

SP Devices launches the world's first 14-bit resolution digitizer for Optical Coherence Tomography (OCT) applications

SP Devices, an e2v company, has launched the ADQ14OCT, the first 14-bit digitizer for Swept-Source (SS) Optical Coherence Tomography (OCT) that offers unrivalled noise and distortion performance.

Built on SP Devices' original 14-bit digitizer, the ADQ14OCT has been optimised for the SS-OCT market through variable clock input compatibility of 10-1000 MHz and the addition of embedded signal processing functions in the Field-Programmable Gate Array (FPGA). These changes facilitate a simplified system design that increases overall system performance to match the most challenging measurement situations.

The ADQ14OCT utilizes the longest embedded Fast Fourier Transform (FFT) in OCT digitizers and sustains streaming of up to one billion captured wavelengths per second, delivering the market's highest image resolution for SS-OCT.

Per Löwenborg, Chief Technology Officer at SP Devices, commented, "We're very excited to unveil a world-leading solution for variable clocking applications and the ADQ14OCT demonstrates our drive to meet the exacting requirements of our customers."

Available with 8 lanes, Gen 2 PCI-e interfaces for high-speed data transfer, as well as with USB 3.0 interface for compact designs. The ADQ14OCT is the first USB SS-OCT digitizer to enable compact instrument designs, and is the most advanced medical imaging digitizer available on the market today.

Visit www.spdevices.com/index.php/adq14oct to find out more.

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Notes to Editors: Bringing life to technology, e2v partners with its customers to improve, save and protect people's lives. e2v's innovations lead developments in automation, healthcare, communications, safety, discovery and the environment.

e2v employs approximately 1750 people worldwide, has design and operational facilities across Europe, North America and Asia, and has a global network of sales and technical support offices. e2v has annual sales of GB236M as at 31 March 2016 and is listed on the London Stock Exchange. For more information www.e2v.com.

e2v acquired Signal Processing Devices on 25 January 2016 for up to US\$18 million (£12 million), for more information on the acquisition, www.e2v.com/news/acquisition-of-signal-processing-sp-devices-sweden-ab-2/.