

Cambridge Pixel's VSD Security Software Aids Threat Detection at Airports & Coastal Facilities

- *VSD software application integrates data from multiple radars and cameras, features radar and video tracking technology, track fusion, radar slew-to-cue and support for ship (AIS) and aircraft (ADS-B) transponder technology*

CAMBRIDGE, United Kingdom, January 20, 2016 – Cambridge Pixel (www.cambridgepixel.com), an award-winning developer of radar display and tracking subsystems, has unveiled a security and surveillance display application, called VSD, designed to improve target detection at airports, airbases and coastal facilities such as harbours and naval bases.

The sensor-independent VSD software runs on a standard Windows PC and integrates and displays data from multiple radars and up to 16 daylight/thermal cameras. It also incorporates radar/video tracking technology, track fusion as well as support for ship (AIS) and aircraft (ADS-B) transponders to filter out authorised targets and thereby speed threat detection.

David Johnson, CEO of Cambridge Pixel, said: "VSD has been designed as an intuitive front end to a sophisticated multi-sensor surveillance system with key features including automatic radar slew-to-cue, video tracking, and transponder technology built-in."

VSD's ability to combine or fuse primary radar tracks with secondary data from transponders fitted to commercial/military aircraft (ADS-B or Automatic Dependent Surveillance – Broadcast) and marine vessels (AIS or Automatic Identification System) is an important feature in Cambridge Pixel's software.

"This capability allows an operator to quickly differentiate between real threats and legitimate movements," added David Johnson. "This is essential to avoid real incursions becoming 'lost in the noise', particularly the growing 'backdoor' threat posed by terrorists, smugglers and pirates at commercial airports and seaports as well as at military airbases and harbours."

A key feature of the VSD application is its ability to control a camera to follow a selected radar track automatically. This capability is known as slew-to-cue and is further improved in VSD by the built-in video tracking function. Video tracking uses analysis of the camera video imagery to determine the target motion. Once a track has been designated within the radar display, video tracking can provide more accurate camera positioning for enhanced slew-to-cue.

“Video tracking is significantly more accurate than radar tracking, due to the higher update rate of at least 30fps and superior resolution of the sensors,” added David Johnson. “This enables VSD to predict and follow the target’s movement and maintain it in the video frame.”

VSD has been designed with touchscreen devices in mind and provides a clear display of the camera video in a main window, with picture-in-picture and thumbnails of all available video feeds for rapid selection. The radar portion of the display provides a geographic overview of the situation, showing all of the available radar videos, tracks and secondary data, overlaid on a clear tiled map.

Cambridge Pixel's technology is used in naval, air traffic control, vessel traffic, commercial shipping, security, surveillance and airborne radar applications.

For more information about Cambridge Pixel’s VSD software or other products, please visit www.cambridgepixel.com or call: +44 (0) 1763 852749 or email: enquiries@cambridgepixel.com.

Media photo – <http://www.cambridgepixel.com/news/>

-

VSD videos:

Coastal security: <http://cambridgepixel.com/videos/Introduction-to-VSD/VSD.html>

Airport security: <http://cambridgepixel.com/videos/VSD-airport/VSD-airport.html>

-ends-

About Cambridge Pixel (www.cambridgepixel.com)

Founded in 2007, Cambridge Pixel is an award winning developer of sensor processing and display solutions including primary and secondary 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 software, and HPx hardware product range. Based near Cambridge in the UK, the company operates worldwide through a network of agents and distributors. In 2015, Cambridge Pixel received a Queen's Award for Enterprise in International Trade for 'outstanding overseas sales growth over the last three years'.

Media contact:

Martin Brooke
Martin Brooke Associates
Tel: +44 (0) 1223 882174 (office)
Tel: +44 (0) 7776 135402 (mobile)
Email: martin@cambridgepixel.com