

For Immediate Release: October 2006

**Unmanned Aerial Vehicle (UAV)
performs MIRICLES**

QinetiQ's Zephyr High Altitude Long Endurance (HALE) solar powered Unmanned Aerial Vehicle (UAV) has achieved its longest flight to date during a set of flight trials at the White Sands Missile Range in New Mexico. The surveillance



QinetiQ

aircraft is manned with numerous sensors and QinetiQ selected Thermoteknix' MIRICLE® 110K high performance miniature infrared camera to collect thermal imagery. The MIRICLE® 110K video output now offers 384 x 288 resolution in NTSC and RS170 formats as well as in PAL and CCIR. This gives 44% more pixels when compared to 320 x 240 pixel cameras resulting in a wider field of view for the same focal length lens, or a smaller focal length lens to match the FOV. This leads to smaller and lighter optics and improved FOV to weight ratio, ideal for portable and UAV applications. MIRICLE® is also available as a 640 x 480 unit and both models ship either as OEM cores/engines or as fully built sealed



cameras with a choice of optics. A choice of digital and analog outputs complete the package to meet application needs. Zephyr is an ultra-lightweight electrically powered aircraft, with a wingspan of up to 16 metres but weighing less than 30 kg. The aircraft uses a combination of solar array and rechargeable batteries and, when fully developed, is expected

to operate for months at a time at an altitude above 50,000 feet providing a sustained and persistent earth observation platform. Zephyr flew with MIRICLE® on board at an altitude over 50,000 feet for 18 hours, including 7 hours in the dark.

For further information, please contact:

Thermoteknix Systems Ltd, Teknix House, 2 Pembroke Avenue, Waterbeach, Cambridge, CB5 9QR, United Kingdom

Tel: +44 (0)1223 204000 Fax: +44 (0)1223 204010

Email: sales@thermoteknix.com Web: www.thermoteknix.com

Or in the USA:

14457 NE 16th Place

Bellevue Washington 98007 USA

Tel: +1 425 746 6080 Fax: +1 425 746 4536

Email: sales@thermoteknix.com Web: www.thermoteknix.com