

WORLD CLASS
PRODUCTS & SERVICES
TO THE INDIAN AVIATION SECTOR

www.lotusaviation.com



Lotus Aviation Technology Pvt. Ltd
ISO 9001:2008

LOTUS AVIATION TECHNOLOGY PVT. LTD

AN **ISO 9001:2008 CERTIFIED** COMPANY PROVIDES WORLD CLASS PRODUCTS AND SERVICES TO THE INDIAN AVIATION SECTOR.

**We UNDERSTAND
IMPLEMENT
DELIVER**

OUR MISSION

Building a powerful relationship of aerospace technology, engineering, infrastructure and life cycle support business to produce endural value for all stake holders with highest ethics and standard followed.

CORE VALUES

- We value individual dignity, respect, the time and effort of others.
- Seek long term success, without compromising ethical business standards.
- Quality is the key to delivering value for money to our customers. It's always 'FIRST TIME RIGHT'.

WHAT WE DO

- Manufacturing high-end Avionics with world class TOT Partners.
- Sale and support of a number of avionics equipment and spares.
- System Integration and Analysis.
- Logistics and Supply chain activities.

SERVICES

- Project management.
- Service and support for AMC, Maintenance.
- Design and Development.
- Offset management.
- Engineering Support





DIRECTIONAL INFRARED-COUNTER MEASURES (DIRCM)

A DIRCM system includes a detection and warning apparatus for detecting a missile that might pose a threat on the platform to which the said system is allocated, and defensively countering guided missiles having infrared laser beam at the guided missile. It can simultaneously track and defeat threats in clutter environment. It can also counter all field IR missile threat using a single generic jam waveform.

Technical Parameters

| Details | Specifications |
|--|--------------------|
| Power Consumption (1Turret System) Standby Jamming | 205 W 300 W |
| Power Consumption (2Turret System) Standby Jamming | 300 W 490 W |
| FOV internal IR Tracker | AZ >7° EI > 6° |
| Max 1 Turret system 2 Turret System | 22.8 kg 38.2 kg |
| Power Supply | 28 VDC |



COCKPIT VOICE AND FLIGHT DATA RECORDER (CVFDR)

The cockpit voice and flight Data recorder from our OEM partner offers an exciting new line of combination of CVR and FDR as well as an internal Recorder Power Supply. With the flexibility to customize recording capabilities the CVFDR truly meets the needs of any aircraft operator. This new CVFDR has been developed in compliance with the newest, most rigorous testing and crash survivability standards. The CVFDRS internal recorder power supply gives a secure power supply source in the event of mains failure. The OEMs unique technology gives the CVFDR the most advanced and convenient solution available in the aviation market today.

Technical Parameters (Cockpit Voice Recorder)

| Details | Specifications |
|--|--|
| Recorder Time | 30 min continuous, 2 hours for solid state digital units |
| No if channels | 4 |
| Impact Tolerance | 3400 Gs/6.5 ms |
| Fire Resistance | 1100 °C /30 min |
| Water pressure resistance-submerged | 20,000 ft |
| Under water locator beacon | 37.5 KHZ |
| Battery life | 6 yr shelf life 30 day operation |

Technical Parameters (Flight Data Recorder)

| Details | Specifications |
|--|-------------------------------------|
| Recorder Time | 25 hour continuous |
| No if parameters | 5 to 300+ |
| Fire Resistance | 1100 °C /30 min |
| Water pressure resistance-submerged | 20,000 ft |
| Under water locator beacon | 37.5 KHZ |
| Battery life | 6 yr shelf life 30 day operation |
| | |

TOT with Teaming Partners



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LASER WARNING SYSTEM

Programmable Laser Warning Receiver (LWR) provides capability to the pilot to detect to direct incidence of laser range finders and designators. The system gives complete threat coverage with audio and visual warning. It has a low false alarm rate with directional indication for all threats. The LWR is immune to reflections from nearby objects, gun fire, lightning and fire.

