

Cambridge Pixel Supplies Radar Capture Hardware and Display Software to Cemtrol

- *Cemtrol uses Cambridge Pixel's HPx-200e PCI Express (PCIe) radar input card and versatile SPx software library to add comprehensive radar acquisition and display capability to its new multi-function Radar Display Console*

CAMBRIDGE, United Kingdom, April 14, 2016 – Cambridge Pixel (www.cambridgepixel.com), an award-winning developer of radar display, tracking and simulation subsystems, has supplied radar acquisition hardware and scan conversion software to Cemtrol Inc. (www.cemtrol.com), a design and manufacturing company with many years of experience in rugged and integrated control and monitoring systems.

Cemtrol is using Cambridge Pixel's products in its Radar Display Console (RDC). The multi-function console is designed for use in many different applications including C4I, civil air and maritime traffic control applications and other installations. It includes two large monitors with optional touchscreen capability and a 10.4" multi-touch display.

Cemtrol uses Cambridge Pixel's HPx-200e PCI Express (PCIe) radar input card and SPx software library to add a comprehensive radar acquisition and display capability to the console. One of the first customers to take delivery of Cemtrol's new RDC is a major international defence organisation.

Commenting for Cemtrol, Dror Schnitkes, CEO, said, "We selected Cambridge Pixel because of their unparalleled background and experience in all aspects of radar processing and display. They were able to provide customised training for the engineers developing our console software application alongside high-quality product documentation. In addition, the company provided responsive and detailed support during our integration activity, culminating in a successful demonstration to our most recent customer."

David Johnson, CEO of Cambridge Pixel, said, "We were delighted to work alongside Cemtrol to bring a radar capability to their console. They have benefitted from the highly modular approach that characterises our software library, and were able to select exactly those components for radar processing and display that were necessary to implement their required features, with a clear route to adding extra functionality if future applications of the radar console demand it. Furthermore, the flexible design of our radar input card meant that Cemtrol could easily integrate it with their own radar azimuth interface hardware."

Cambridge Pixel's HPx-200e PCI Express (PCIe) radar input card supports capture of analogue and digital channels from many different radar types. Radar video is digitised at high resolution, with flexible mixing of the two analogue inputs and digital inputs. Used with the company's comprehensive SPx software library, radar video can be processed using algorithms such as dynamic thresholding, sensitivity time control (STC), fast time constant (FTC) and clutter suppression before being subjected to plot extraction and advanced multi-hypothesis tracking.

Cambridge Pixel's SPx software library also provides a rich array of methods for presenting multiple channels of primary radar video on the operator display. It allows the customer to mix multiple independent channels of scan-converted video with his own display layers, including maps and symbology, to create an advanced user interface where zooming and panning are synchronized across all layers. Multiple radar display formats, including plan position indicator (PPI), A-Scan and B-Scan, are fully supported.

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 products, please visit www.cambridgepixel.com or call: +44 (0) 1763 852749 or email: enquiries@cambridgepixel.com.

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About Cemtrol, Inc. (www.cemtrol.com)

Cemtrol is an established design and manufacturing company based in Anaheim, California. The company has developed globally over the years by offering effective solutions in the areas of rugged and integrated control and monitoring systems for industrial and other rigorous environmental markets. The company also offers a wide array of solutions for Emission Monitoring Systems and Data Acquisition, among others.

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'.

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