab Awards AAI \$31.4 Million to Provide Combat-Proven Shadow® Tactical Unmanned Aircraft Systems for the Swedish Armed Forces
 - 5.51.7 Aerosonde
 - 5.51.8 Aerosonde Product Development
 - 5.51.9 Textron Buys MillenWorks: Unmanned Vehicle Maker
 - 5.51.10 Textron Marine & Land Systems
- 5.52 Thales
- 5.53 Versa / Allen-Vanguard
 - 5.53.1 Allen Vanguard Trading Suspended on Stock
 - 5.53.2 Allen Vanguard HAL® EOD/IEDD/Search Tasks Hook and Line System
 - 5.53.3 Versa / Allen Vanguard Equinox I
 - 5.53.4 Versa / Allen Vanguard Field Test Set
 - 5.53.5 Allen-Vanguard Revenue
- 5.54 VIA Technologies
 - 5.54.1 VIA Technologies Complete Platform Provider
 - 5.54.2 VIA Technologies Market Leadership
 - 5.54.3 VIA Technologies Global Operations
 - 5.54.4 VIA Technologies Meeting the Market Challenge
 - 5.54.5 VIA Technologies Dynamic Fabless Business Model



List Of Tables

LIST OF TABLES AND FIGURES

UNMANNED AERIAL SYSTEMS (UAS)EXECUTIVE SUMMARY

Table ES-1

Unmanned Aerial Systems Functions

Table ES-2

Unmanned Aerial Systems Features

Table ES-3

Unmanned Aerial Systems Mission Tasks

Table ES-4

Unmanned Aerial Systems (UAS) Benefits

Figure ES-5

Large and Mid Size Unmanned Aerial Systems (UAS)

Market Shares, Dollars, 2010

Figure ES-6

Unmanned Aerial Systems (UAS), Market Forecasts,

Dollars, Worldwide, 2011-2017

UNMANNED AERIAL SYSTEMS (UAS)MARKET DESCRIPTION AND MARKET DYNAMICS

Table 1-1

Ability Of UASs To Perform Strike Function

Table 1-2

Fixed-wing Aircraft UAVs Functional Categories

Table 1-3

Fixed-wing Aircraft UAVs Alternative Functional Categories

Table 1-4

Fixed-wing Aircraft UAVs Pattern Of Function Categories

Table 1-5

US Military Fixed-wing Aircraft UAVs Functional Categories

Table 1-6

Modular SAR: Surveillance and Reconnaissance Components

Table 1-7

UAS Applications Using Unmanned Aerial Vehicles

Figure 1-8



Mosaic And Footprint Shape Files To Identify Frames

Figure 1-9

Increase In Resolution That Is Possible With

Georeferenced Imagery

Table 1-10

Department of Transportation Applications

Table 1-11

Unmanned Aerial Systems (UAS) Homeland

Security Sites To Be Monitored

Unmanned Aerial Systems (UAS)Market Shares and Market Forecasts

Table 2-1

Unmanned Aerial Systems Functions

Table 2-2

Unmanned Aerial Systems Features

Table 2-3

Unmanned Aerial Systems Mission Tasks

Table 2-4

Unmanned Aerial Systems (UAS) Benefits

Figure 2-5

Large and Mid Size Unmanned Aerial Systems (UAS)

Market Shares, Dollars, 2010

Table 2-6

Large and Mid Size Unmanned Aerial Systems (UAS)

Market Shares, Dollars, 2010

Figure 2-7

Large Unmanned Aerial Systems (UAS) Market Shares, Dollars, 2010

Figure 2-8

Large Size Unmanned Aerial Systems (UAS)

Market Shares, Dollars, 2010

Figure 2-9

Northrop Grumman Global Hawk

Figure 2-10

Northrop Grumman UAV Legacy

Figure 2-11

BAE Systems Taranis

Table 2-12

Small and Mid Size Unmanned Aerial Systems (UAS)

Market Shares, Dollars, Worldwide, 2010

Table 2-13



Small and Mid Size Unmanned Aerial Systems (UAS)

