News Release

CAMBRIDGE PIXEL
SENSOR PROCESSING & DISPLAY SOLUTIONS

Cambridge Pixel Radar Modules Supplied to SOFRESUD for Oil Rig Security in Gulf of Guinea

- *Cambridge Pixel software integrated with SOFRESUD's VMAS system to enhance effectiveness of hostile target detection in region where piracy and maritime threats can drastically jeopardise production*

CAMBRIDGE, United Kingdom, March 31, 2015 – Cambridge Pixel (www.cambridgepixel.com), a leading provider of primary radar display and tracking subsystems, has supplied its Secure-X radar modules to maritime surveillance and fleet monitoring specialists SOFRESUD (www.sofresud.com) for an oil field security application in West Africa.

The software modules – for radar acquisition, tracking, scan-conversion and display – form part of a maritime security solution developed by SOFRESUD for Total Nigeria in the Gulf of Guinea, a vast maritime zone that curves along the west coast of Africa from Gabon to Liberia.

SOFRESUD's Vessel Monitoring and Alert System (VMAS), an advanced web-based client-server application, manages all maritime activity over the four offshore fields which are operated by Total Nigeria and cover an area of more than 10,000 square kilometres. This includes the management of dozens of assets such as oil rig platforms and supplies, and the continuous monitoring of more than 500 vessels including oil tankers, using a combination of radars and AIS (Automatic Identification System) sensors.

SOFRESUD's engineers at its headquarters in La Seyne-sur-Mer, France, approached Cambridge Pixel as they needed to connect their VMAS system to existing radars to enhance field protection against pirates and other small and non-cooperative hostile targets. SOFRESUD wanted an open and modular solution that was compatible and easy to integrate with the web-based client-server architecture of the VMAS system.

Cambridge Pixel supplied a number of 'modules of expertise' including software for radar acquisition and display, multi-hypothesis target tracking and scan-conversion. Together, the software allowed SOFRESUD to interface to the existing radars from Raytheon and Furuno, extract targets and present a display of tracks alongside scan-converted radar.

Mr Bernard Alhadef, president of SOFRESUD, said: "Cambridge Pixel's Secure-X range of best-in-class flexible software modules provided the perfect solution and enabled our engineers to quickly and cost-effectively integrate the disparate sensors into our VMAS surveillance solution, thereby reducing development time and cost. Furthermore, Cambridge Pixel's engineering team were highly responsive during all phases of the project and contributed to ensuring that we delivered a working solution to our customer on schedule."

Dr David Johnson, Cambridge Pixel's CEO, said: "We are delighted to have been selected to provide our software to SOFRESUD for this critical surveillance operation in the Gulf of Guinea, which is one of the world's piracy hotspots. Our software will make it possible to connect the different radars into the VMAS system and to enhance field protection by

detecting and tracking small non-cooperative targets and thereby minimising production delays."

Cambridge Pixel's Secure-X family 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. In addition to supplying software modules for custom integration, Cambridge Pixel is also able to provide complete display applications that integrate radar, camera video and graphics for threat detection, recording and monitoring.

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 types of radar including Kelvin Hughes, Furuno, 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.

For more information about Cambridge Pixel's solutions, please visit www.cambridgepixel.com or call: +44 (0) 1763 852749 or email: enquiries@cambridgepixel.com.

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About SOFRESUD (www.sofresud.com)

SOFRESUD designs, develops, installs and maintains naval defence and maritime surveillance equipment and systems. With 15 years of experience in defence against maritime threats, SOFRESUD has developed a range of equipment and solutions for surveillance and self-protection of offshore maritime platforms. Its patented advanced fleet management, alert and recording system – Vessel Monitoring and Alert System (VMAS) - is used to protect maritime facilities, such as oil & gas fields. The company has supplied its Quick Pointing Device (QPD) target identification system to major navies in France, Italy, the UK, Norway, Saudi Arabia, South Korea and Malaysia as well as to NATO. SOFRESUD also provides state-of-the-art solutions to protect merchant ships against malevolent acts and to prevent maritime assaults from pirates. SOFRESUD is based in La Seyne-sur-Mer (near Toulon) in the south of France.

About Cambridge Pixel (www.cambridgepixel.com)

Cambridge Pixel is a specialist 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 and Secure-X software, and HPx hardware product range. 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, Saab ATM, Samsung Thales, SOFRESUD, Tellumat and Toshiba. Based near Cambridge in the UK, the company operates worldwide through a network of agents and distributors.

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