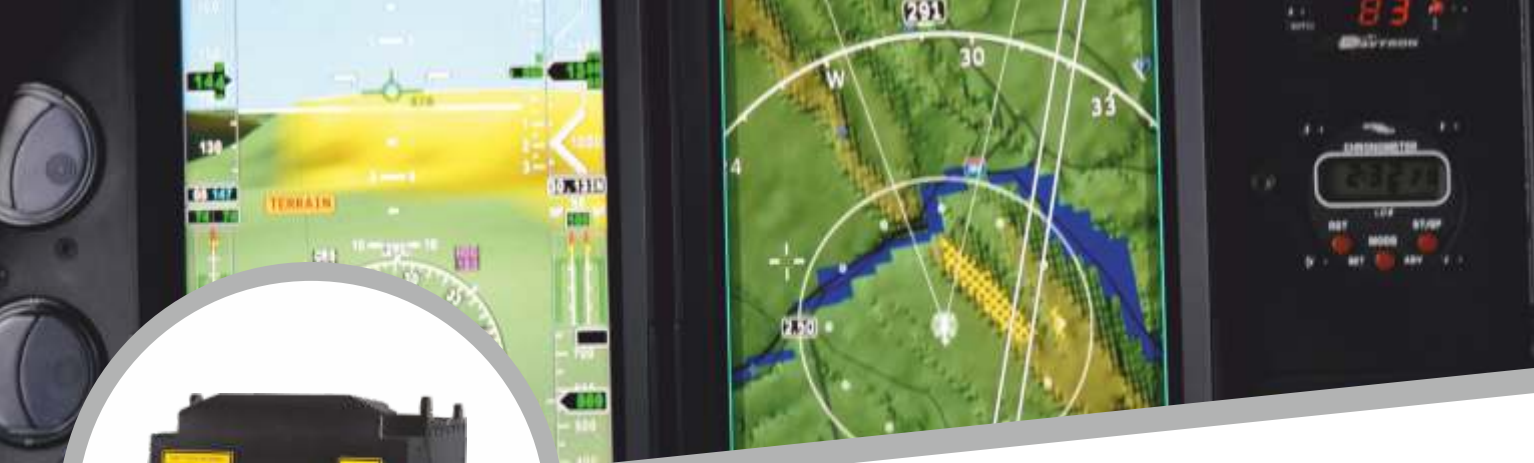
The ALTAS laser warner family comprises passive systems that are designed to detect, track and warn of hostile laser sources aiming at the platform. ALTAS permits easy installation and integration on all airborne military platforms. ALTAS can be easily integrated into higher level electronic warfare suites using standard interfaces.

The family is based on two laser warner systems:

- ALTAS-2Q Advance laser Threat Alerting System-2 Quadrants
- ALTAS-2QB Advance laser Threat Alerting System-2 Quadrants with Beamrider Detector

| Specifications | ALTAS-2Q | ALTAS-2QB |
|-----------------------------|----------------------------|--|
| Field of view (2 quadrants) | 182° AZ +/- 45° EL | 182° AZ +/- 45° EL |
| Wavelength | 0.5 um – 1.65 um (LRF/LTD) | 0.5 um – 1.65um (LRF/LTD) 0.85 um -1.1 um (LBR) |
| Multi-threat capability | ✓ | ✓ |

| Dimensions and Weights Sensor head (excl. connectors) | ALTAS-2Q | ALTAS-2QB |
|--|----------|-----------|
| Depth | 108 mm | 138 mm |
| Height | 123 mm | 189 mm |
| Width | 234 mm | 254 mm |
| Weight | 1.5 kg | <3.4 kg |



TERRAIN OBSTACLE COLLISION AVOIDANCE SYSTEM

The equipment delivers highest level of terrain and obstacle awareness with high resolution and concise aural alerts and warnings. Its open architecture facilitates future software upgrades. An enhanced ground proximity system which combines accurate positional knowledge (normally determined from GPS) with a precise three dimensional map of the terrain, to look ahead of the aircraft as well as downwards was designed. This generates warnings to the pilot if certain parameters are breached. Subsequently, other manufacturers produced similar systems, which are known collectively as Terrain Awareness and Warning Systems (TAWS).