Market Shares Dollars, Worldwide, 2010

Figure 2-14

Unmanned Aerial Systems (UAS), Market Forecasts,

Dollars, Worldwide, 2011-2017

Table 2-15

Unmanned Aerial Systems Market, Dollars, Worldwide,

2011-2017

Figure 2-16

Unmanned Aerial Systems (UAS) Market Segments, Dollars, 2010

Figure 2-17

Unmanned Aerial Systems (UAS) Market Segments, Dollars, 2017

Figure 2-18

Unmanned Aerial Battlefield Reconnaissance Systems

Market Forecasts, Dollars, Worldwide, 2011-2017

Figure 2-19

Unmanned Aerial Combat Systems Market Forecasts, Dollars,

Worldwide, 2011-2017

Table 2-20

Unmanned Aerial Systems Market Industry Segments,

Dollars, Worldwide, 2011-2017

Table 2-21

Unmanned Aerial Systems Market Industry Segments,

Percent, Worldwide, 2011-2017

Table 2-22

Unmanned Aerial Systems Market Industry Segments,

Units, Worldwide, 2011-2017

Table 2-23

Sub-Sectors Of The Market For Military Avionics and

Unmanned Aerial Vehicles (UAS)

Figure 2-24

Unmanned Aerial Systems Vehicle (UAS) Regional

Market Segments, Dollars, 2010

Table 2-25

Unmanned Aerial Systems Regional Market Segments, 2010

Table 2-26

Unmanned Aircraft Systems (UAS)Missions



Table 2-27

World Helicopter Fleet:

UNMANNED AERIAL SYSTEMS (UAS)PRODUCT DESCRIPTION

Figure 3-1

Northrop Grumman MQ-8B Fire Scout

Table 3-2

Northrop Grumman MQ-8B Fire Scout System Requirements:

Figure 3-3

Northrop Grumman MQ-8B Fire Scout System Needs:

Figure 3-4

Northrop Grumman Global Hawk (U.S. Air Force)

Table 3-5

Northrop Grumman Global Hawk Specifications:

Table 3-6

Northrop Grumman X-47B UCAS

Figure 3-7

Bat 3 UAV

Table 3-8

Northrop Grumman.Bat 3 Specifications

Figure 3-9

Northrop Grumman Bat 3 with Piccolo II Autopilot and

TASE Gimbal

Table 3-10

Northrop Grumman Bat 3 fully integrated with Cloud Cap

Technolgy's Piccolo II Specifications

Figure 3-11

Northrop Grumman BAT 4 UAV

Table 3-12

Northrop Grumman MLB Super-Bat Specifications

Table 3-13

Lockheed Martin K-MAX Unmanned Helicopter Functions

Figure 3-14

Lockheed Martin K-MAX Unmanned Helicopter

Figure 3-15

Boeing A160 Hummingbird Unmanned Aerial Vehicle

Figure 3-16

BAE Systems Compact Rotary Wing / UAV LDRF



Figure 3-17

BAE Systems Herti Next Generation Autonomous Air System

Table3-18

BAE Systems Herti Key Roles

Table 3-19

H BAE Systems Herti Key Specifications

Table 3-20

BAE Systems Mantis Functions

Figure 3-21

BAE Systems MIM500™ Series Of Uncooled Infrared Camera Cores

Table 3-22

BAE Systems MIM500 Camera Functions

Table 3-23

Textron / Aerosonde Aircraft Flight Milestones And Capabilities

Table 3-24

Aerosonde Service Capabilities

Table 3-25

Textron AAI Optimization For The Aircraft For Military Missions

Table 3-26

Textron Systems AAI Ground Control Stations

Table 3-27

AAI Remote Intelligence, Surveillance and Reconnaissance Terminals

Figure 3-28

Textron Systems AeroVironment UAS: Raven

Figure 3-29

Textron Systems AeroVironment UAS: Wasp

Figure 3-30

AeroVironment UAS: Puma AE

Figure 3-31

Textron Systems AeroVironment UAS: Dragon Eye

Figure 3-32

Textron Systems AeroVironment UAS: Ground Control System

Table 3-33

Textron Systems Global Observer System Military Functions

Table 3-34

Textron Systems Global Observer System

Homeland Security Functions

Table 3-35

Textron Systems Global Observer Features



Figure 3-36

Textron Systems AeroVironment Nano Air UAS Advanced

Development Aircraft:

