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JMAR SHOWCASES MODULAR BRITELIGHT SYSTEM AT PHOTONICS WEST 2005 EXHIBITION

San Diego, CA – January 25, 2005 – JMAR Technologies, Inc. (Nasdaq: JMAR) is showcasing its Modular Britelight™ Solid State Laser System at the Photonics West 2005 Exhibition from January 25 to 27, 2005 at the San Jose Convention Center in San Jose, CA. The Britelight™ System is a high-performance laser source for researchers and engineers in academic, homeland security, military and manufacturing settings requiring either a point design laser or a versatile laser system capable of future augmentation.

The Modular Britelight™ System is gaining traction within its target markets. A Korean university recently purchased a basic configuration of the system with the option to upgrade to higher power levels during their next budget cycle. The Korean contract follows the August 2004 delivery of JMAR's Britelight™ System to the Lawrence Livermore National Laboratories (LLNL) to condition laser crystals used by the National Ignition Facility, a 192-beam laser system under construction at LLNL. The Britelight™ System has also demonstrated success in increasing bio-detection throughput when used with an optical parametric oscillator (OPO) as a part of an SBIR research project by OPOTEK, Inc.

“By offering our proprietary Britelight™ technology in a modular design, we are enabling potential users to choose a laser source solution that precisely meets their current requirements – with the option of building out the system as needs and circumstances change,” said Ronald A. Walrod, CEO of JMAR. “Photonics West gives us the opportunity to introduce this modular system to our target customers in research, security and manufacturing, while engaging in an open exchange of ideas with others in the industry.”

Sponsored by the Society of Photo-Optical Instrumentation Engineers (“SPIE”), Photonics West is the largest optics and photonics event in the world. Photonics West 2005 will bring together nearly 800 exhibitors from around the globe to showcase a wide range of products and services including optics, lasers, biomedical optics, optoelectronic components, and imaging technologies.

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JMAR SHOWCASES MODULAR BRITELIGHT TECHNOLOGY AT PHOTONICS WEST EXHIBITION/2

About Britelight™

JMAR's Britelight™ Modular Solid State Laser System provides a unique combination of high brightness, short pulse duration, and exceptional beam quality in a modular, compact design. The product also offers research scientists and manufacturing engineers a versatile laser source that can be used for a multitude of applications, including spectro-chemical analysis, nanotech scale fabrication, microscopy and soft X-ray source generation.

About JMAR

JMAR Technologies, Inc. is a leading innovator in the development of laser-based equipment for imaging, analysis and fabrication at the nano-scale. The Company is leveraging over a decade of laser and photonics research to develop a diverse portfolio of products with commercial applications in rapidly growing industries while continuing to provide support for the U.S. Government's Defense Microelectronics Activity (DMEA) semiconductor fabrication facility. JMAR is targeting the nanotech, bioscience and semiconductor industries with its Britelight™ Laser; Compact X-ray Light Source; X-ray Microscope - for 3D visualization of single cells and polymers- and its X-ray Nano Probe - enabling interaction, analysis and modification at the nano-scale. JMAR also maintains strategic alliances for the development of BioSentry™ and READ - biological and chemical sensors for homeland security, environmental and utility infrastructure industries.

This news release contains certain "forward-looking statements." Forward-looking statements are based on current expectations and assumptions and are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified, and many of which are beyond the Company's control. Actual results could differ materially from these forward-looking statements as a result of a number of factors, including the failure of new product technology to perform as predicted, competition from alternative technologies, uncertainties as to the size of the market, cost and margins, failure to obtain market acceptance, current or future government regulations affecting the use of BioSentry products, the lack of availability of critical components, the degree of protection from future patents, and other risks associated with the development or acquisition of new products or technologies and those risks detailed in the Company's 2003 Form 10-K and third quarter Form 10-Q filed with the SEC. Given these risks and uncertainties, investors are cautioned not to place undue reliance on such forward-looking statements and no assurances can be given that such statements will be achieved. JMAR Technologies, Inc. does not assume any duty to publicly update or revise the material contained herein.