



Sabeus ships AG-1 DFB laser with multi variable control system for dynamic signal feedback

CALABASAS, Calif., 19 October 2006. Sabeus Inc. has announced the availability of the AG-1 distributed feedback (DFB) laser. The AG-1 is the first Sabeus product to implement the company's patent-pending Multi Variable Control System (MVCS) for dynamic signal feedback. MVCS allows the AG-1 to achieve 100 times the signal precision of comparable semiconductor diode lasers without the bulk, complexity and cost of laser isolation systems. The AG-1 is the latest addition to the company's line of Precision Advantage optical components.

The AG-1 laser with MVCS incorporates multiple feedback loops to deliver an effective linewidth of 10-400kHz and frequency stability of +/-5MHz for approximately two orders of magnitude improvement over today's state-of-the-art semiconductor lasers. In addition, the AG-1's narrow linewidth offers very high signal coherency for accurate measurements over long distances. The AG-1 is tunable across C & L bands with a tuning range of 3nm and a minimum step size of 0.5 pm.

Military/homeland security surveillance applications benefit from the AG-1's immunity to environmental interference and its ability to be deployed in harsh environments on land, sea, and in the air. The AG-1 is the ideal source laser for acoustic demodulators that sense pressure waves in the water and ground for a wide variety of surveillance applications. Typical AG-1 applications are in harbor security, perimeter security, towed arrays, and fixed arrays. The AG-1 will accelerate the deployment of fiber-optic surveillance systems that previously were deemed too expensive or too unreliable for DOD service.

By precisely measuring small deviations in magnetic media the AG-1 can serve as a highly accurate and tunable source laser for optical test systems. At roughly half the cost of gas lasers, the AG-1 can usher in a new generation of affordable, ultra-precise test and measurement systems to improve a wide variety of manufacturing processes, including wafer deposition and magnetic systems.

The Precision Advantage AG-1 laser is now available directly from Sabeus, or its worldwide network of distributors for design into OEM systems. Pricing starts at \$15,000. Sabeus will deliver Field Sense sensor systems with the AG-1 beginning in early 2007.

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