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SELEX S&AS UK Launches New Infrared Detector for Infrared Microscopy

SELEX Sensors and Airborne Systems (S&AS) UK is launching "Wren", a high performance uncooled single element pyroelectric detector for use in infrared (IR) microscopy.

Wren offers design engineers and manufacturers of spectrometer instruments a straightforward and cost effective detector solution for IR microscopy, available with a short lead-time and at a competitive price.

This new generation detector is based on SELEX S&AS grown Deuterated L-Alanine doped Triglycene Sulphate (DLATGS) pyroelectric material, and has an active area of 250µm x 250µm to directly replicate that of existing cooled detector technologies such as MCT, Silicon and InGaAs.

Wren's outstanding advantages over existing detector technologies include

- trouble-free operation without the daily chore of having to maintain a cooling system,
- a broad spectral response,
- no through-life costs.

SELEX S&AS' facility in Southampton developed the original manufacturing process for DLATGS in 1970, and is the leading supplier of these detectors for infrared spectroscopy applications. SELEX S&AS UK has a world wide reputation for providing customers with the best in high-performance and cost-effective technology for infrared detection systems. SELEX S&AS' unique level of expertise has enabled this break-through in detector design and development, which has produced this tiny active area DLATGS pyroelectric detector, the smallest DLATGS detector element available in the market today.

SELEX S&AS UK also manufactures very high performance 2D and linear medium wave and long wave infrared detectors for military thermal imaging and custom programmes using mercury cadmium telluride material technology.

SELEX S&AS UK offers world class Thermal Imaging Systems for air, land and naval systems in both military and civilian applications. SELEX S&AS has the technology and expertise to offer complete solutions in detectors, digital signal processing, optics and software.

Notes to Editors:

SELEX Sensors and Airborne Systems, a Finmeccanica company, is one of Europe's leading defence electronics companies and provides world class capabilities in surveillance, protection, tracking, targeting, navigation & control, and imaging systems. SELEX S&AS brings together SELEX Sensors and Airborne Systems UK and Italy's Galileo Avionica. Some 7,200 people are employed across operations in the United Kingdom, Italy, and the United States.

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