News Release

Cambridge Pixel's Secure-X Software Makes Radar-Camera Sensor Integration Quick and Simple

- *Secure-X software modules enable integrators to cut development time and cost of security applications; GPU-accelerated software video tracker (VTx Server) added to range*
- *Secure-X available as a toolkit for developers or as a ready-to-run surveillance application with source code for extension, localisation and long-term support*
- *Cambridge Pixel to showcase Secure-X at SPIE DSS (Defense, Security and Sensing) on booth 1209 from 6-8 May at the Baltimore Convention Center, Maryland, USA*

CAMBRIDGE, United Kingdom, April 30, 2014 – Cambridge Pixel (www.cambridgepixel.com) a developer of sensor processing and display solutions, has unveiled its Secure-X family of software modules. Secure-X is designed to help those developing radar and camera security solutions to quickly and cost-effectively integrate disparate sensor types into their security surveillance solution and to thereby reduce development time and cost.

Secure-X provides a toolkit of field-proven, best-in-class software building blocks for radar and camera interfacing, processing and display with modules for radar acquisition, processing, scan conversion, tracking of radar and video targets, fusion, recording and display. Secure-X is also available as a ready-to-run surveillance application that integrates radar and video cameras with threat display, recording and target tracking - with optional source code for extension, localisation and long-term support.

David Johnson, Cambridge Pixel's managing director, said: "We are seeing increasing demand for integrated radar and camera surveillance solutions in border and perimeter security, and for asset protection. One of the big advantages of Secure-X is that the customer stays in control as they can buy the 'modules of expertise' they need to support their surveillance solution, or, if required, a complete application."

A recent example of this, according to David Johnson, is engineers in the Kelvin Hughes Surveillance business. They needed software components for their new CxEye™ security display, and with pressure on time and budget turned to Cambridge Pixel for software modules for radar acquisition, display, multi-hypothesis target tracking, fusion, camera control, map display and control functions.

"A key objective with the Secure-X software is to provide software modules that permit integration of disparate sensor types into a processing and display framework," added David Johnson. "Separating the processing and display from the specifics of the hardware allows the best sensor to be chosen for each application with minimal changes to the application software."

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The latest addition to the Secure-X family is the VTx Server, which provides target tracking from camera video. In a typical situation, targets may be automatically acquired from a radar and then passed to the video tracker for frame-by-frame tracking. The video tracker, which is software-based and accelerated with GPU processing, analyses the video data frame-by-frame to determine the motion of a target of interest. The output may be used to display a target position or move a camera to keep a target of interest in the field of view.

The Secure-X software family is based on components from Cambridge Pixel's established SPx and SPx-AV software modules, which are widely deployed in military and commercial applications, including security and C2 systems. These modules are provided as C++ classes that can be built into a Windows or Linux application. Secure-X interfaces to many standard radars including Kelvin Hughes, Terma, Blighter, Navtech, JRC, Simrad and Raytheon as well as to video and related sensors.

Cambridge Pixel's engineering team has decades of experience of developing complex radar processing and display systems for naval, air traffic control, vessel traffic, Electronic Chart Display and Information Systems (ECDIS), security, surveillance and airborne radar applications. Cambridge Pixel's technology has been implemented in mission critical applications with companies such as BAE Systems, Barco Defense, Blighter Surveillance Systems, DRS, Exelis, Kelvin Hughes, Lockheed Martin, Navtech Radar, Raytheon, Samsung Thales, Tellumat and Toshiba.

Cambridge Pixel will showcase its Secure-X software at SPIE DSS (Defense, Security and Sensing) on booth 1209 from 6-8 May at the Baltimore Convention Center, Maryland, USA.

For more information on Cambridge Pixel's Secure-X software, please visit www.cambridgepixel.com or call: +44 (0) 1763 852749 or email: enquiries@cambridgepixel.com.

A datasheet/brochure on Secure-X is available for download at:
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To accompany this news release, a high resolution photograph is available at:
http://www.cambridgepixel.com/news/

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About Cambridge Pixel (www.cambridgepixel.com)

Cambridge Pixel is a UK-based specialist developer of sensor processing and display solutions including primary radar interfacing, processing and display components for military and commercial radar applications. It is a world-leading supplier of software-based radar tracking and scan conversion solutions through its modular SPx and Secure-X software and HPx hardware product range. Based near Cambridge in the UK, the company operates worldwide through a network of agents and distributors.

Media contact:

Martin Brooke (for Cambridge Pixel)
Martin Brooke Associates
Tel: +44 (0) 1223 882174
Email: martin@mba-pr.com