



December 15, 2009
Stanley Electric Co., Ltd.

**Cultivating plants with LED lighting
Stanley develops energy- and space-saving cultivation
unit jointly with Taisei Corporation**

Stanley Electric Co., Ltd. (Head Office: Meguro-ku, Tokyo; President: Takanori Kitano) announced today the development of a completely enclosed cultivation unit using thin LED lighting units, jointly with Taisei Corporation (President & CEO: Takashi Yamauchi.)

Plant factories have recently attracted attention and been evaluated as a means to add value to crops because they experience less pest damages due to indoor cultivation, pesticide-free and enables stable production throughout the year. In addition, while they offer efficient use of idle land and facilities owned by companies, development and sales of cultivation equipment have more recently been considered as a source of new business. At present, however, no cultivation equipment suitable for prototyping and R&D is available in the market, which has served as an impediment to decision making for commercialization.

Taking this into consideration, Taisei Corporation starts to sell small-sized cultivation units on a preorder only basis for trial production of sample vegetables by companies and organizations considering full-scale launch of plant factories and associated business. In developing the units, the company adopted a thin planar light source using LEDs jointly developed with Stanley Electric, realizing volume efficiency of about 1.5 times as much as that of conventional units as well as improved energy consumption. Thanks to Stanley Electric's light distribution technology and thin design cultivated through its ample experience in automotive lighting lamps and backlight for LCDs, the LED light sources are very thin and highly moisture-proof.

Taisei Corporation plans to supply this unit to customers currently in contract negotiations about various types of transactions covering multiple fields as well as companies and organizations that are studying not only management of plant factories but also entry into associated markets. In addition, the company takes advantage of the unit as a tool for plant factory consulting business it has engaged in order to promote further superiority in the plant factory market.

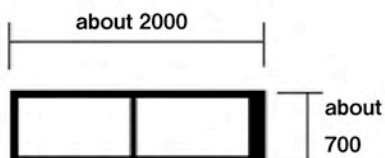
Specifications of the cultivation unit (subject to change without notice)

Size: 2,000mm (L) x 700mm (W) x 2,100mm (H)

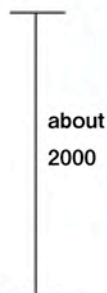
Features: Can operate with AC supply (outlet) only. No water work required. Can easily be installed in such spaces as offices and showrooms.

Miscellaneous : Liquid fertilizer and water to be fed once a week or so, using tap water and polyethylene tanks.

Delivery: About one month after order placement
As an option, a model to be connected to water supply/drainage systems and using the hydroponic controller is also available.



[Cultivation unit]



[New type light source]