



Unmanned Systems

DEVELOPED FOR AIRBORNE, LAND & MARITIME APPLICATIONS

OUR CUSTOMERS ARE OUR CREDENTIALS



TCOM 17m Aerostat with Star SAFIRE HD



TAGS outfitted with TALON



AeroVironment RQ-11 Raven with Photon IR core



AAI Shadow 400 with TALON



MQ-8B Fire Scout VTUAV with Brite STAR II
Photo courtesy of Northrop Grumman Unmanned Systems

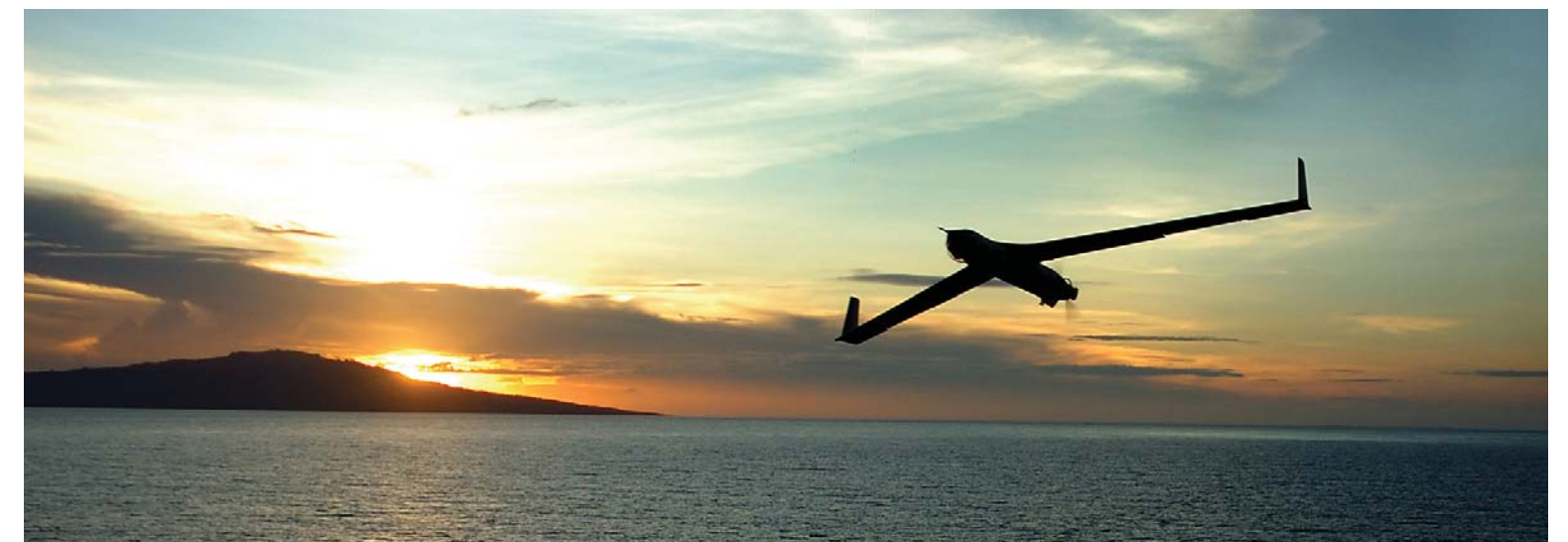
Extraordinary Vision for Every Mission

Extraordinary Vision is the ability to see what others can't. It's the ability to see first, to act first, the ability afforded by state-of-the-art EO/IR imaging equipment. It provides a decisive advantage. At FLIR, our name is synonymous with this technology.

FLIR Systems is the world leader in electro-optical and infrared (EO/IR) imaging systems — in fact, it's all we do. For more than 40 years, FLIR has pioneered infrared systems of all types including airborne and maritime surveillance and targeting systems, land and vehicle combat sensors and sights, and handheld systems.

For FLIR, our customers are our credentials. With over 100,000 sensors delivered, we have more sensors in operation, on more platforms, in more nations, than anyone else. From the RQ-11A/B Raven to the MQ-8B Fire Scout, we've delivered thousands of sensors and systems to unmanned applications.

For the operator, FLIR's total support capability means rapid response and fast turn-around. With all key technologies under one roof, support facilities worldwide, and FLIR's dedication to quality, it all adds up to one thing: Extraordinary Vision when and where you need it.



Insitu ScanEagle™ . Photo courtesy of Insitu, Inc.