Figure 3-37

Aurora Flight Sciences UAS

Table 3-38

Aurora Flight Sciences Tactical UAVs

Table 3-39

Aurora Projects

Table 3-40

Aurora's Line of Tactical UAVs

Table 3-41

DA42 MPP Features

Table 3-42

Aurora DA42 MPP Features

Table 3-43

Aurora DA42 MPP Target Applications

Figure 3-44

Aurora Excalibur

Table 3-45

Aurora GoldenEye 80 Air Vehicle Planned Design Improvements

Figure 3-46

Aurora Flight Sciences GoldenEye 80

Figure 3-47

L-3 Communications Next Generation Precision

Unmanned Aircraft Systems

Figure 3-48

L-3 Communications Cutlass Launching From

Ground And Air Tubes

Table 3-49

L-3 Communications Cutlass Launching Alternatives

Table 3-50

L-3 Communications Cutlass Functions

Figure 3-51

L-3 Communications Cutlass

Figure 3-52

L-3 Communications Mid-Tier Filling The Gap Between

Tactical And Male UAS

Table3-53



L-3's Mid-Tier UAS Program Functions

Figure 3-54

L-3 Communications Medium Altitude Long Endurance

Unmanned Or Manned - Mobius

Table 3-55

L-3 Communications Mobius Proven Airframe Features

Table 3-56

L-3 Communications Cutlass Tube-Launched Small

UAS Key Features

Table 3-57

L-3 Unmanned Systems' TigerShark Unmanned

Aircraft System (UAS) Functions

Figure 3-58

L-3 Communications Mobius™

Figure 3-59

Challis Heliplane

Figure 3-60

Challis CH-160 Heliplane Specifications

Figure 3-61

Challis Velocity Raptor Heliplane Specifications

Figure 3-62

Draganflyer Camera

Figure 3-63

Draganflyer Hovering

Figure 3-64

Draganflyer Quad Rotor Provides Flight Stability

Figure 3-65

Draganflyer Compact Foldable Frame

Figure 3-66

Draganflyer Military Tactical Surveillance

Table 3-67

Griffin Eye Manned ISR System Claw® Sensor Control Functions

Figure 3-68

GA?ASI GMTI to EO/IR

Figure 3-69

GA?ASI Select targets by RCS or Size

Figure 3-70

GA?ASI Annotation of Sensor Products

Figure 3-71



GA?ASI Optical change detection

Figure 3-72

GA?ASI Aided Target Classification Based On Sensor Model

Figure 3-73

GA?ASI Multi-Spectral Image Viewer

Figure 3-74

GA?ASI Stealthy Blue Force Tracking Device

Table 3-75

Boeing-Insitu ScanEagle In Service Views

Figure 3-76

Boeing ScanEagle

Figure 3-77

Insitu ScanEagle

Figure 3-78

Insitu Integrator Sustainment Operations

Figure 3-79

Insitu NightEagle

Figure 3-80

Integrated Dynamics UAV Airframe Systems

Figure 3-81

MMIST SnowGoose

Table 3-82

MMist CQ-10B advantages:

Table 3-83

MMist CQ-10 System

Figure 3-84

SherpaTM Ranger

Table 3-85

Shepra Characteristics

Table 3-85

Sherpa™ Systems Guidance Units

Table 3-86

Sherpa™ Provider Advantages:

Figure 3-87

MMist Payload

Figure 3-88

Marcus Zephyr Airframes UAV Systems

Table 3-89

Marcus Zephyr Airframes UAV Systems Specifications:



Table 3-90

Proxy SkyRaider Benefits:

