

# Air Satellite Communication

## *Beyond Line-of-Sight Surveillance*



The Diamond DA 42 MPP / SCOTTY Platform

### *Advanced Video & Data Communication*

- › Real time connectivity
- › Beyond line-of-sight
- › Automated reporting capability
- › Store & Forward Video
- › Encryption Compatible

**SCOTTY™**

# SCOTTY™ flies lightweight DA42 MPP



▶ The SCOTTY Group and Diamond Airborne Sensing present a versatile and efficient surveillance solution: the SCOTTY/Diamond DA42 Multi-Purpose Platform (MPP). This twin-engine aircraft has been outfitted with an observation camera and a beyond line-of-sight satcom link.

▶ The fully equipped DA42 MPP operates in all weather conditions and at a wide range of speeds, from a minimum of 76 kts to a maximum of 152 kts (IAS). In monitoring mode, the aircraft can fly for up to 12.5 hours without refueling and it can operate on all variations of jet fuel. In passive surveillance missions, the operating noise of the DA42 MPP is not noticeable in a normal ambient noise level environment when flying at an altitude of 300 meters.



▶ The SCOTTY satcom equipment, weighing only 40kg is installed in the luggage compartment of the DA42 MPP. Completing the system are a mechanically steered high-gain satcom antenna mounted on the fuselage of the aircraft, an under nose turret containing thermal and visible light cameras, and a dual-monitor operator station.

▶ The system offers up to 4 channels of 64 kbps each over Inmarsat, giving the user multiple role capabilities such as simultaneous voice-, data- and video transmissions from air to ground or vice versa. Real time video or data transmissions with a throughput of up to a combined 256 kbps are possible by combining all 4 base channels. The system architecture is already compliant with the future IP over satellite Inmarsat Swift Broadband service for up to 432 kbps. The platform can also be fitted with an RF link for live video when the plane is close to home.



▶ “**Beyond line of sight**” imagery without the need for expensive repeater stations or support infrastructure, integrated into a lightweight platform, has now become reality.