PROVEN IN ALL APPLICATIONS

The World Leader in EO/IR

FLIR Systems has more EO/IR systems in operation on more airborne, land and maritime platforms, in more countries around the world, than any other company in the industry. Since 1978, FLIR has delivered over 14,000 sensors and systems to over 75 nations on over 100 different types of fixed and rotary wing aircraft, and maritime platforms ranging from major surface combatants to riverine and special boats. FLIR has delivered tens of thousands of sensors for vehicle applications ranging from long range vehicle RSTA to driver's vision enhancement, situational awareness, and vehicle weapons fire control.

Because of this unique experience base, FLIR has a proven capability to seamlessly transition our products and technology among platforms and applications, whether manned or unmanned.

Unmanned Aircraft Systems (UAS)

From the RQ-11A/B Raven to the MQ-8B Fire Scout, we've delivered thousands of sensors and systems to unmanned aircraft applications. Our products are proven and qualified on all different

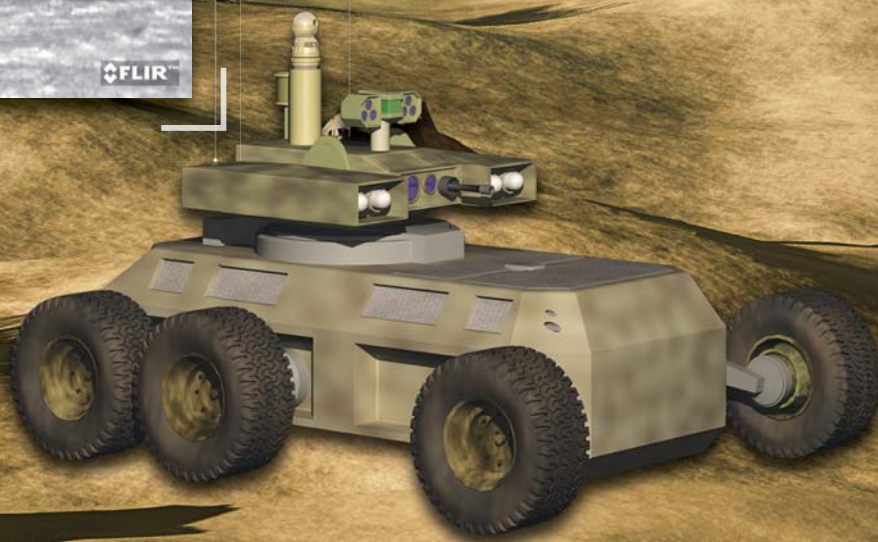
aircraft types from piston to turboprop, from rotary wing to high performance jets.

Unmanned Ground Systems (UGS)

FLIR Systems has developed robust EO/IR/LD components and systems to meet the most demanding and harshest environments experienced by UGVs. Commercially developed and military qualified(CDMQ), our long range and compact systems are an ideal solution and have been tested to the most arduous requirements for this emerging market.

Unmanned Maritime Systems (UMS)

FLIR Systems is a major EO/IR/LD supplier to the maritime surface vessel market. Our products are operational with the US Navy, US Coast Guard, Special Operations and Homeland Security and their counterparts throughout the World. Unmanned maritime applications are a natural fit for our equipment designed to withstand a harsh ocean environment.



LONG RANGE SYSTEMS

The Star SAFIRE and BRITE Star class systems provide the performance of much larger, 20 inch class systems in a more compact, lighter weight, multi-sensor configuration. Combat proven and qualified to the most severe MIL-SPEC requirements, these systems provide field-proven reliability and worldwide logistics support.

They feature the latest technical innovations including high-accuracy, Tightly Coupled GPS/IMU target geo-location; diode-pumped laser technology; and the second generation of Full HD digital imaging sensors. These systems also provide a full range of interface standards and are proven in unmanned applications.



Star SAFIRE® 380-HD Star SAFIRE® 380-HLD

Based on the Star SAFIRE HD, the world's first and only Full HD, all-digital multi-sensor system, the Star SAFIRE 380-HD is a single-LRU system with FLIR's Common Interface feature. With all the second generation HD technology and features of the Star SAFIRE HD, the 380-HD is interchangeable with other members of the Common Interface family for total installation flexibility. The Star SAFIRE 380-HLD is the first Full HD laser designation system, and uses FLIR's SWIR technology.

Star SAFIRE® 350-HD

Based on the UltraForce 350, the Star SAFIRE 350-HD is the all-European solution to High Definition multisensor requirements. The Star SAFIRE 350-HD is a single-LRU system with FLIR's Common Interface feature. With all the qualification and heritage of the UltraForce 350, 350-HD is interchangeable with other members of the Common Interface family for total installation flexibility.