Table 3-91

Proxy Aviation UAV capabilities

Figure 3-92

Chinese jet-powered WJ600 Chinese jet-powered WJ600

Figure 3-93

Chinese UAS

Table 3-94

Chinese V750 Helicopter Drone

Table 3-95

Air Show China 2010 J10 Chinese Fighter Jets

Figure 3-96

Boeing X-37B Space Shuttle

UNMANNED AERIAL SYSTEMS (UAS)TECHNOLOGY

Figure 4-1

Northrop Grumman.BAT UAV Features

Figure 4-2

Aurora Autonomy & Flight Control

Table 4-3

Aurora Development Capabilities

Table 4-4

Aurora / NASA Development Of Automated Landing Systems

Table 4-5

Aurora / NASA Development Automated Landing System

Table 4-6

Aurora / NASA Autopilot Development Issues

Table 4-7

Aurora / NASA Flare Planner Development

Table 4-8

Roles And Capabilities, Provided By Manned Platforms,

With UASs by 2030

Figure 4-9

Size, Role, and Platform of Unmanned Aircraft

Table 4-10

Aircraft Prime Contractor Missions

Table 4-11



L-3 Communications LinkTEK Key Communication Features

Figure 4-12

linkTEK™ IDS

Integrated, power-packed flight control for

Table 4-13

flightTEK Controls

Tightly integrated, power-packed flight control for UAVs

Figure 4-14

Large Project Management

Figure 4-15

Draganflyer Remote Supervision and Investigation of Equipment

Figure 4-16

Draganflyer Pipeline / Hydro-Transmission Line Inspection

Figure 4-17

Draganflyer Remote Supervision and Investigation of

Agricultural Fields and Crops

Figure 4-18

Draganflyer Advanced RC Flight Research

Figure 4-19

Draganflyer Remote Aerial Archeology

Figure 4-20

Draganflyer Remote Environmental Assessment

Figure 4-21

Draganflyer Fun

Figure 4-22

Advanced Flight Entertainment

Table 4-23

Draganflyer RC Helicopter Aerial Photography and

Videography Platform

UNMANNED AERIAL SYSTEMS (UAS) COMPANY PROFILES

Table 5-1

AV's UAS Logistics Support Solutions:

Figure 5-2

ARA's Unmanned Ground Systems

Table 5-3

ATK Acquisitions

Table 5-4



ATK Sales by Contract

Table 5-5

ATK Sales by Military and Commercial Customers

Figure 5-6

Aurora Flight Sciences Positioning

Table 5-7

Aurora Flight Sciences of Mississippi (AMS) Operations Functions

Figure 5-8

Aurora's Centaur Low-Cost, Reliable General Aviation ISR

Aircraft Can Be Converted For Unmanned Flight

Figure 5-9

BAE Military Robot in Development

Figure 5-10

Black RAM Engineering UAS

Table 5-11

Boeing Military Aircraft Key programs

Table 5-12

Boeing Unmanned Airborne Systems:

Table 5-13

Boeing Weapons:

Figure 5-14

Challis Heliplanes

Figure 5-15

Draganfly Innovations X8

Figure 5-16

Draganfly Innovations X6

Figure 5-17

Draganfly Platform

Figure 5-18

DRS Technologies Tablet Computer

Table 5-19

Frontline Robotics Functions

Table 5-20

Frontline Robotics Positioning

Figure 5-21

General Atomics Aeronautical Systems Predator UAS Series

Guidance And Control

Table 5-22

AvantGuardium G-NIUS' Unmanned



Ground Systems Core Technologies

Figure 5-23

Insitu Small Tactical Unmanned Air System

Figure 5-24

Insitu's ScanEagle Unmanned Aircraft System U.S.

Air Force Academy Training

Table 5-25

iRobot Robots Dangerous Tasks Performed

Figure 5-26

iRobot Home Robots vs, Military and First Responder Robots

Figure 5-27

L-3 Machine Shop

Figure 5-28

Lockheed Martin F35B In-Flight STOVL Operations

Figure 5-29

Lockheed Martin Linking Legacy Radio Waveforms Into AMF JTRS

Figure 5-30

Lockheed Martin C-139 J Cargo Plane

Figure 5-31

Lockheed Martin Next Generation Identification Systems

Figure 5-32

Lockheed Martin Linking Legacy Radio Waveforms to AMF JTRS

Figure 5-33

MLB Bat 3 Maps San Bernabe Vineyard

Figure 5-34

MMist Cargo Unmanned Aerial System

Table 5-35

Proxy Aviation Systems Software Applications

Table 5-36

QinetiQ North America Technology Solutions Group Capabilities

Table 5-37

QinetiQ 2009 Positioning

Table 5-38

QinetiQ Highlights During 2009:

Figure 5-39

QinetiQ North America Revenue

Table 5-40

QinetiQ North America

Table 5-41



US Target Market Overview

Figure 5-42

QinetiQ Europe, Middle East and Australasia Positioning

Figure 5-43

QinetiQ Share of Group Revenue and Number of Employees

Table 5-44

QinetiQ Detection System Functions

Table 5-45

Foster-Miller Technical And Business Capabilities

Table 5-46

IVTT Program Supporting Departments

Figure 5-47

Robotic Technology Military Robot Hops Over Walls

Table 5-48

Telerob's Key Business Areas

Figure 5-49

Telerob Heavy-Duty EOD Robot Product

Figure 5-50

Telerob Army Technology Products

Figure 5-51

Versa / Allen Vanguard Hook and Line Applications



I would like to order

Product name: Unmanned Aircraft Market Shares, Strategies, and Forecasts, Worldwide, 2011 to 2017

Product link: https://marketpublishers.com/r/U712466C3C8EN.html

Price: US\$ 3,600.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/U712466C3C8EN.html