Lotus Aviation through their world renowned partners have a well established network to deliver this equipment worldwide. Its open architecture facilitates future software upgrades also.

Technical Details

| Details | Specifications |
|----------------------------------|------------------------------|
| Probability of detection | > 99.55% |
| Detection Range | 1,200 mtrs |
| Obstacle awareness visualization | with prioritized warning |
| Power | 28 V.D.C < 250 W |
| Weight | 22 kg |
| Obstacle memory function | support helmet mounted right |

TOT with Teaming Partners



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TEST EQUIPMENTS

TESTFLIGHT



Test Stand for fuel components



Hydraulic Test Stand for Motors and Pumps



Bonding Tester



Insulation Tester



Hydraulic Ground Power Unit



Mobile GSE for Nitrogen charging and Pressure Intensification



TEST EQUIPMENTS

TESTFLIGHT



Supply Trolley for Different Media



Test Stand for wing Turning



Test Equipment for Oxygen System



Aircraft Fuel Drain Equipment



Test Stand for Pneumatic Systems



Hydraulic Test Stand for flight controls





LOTUS AVIATION TECHNOLOGY PVT. LTD

We Understand... We Implement... We Deliver

We would like to introduce ourselves as an ISO-9001:2008 certified company dedicated to serving the aviation industry in India. We are an approved and registered vendor for the supply of fixed and rotary wings aircraft spares to Indian Air Force, Hindustan Aeronautics Limited, Border Security Force etc. and various other Private and Commercial Airlines and Chartered companies in India. Our facility is located in New Delhi, India.

LIST OF PRODUCTS AND SERVICES THAT WE OFFER

Supply of Spares (Rotables & Consumables):

We are engaged in the supply of all types of consumables & rotatable spares for various types of aircraft's & helicopters, which include Dornier-228, HS 748 (AVRO), AN-32, MI series Helicopters, Airbus, Boeing, Business jets aircrafts like Bombardier, Gulf stream, Cessna citation, Dassault, Hawker Beechcraft etc.

OUR ASSOCIATES: (Civil & General Aviation)

Honeywell

We joined hands with Honeywell for sales & service support to cater Defense, Civil & General aviation customers and promote its avionics and other products in India i.e KHF 1050 Communication set, Weather Radar RDR 2000/2100, Enhanced Ground Proximity warning System, wind shear warning system, flight control system etc.



We are the teaming partner with Rockwell Collins to do Sales & After sales service to cater to our Defense and other aviation customer across the country and would provide the following i.e Tactical and Navigation system, Weather Threat Detection System, Graphical flight planning system, Touch control flight display, V/UHF communication set, Distance Measuring Equipment, Cockpit Display unit, Flight support services.

Test Fuchs Products

The company offers complete testing solution for aircraft manufactures, (Airbus, Boeing etc.) OEM's, Airline and MRO's depending upon the customers specification. The test system are available in different level of individualization i.e hydraulic test equipment, Fuel test equipment, Pneumatic test equipment and numerous ground support equipment.

Other Products & Services

- All types of rotatable spares for commercial and business jet and for rotary wings also.
- All types of oil, hydraulic, fuel filters and air filters.
- Consumables like Aero lubes, greases, adhesive, gaskets, tyres.
- Fasteners.
- Engineering Support.
- Ground Support equipment.

Maintenance Activities

- Undertake installation, commissioning and testing of avionic products.
- Provide training and manpower support/sourcing.
- All types of maintenance and service support.

For additional information please visit our website www.lotusaviation.com or send us an email on info@grouplotus.in or enquiry@grouplotus.in



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OUR TEAMING PARTNERS



Honeywell





Lotus Aviation Technology Pvt. Ltd
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