Star SAFIRE® 275-HD

The Star SAFIRE 275-HD is the all-European solution to High Definition multisensor requirements. The Star SAFIRE 275-HD is a single-LRU system with FLIR's Common Interface feature. The 275-HD is interchangeable with other members of the Common Interface family for total installation flexibility.

Star SAFIRE® 230-HD Star SAFIRE® 260-HLD

Based on the Talon and UltraForce 9HD, the Star SAFIRE 230-HD provides up to seven simultaneous payloads with all-digital, 1080P/720P HD video for all video channels. The Star SAFIRE 230-HD is a single LRU system with FLIR's Common Interface feature, as is the Star SAFIRE 260-HLD high definition, laser designating system. Both are interchangeable with other members of the Common Interface Family.



TALON®

The TALON is a program-proven, lightweight, gyro-stabilized nine inch turret that contains up to six payloads simultaneously, an industry first for compact gimbals. Because of its heritage of fielded systems, TALON is a unique combination of leading edge performance and both maritime and desert-proven hardening.

COBALT 190

Derived from the U.S. Army developed MEP system, the single LRU COBALT 190 provides seven payloads, with multiple EO/IR sensors, eyesafe laser rangefinder, and laser designator. The optional Secondary Steering System for independent sensor pointing and target acquisition gives COBALT 190 capabilities unlike any other system in the world.



Star SAFIRE® HD Full HD | Gen II

The Star SAFIRE HD is the world's first and only Full HD, all-digital multi-sensor system. Now available with second generation HD technology and features, Star SAFIRE HD is in operation worldwide and is the proven leader in long range technology, providing the performance of a 20 inch system in a 15 inch package. FLIR is now approaching the 500th High Definition system delivery.

Star SAFIRE® III Sea Star SAFIRE® III

The Star SAFIRE III is the most widely used long range multi-sensor system in the world. Providing high demonstrated reliability and up to seven laser and sensor payloads, Star SAFIRE III is qualified beyond MIL-SPEC for use in the harshest environments. Sea Star SAFIRE III is specifically tailored for maritime operations with years of proven performance in ship-board operations.

BRITE Star® II BRITE Star® DP

The latest generation of the combat proven BRITE Star laser designation system. With a 100% duty cycle, diode pumped laser designator/rangefinder, BRITE Star II is proven in land and maritime operations, and is the sensor system on the US Marine Corps UH-1Y. The BRITE Star DP configuration is operational on armed reconnaissance and attack aircraft worldwide.

UltraForce® 350

With large gimbal performance but weighing in at just 28 kg, the UltraForce 350 uses graphite composite construction to achieve a unique blend of performance and low weight. Its all-European content and proven operational performance make the UltraForce 350 the ideal choice for airborne programs around the world.

UltraForce® 275

Like its larger cousin, the UltraForce 275 uses graphite composite construction to achieve a unique blend of performance and low weight, weighing in at just 15 kg. And like the UltraForce 350, the UltraForce 275 combines all-European content with proven operational performance to meet unmanned program requirements the world over.

COBALT 90

Developed specifically for unmanned applications, the single LRU COBALT 90 provides three payloads in a 3.5 inch diameter, stabilized micro turret, with an infrared sensor, color TV and laser pointer. For small airborne, maritime and ground platforms, COBALT 90 sets a new standard in multi-sensor size, capability and performance.



Star SAFIRE® LV

Benefitting from FLIR's experience operating Star SAFIRE III in the harsh desert climates of Iraq and Afghanistan, the Star SAFIRE LV is specifically tailored to land vehicle operations. Providing combat proven reliability and maintainability, Star SAFIRE LV is capable of long range target identification and geo-location, making it the ideal solution for vehicle RSTA missions.



MQ-8B Fire Scout VTUAV with Brite STAR II



HERTI with UltraForce 350

COMPACT SYSTEMS

As the long-time industry leader in compact multi-sensor systems, FLIR provides a full spectrum of capabilities in the TALON and COBALT system families. With size and weight profiles to fit all classes of unmanned platforms, FLIR packs more sensors and more performance into each system than anyone else.

All systems are MIL-SPEC qualified, available in single-LRU configurations, and provide a full range of interfaces. The TALON systems are proven in both manned and unmanned military applications, whereas the COBALT family of systems is specifically engineered for unmanned applications.

A Complete Family of Systems

From the leader in EO/IR technology comes a complete family of systems, covering all classes from 16 inches down to 3.5 inches, and most available in single-LRU configurations for ease of integration. Only FLIR Systems offers such a range of stabilized multi-sensor systems for unmanned applications.



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