HUNTER
THE TACTICAL UNMANNED AERIAL VEHICLE SYSTEM THAT HAS MET EVERY CHALLENGE

PROVEN AND AVAILABLE

IAI
TRW
Developed by an unequalled team, Hunter was selected by the U.S. Government to satisfy the requirements for its Short Range UAV system.

TRW Avionics & Surveillance Group and Israel Aircraft Industries (IAI) are recognized leaders in aerospace and defense. The world's most experienced team in UAV technology, IAI and TRW operate as a single unit, bringing to the Hunter decades of proven design, development, production, integration, project management and incorporation of battlefield experience.

TRW is a pre-eminent force in U.S. battlefield management with demonstrated unique military capabilities. TRW is the largest provider of tactical airborne reconnaissance systems for the U.S. Army, and has over 30 years of systems integration/engineering experience in reconnaissance and command, control, communications and intelligence (C4I). TRW's unmatched capabilities in software development and implementation for military programs have established the company as one of the DoD's major prime contractors.

IAI's formidable reputation for combat-proven, comprehensive UAVs and systems rests on an unmatched record of 20 years of experience, over 40,000 hours of UAV flight operations and four generations of UAV systems worldwide. IAI works hand in hand with the Israel Defense Forces, translating first hand operational knowledge into combat-proven comprehensive systems. IAI's plants (MALAT, ELTA, TAMAM and others) constitute, under one roof, a unique combination of expertise and capabilities for tailoring comprehensive solutions to every customer's operational requirements.

System Design

The advanced Hunter tactical range UAV system includes:

▲ Twin engine air vehicle with redundant systems.
▲ MOSP - Day/night, dual sensor, multi-mission otronics stabilized payload.
▲ Two Ground Control Stations, used for UAV command and control.
▲ A Mission Planning Station for real-time UAV mission planning.
▲ A ground and airborne data link communication and tracking system.
▲ An airborne data relay for commanding and controlling a mission UAV through a relay UAV.
▲ Launch and recovery systems.
▲ Ground Support Equipment.
Hunter - the cornerstone for all UAV systems

Versatile, highly reliable and affordable, the multi-mission Hunter features enhanced payload capacity, greater range and more endurance.

Fully redundant with twin engine air vehicle, the system significantly increases vehicle survivability and recoverability and prevents the loss of sophisticated or classified payloads through "minimum single point failure" design criteria (feed systems, electrical flight control, and other systems).

Interservice interoperability and commonality.
Enables joint simultaneous performance of a variety of different corps battlefield missions at every level, and with the command, control and communications architecture of the Army, Navy, Marines and Air Force.

Multi-UAV Operation
During test flights, four Hunter UAVs were in the air (two mission UAVs and two relay UAVs controlled by two GCSs) while the relay UAV, fully equipped with a MOSP, also successfully acted as a mission UAV.

Extensive Growth Potential Capability
Additional available space, carrying capability and electrical power on the UAV, enable the integration of additional payloads (i.e. Communication Relay, SAR/MTI RADAR, EW) and the ability to carry more than one payload (multi-sensor concept). Also, the modular building block approach and available computer capacity enable effective implementation of future upgrades. The MOSP has provisions for adding laser designator/range finder.

**Hunter Brings a Unique Dimension to Battlefield Management**

Strong, rugged and operational under most weather conditions, Hunter relays reconnaissance, surveillance and target acquisition and battlefield observation information back to ground control and mission monitoring stations; in real-time.

The Hunter system enables commanders to look deep into enemy territory by providing real-time comprehensive information necessary for real-time combat decisions.

**System Highlights**

MOSP, a dual sensor light-weight electro-optical payload with stabilized platform and tracking capabilities, providing complete coverage of the lower hemisphere. Unique to the Hunter, a range of sensor options including FLIR and TV with an in-flight ability to switch from one to another - providing a tactical advantage for target identification.

**Software-driven**, Hunter's advanced system allows all flight and communication data required for mission planning, commands and control including potential threats by on-site Mission Planning Station (MPS) to be prepared on computer.

**A Breakthrough in UAV Tactics**

**UAV Relay System**

Hunter's tandem relay system enables a UAV to transmit and receive data and imagery through a second UAV, which in turn relays the data to and from ground stations, resulting in increased UAV range and effectiveness.

**GROUND DATA TERMINAL (GDT)**
Technical Specifications

System Performance
Operational range
Operational range with airborne data relay
Data link
125 km +
200 km
Two (2) uplinks - microwave band
Two (2) downlinks - microwave band

Air Vehicle
Performance
Endurance 12 hours
Maximum ceiling 15,000 ft (max take-off weight)
Cruise speed 60-80 knots
Maximum speed 110 knots
Dimensions
- Wing Span 8.9 meter (29 ft)
- Length 6.9 meter (23 ft)
- Height 1.7 meter (5.6 ft)
Safety
Parachute for emergency recovery
Propulsion
Twin engine (in tandem)
2 x 68 hp
Fuel
Gasoline (Mogas)
Power Supply
3000 watt electrical power supply for airborne equipment
1500 watt available for different payloads

Space for Payloads
Up to 12,000 cu inch internally

Weight
Maximum T/O 1600 lbs (727 kg)
Maximum fuel 300 lbs (136 kg)
Maximum payload 250 lbs (114 kg)

Take-off and recovery
Runway 200 meters
Rocket Assisted Take-Off
Landing via arresting cable & hook

Payloads
MOSP
- Gyro balled sensors with 360 degree azimuthal coverage
- Day/Night Real-Time payload: FLIR and TV Cameras
AIRBORNE DATA RELAY

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