



Leaf-Sen Irrigation Systems, Ltd. was founded in 2000. Since its inception Leaf-Sen has developed a revolutionary irrigation controller utilizing state-of-the-art technology. The companies headquarter is in Kibbutz Givt Hayim Ichud.

The Leaf-Sen product is an **innovative irrigation controller**, triggered by a unique leaf-thickness-sensor that accurately and continuously assesses leaf turgor. This information is monitored and processed by the irrigation controller, and translated into an irrigation regime that **applies water as a real time reaction to incipient water stress**.

More than 12 years of intensive research has demonstrated that the **Leaf-Sen** system leads to significant savings in water and fertilizer consumption and at the same time provides a tool for improving both yield quantity and quality.

A significant difference in the Leaf-Sen product, as opposed to other micro-irrigation systems, which at best utilize sensors that are able to sense variables external to the plant, is the use of the leaf thickness sensor. External indicators provide only delayed, indirect estimates of plant water status. Using **real time** information from the plant insures a rapid response to incipient stress.

The Control Module is designed to connect to existing standard irrigation controllers, and impose upon them the Leaf-Sen irrigation regime. However, with additional hardware the Leaf-Sen Control Module is easily upgraded to a stand-alone control system.

The Leaf-Sen irrigation concept has been researched with many crops in commercial conditions. Consistent results have been verified by statistically significant data analysis.

Leading members of the companies team are:

Adv. Avner Frank serves as a Managing Director.

Prof. Ben-Ami Bravdo, a shareholder and entrepreneur, is a world authority on plant physiology and serves as Chief Scientist.

Crop	Water Savings	Addition to Yield
"Sweetie" Grapefruit	40%	15%
Shamouti Oranges	40%	12%
Avocado	20%	5%
Corn	24%	5%
Cotton	20%	5%
Tomatoes	35%	21%
Peppers	60%	5%
Grapes	33%	6%

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