ABOUT AIRBORNE TECHNOLOGIES CONTACT

We are an Austrian private limited company based at the Wiener Neustadt Airport. Our company consists of a team of experts in aviation and system engineering.

Our scope of services includes the integration of any Airborne Remote Sensor into the customers´ platform as well as the development of customized ISR Turnkey Solutions for governments, police, military and many sectors of industry. We are manufacturer independent but close-partnered with a range of established and reliable sensor and aircraft manufacturers to guarantee best results for our customers.

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EASA Part 21 J approved Design Organisation
EASA Part 21 G approved Production Organisation

VIKING TWIN OTTER GUARDIAN 400

Incorporated in 1970 and headquartered in Victoria, British Columbia, Canada, Viking Air Limited is a world class aerospace company and global leader in utility aircraft services, employing over 500 personnel across two provinces in Western Canada.

Viking manufactures the Twin Otter Series 400 and Guardian 400 twin-engine turboprops. The Series 400 Twin Otter received type certification in 2010, and to date new Viking production aircraft have been exported to over 30 countries worldwide.

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VIKING TWIN OTTER
GUARDIAN 400

The leading-edge ISR allrounder

CONNECT & CONTROL
Reducing the information overflow – keep it simple

The mission management system Airborne LINX, developed by Airborne Technologies and adaptable to any rotary and fixed wing aircraft, connects all sensors and communication systems on board of the aircraft. It combines proven, operational COTS sensors from several suppliers with Airborne Technologies´ know-how and mission experience.

The advanced and tightly integrated sensor package is displayed on a leading-edge carbon fiber workstation, effectively configured to enhance the collection capabilities of the mission platform.

AIRBORNE LINX
HIGH-TECH FEATURES
of the workstation are:
• Large high resolution touchscreens
• Ergonomic placement of all components
• Augmented reality mapping and video system
• 4 Surveillance data recorders
• Tactical radios

The core element and user interface of Airborne LINX is the Mission Management Unit (MMU), a simple-to-use touch screen, designed for intuitive operation. Airborne LINX reduces the information overflow – meaning more can be achieved with fewer operators.

AIRBORNE LINX
Platform-independent mission system for airborne surveillance

As a world-class platform and system integrator, with a proven track record on delivering complex airborne surveillance solutions, Airborne Technologies presents a multi-mission platform that perfectly fits the end-users´ operational needs.

The Viking Twin Otter Guardian 400 missionized with Airborne LINX is a high-end, multi-role platform that offers strategic ISR capabilities over both sea and land. It is a unique concept of high performance, low operating costs and an outstanding versatility regarding the ISR applications.
GENERAL INFORMATION

With low acquisition and operating costs, exceptional endurance, low speed maneuverability, short take-off and landing from unimproved surfaces including flexible mission architecture, the Guardian 400 is a cost effective solution for 21st century special missions requirements. The aircraft can be quickly re-deployed and adapted from surveillance, transportation, search and rescue, medivac and additional mission profiles providing a low cost, force multiplier as an inviable asset to government and military fleets.

Sharing the same multi-role versatility as the Viking Twin Otter Series 400 Aircraft, the Guardian 400 can be equipped with wheels, floats (straight or amphibious), skis, or intermediate flotation gear, allowing you to arrive on station, leaving the competition on the runway.

AIRCRAFT PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>Std Fuel</th>
<th>Ext Fuel</th>
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</thead>
<tbody>
<tr>
<td>Endurance Time (hrs)</td>
<td>8.7</td>
<td>10.15</td>
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<tr>
<td>Time on Station with 100km transit</td>
<td>6.7</td>
<td>8.05</td>
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<tr>
<td>Range with Maximum Fuel (nm)</td>
<td>983</td>
<td>1,134</td>
</tr>
<tr>
<td>Range with Maximum Fuel (km)</td>
<td>1,821</td>
<td>2,100</td>
</tr>
</tbody>
</table>

*Features include: one workstation with seat, five single seats, one stretcher rack, extended wing tip tanks, and two S.C.A.R. Pods.

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AIRBORNE LINX HIGH-TECH FEATURES

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- 4 Surveillance data recorders
- Tactical radios

*The core element and user interface of Airborne LINX is the Mission Management Unit (MMU), a simple-to-use touch screen, designed for intuitive operation. Airborne LINX reduces the information overflow – meaning more can be achieved with fewer operators.*
EQUIPPED BY
AIRBORNE TECHNOLOGIES

S.C.A.R. – POD – Plug & Play
- Quick install/remove on wing/belly mounted hard points – no airframe modifications required
- Lightweight carbon fiber design – easily transferable to other assets (with provisioning)
- Multiple Sensor Capability (EOIR, RADAR, VIDAR, Hi-Res, EW, etc.)
- ELINT/SIGINT/COMINT sensors
- Satellite and/or Microwave up/down link communication system
- ITAR and non-ITAR versions
- Full EASA/MAA qualification and STC

TACTICAL WORKSTATION
- Fully customizable lightweight carbon fiber construction
- Quick-change base for easy installation and removal
- Integrated mission radio communications
- High definition touchscreen monitors
- Data/Voice/Video Recorder
- Integrated Mission Management Unit (MMU)
- Intuitive hand controller for MCU and SLR camera targeting
- CarteNav AIMS mission system software

HONEYWELL APEX AVIONICS SUITE
- Modernized flight deck
- Night vision compatible
- Synthetic vision compatible

GENERAL INFORMATION
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VIKING TWIN OTTER GUARDIAN 400

AIRCRAFT PERFORMANCE DATA
- Engines Pratt & Whitney PT6A-34.
- 750 shp flat rated to 620 shp
- Propellers Hartzell, HC-B3TN, three bladed
- Maximum Takeoff Weight 14,000 lb 6,350 kg
- Typically Equipped Operating Weight* 8,264 lb 3,748 kg
- Useful Load 5,736 lb 2,602 kg
- Standard Fuel Capacity 3,110 lb 1,757 litres
- Extended Fuel Capacity 3,586 lb 2,026 litres
- Maximum Cruise Speed 182 TAS 337 km/h
- Loiter Speed: 86 IAS 86 IAS
- STOL Takeoff Distance to 50 feet 1,200 feet 366 m
- STOL Landing Distance from 50 feet 1,050 feet 320 m
- Max Endurance Cruise Fuel Burn (10,000 feet) 328 lb/hour 185 l/hr
- Loiter Speed Fuel Burn (5,000 feet) 352 lb/hour 199 l/hr
- Max Cruise Speed Fuel Burn (10,000 feet) 652 lb/hour 368 l/hr
- Std Fuel Ext Fuel Endurance Time (hrs) 8.7 10.15
- Time on Station with 100nm transit 6.7 8.05
- Range with Maximum Fuel (nm) 983 1,134
- Range with Maximum Fuel (km) 1,821 2,100

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