



Elbit Vision Systems wins an Important Order Incorporating Phased Array Technology

Order valued in excess of \$0.8 million

Qadima, Israel – October 16, 2008 - Elbit Vision Systems (OTCBB: EVSNF) today announced that it won a strategically important order for a weld inspection system based on phased array technology, in partnership with a well-known supplier of phased arrays instrumentation.

Phased array technology is an advanced type of ultrasound technology, used primarily in medical and non-destructive testing applications. The ultrasonic beam can be swept like a search-light through the object being examined. This is in contrast to conventional, single element ultrasonic probes, which only allow a pulse from the element in a line perpendicular to the surface of the material under test. While more expensive, phased array is a faster and more accurate technology to for inspection applications.

David Gal, CEO and Chairman of the Board, “Together with our partner which is providing this advanced technology, we have invested much time and resources in its integration with our systems, and our efforts are beginning to pay off. There are a significant range of applications which benefit from the use of phased array technologies for which we are now able to provide a solution. We believe that this order opens up many new doors for us.”

About Elbit Vision Systems Ltd. (EVS): www.evs-sm.com

EVS offers a broad portfolio of automatic State-of-the-Art Visual and Ultrasonic Inspection Systems for both in-line and off-line applications, and quality monitoring systems used to improve product quality, safety, and increase production efficiency. EVS' systems are used by over 600 customers, many of which are leading global companies. The headquarters, manufacturing and R&D of EVS are all located in Israel. A worldwide Sales and Service network supports markets as well as systems already installed, in Asia, Europe, Africa, Australia and the Americas.

Safe Harbor:

This press release contains forward-looking statements. Such statements are subject to certain risks and uncertainties, such as market acceptance of new products and our ability to execute production on orders, which could cause actual results to differ materially from those in the statements included in this press release. Although EVS believes that the expectations reflected in such forward-looking statements are based on reasonable assumptions, it can give no assurance that its expectations will be achieved. EVS disclaims any intention or obligation to update or revise any forward-looking statements,

which speak only as of the date hereof, whether as a result of new information, future events or otherwise. EVS undertakes no obligation to update forward-looking statements to reflect subsequently occurring events or circumstances.

Investor Relations Contact

Ehud Helft / Kenny Green

GK Investor Relations

Tel: (US) 1-646 201 9246

(Int'l) +972-3-607-4717

info@gkir.com

Company Contact

Yaron Menashe, CFO

EVS

Tel: (Int'l) +972-9-8661-601

aron@evs-sm.com