Changing the global OCT industry landscape, B&A has released its third generation OCT (SS-OCT) solutions

With the continuous hot market of innovative medical devices, B&A focuses on the research and development of OCT related products relying on its own technology accumulation.

This year, B&A Technology has completed the commercial development of the third generation OCT (SS-OCT) full set of solutions, including high speed swept source, k-clock, DAC module, MZI BOX, etc.

The swept source is based on advanced electrically pumped VCSEL (Vertical Cavity Surface Emitting Laser) technology. An attractive laser for SS-OCT applications. It takes advantage of a number of features intrinsic to VCSELs to deliver best in class performance, including long coherence length, variable scan speed and low signal noise. Based on the excellent VECSEL scanning principle, the scanning range is up to 50nm, the scanning rate is up to 300kHz, and the coherent length is greater than 100mm.

DAQ-2X1000-12/14, a high-speed data acquisition board with dual-channel 1GHz.It is a special data acquisition card launched by B&A specifically for the application of OCT industry. The board uses large-capacity and ultra-high-speed FPGA chip to complete high-speed AD acquisition, data processing, and data transmission of analog signals. And the board integrates relevant algorithms for sweep OCT industry applications.
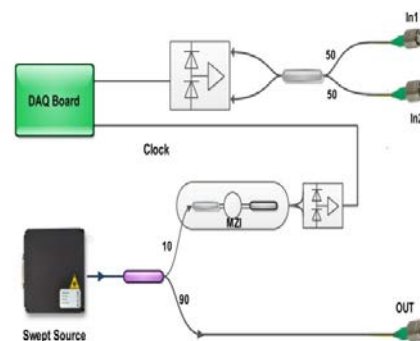
MZI Box is a balanced optical detection module of InGaAs series, which integrates two matching high linearity analog PIN detectors and low noise broadband cross-resistance amplifiers. It has the characteristics of high gain, high sensitivity, DC coupling output and high common mode rejection ratio, which can effectively reduce the common mode noise of input light and improve the signal-to-noise ratio of the system.

As an enterprise with a strong sense of social responsibility, B&A will continue to provide more advanced technologies and medical devices to help the vigorous development of the medical industry.