

# BOWMAN AIRBORNE BEYOND-LINE-OF-SIGHT (BABLOS)

*Easy and Reliable BLOS Range Extension for all Bowman Radios  
Proven. Instant. Persistent. All-Terrain. All-weather.*



**Royal Marines  
Special Forces  
Army  
Navy  
RAF**

**Complex Terrain  
Ship-to-Shore  
Ship-to-Ship  
Mountain  
Riverine  
Rooftop  
Swamp  
Jungle  
Desert  
Urban**



The VHF/UHF Bowman radio system is a highly secure, wideband, frequency-hopping radio system presently in service with the British armed forces. It can carry substantial encrypted information including voice, data, GPS etc. However, the high bandwidth, high frequency radio waves required for this capability cannot exploit a ground wave and so need to be airborne. These radio waves cannot bend around natural terrain, so the curvature of the Earth ensures that Bowman is often restricted in range to under 6 miles, unless a high point such as a hill, tall mast or suitable building can be exploited to provide extra radio line-of-sight.

Presently in overseas trials with the Royal Marines, BABLOS consists of a special wide-frequency antenna + coax cable lifted by a small, low-visibility, helium filled Helikite® aerostat that automatically flies to 200ft altitude. This gives ample radio-line-of-sight for the 17 miles BABLOS link-budget, creating a secure encrypted, frequency-hopping range extension to Bowman that is over eight times larger than the ground-based system.

Helikites are the world's only small, high altitude, all-weather aerostat. They are highly reliable and used worldwide by customers such as Royal Marines, British Army, US Air Force and the British Antarctic Survey.

There are no modifications needed to any Bowman radio. Nothing could be simpler. Just plug in the coax cable and release the Helikite. Once launched, the small, tough, all-weather Helikites can remain flying at 200ft for weeks – even completely unattended.

Everything needed, including, Helikite, helium cylinders, flying line, launch pad, ground-anchors, antenna, coax and flying line, can be carried in 3 x 25Kg backpacks and be deployed to 200ft in just ten minutes.

BABLOS can be operated by one person, day or night, from almost anywhere. Fields, forests, mountains, deserts, jungles, rooftops, boats or ships. BABLOS is the only instant, persistent, beyond-line-of-sight, airborne range extension system for Bowman.

**BABLOS  
908 SQ  
MILES**

**BOWMAN  
ALONE  
113 SQ  
MILES**

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