

Crop Science

Crop science is concerned with the scientific approaches that serve to enhance and maintain the quality of crops. Plant related factors are as essential to effective crop productivity as the quality of soil. The purpose of crop science is to exemplify how plants utilise primary inputs such as water and solar energy, and to thus provide methods and practices that serve to facilitate successful irrigation scheduling.

This section comprises of a wide variety of equipment that enable the user to effectively and efficiently monitor, test, and manipulate samples. This will in turn, serve to ensure that a particular variety has the best possible chance to survive and flourish in a given environment and to ultimately produce optimum yields.

Plant Physiology is physiological research which comprises a study of all kinds of processes taking place in growing plants or their environment. The following section contains a range of quality equipment for carrying out the principle physiological determinations on growing plants from the analysis and prevention of disease and insect damage, to growth, and the extent to which plants utilise and assimilate nutrients, water and gases.

General Survey

Soil Science

Agrometeorology

Hydrology & Groundwater

Crop Science

Seed Technology

Laboratory Chemical Analysis



Portable Leaf Area Meter

One of the most popular leaf area meters on the market. This instrument consists of a high speed scanner and a scan board with built-in data logger, display, function keys, and batteries.

To measure a leaf, simply lift the film, place the leaf on the board, and slide the scanner over the board. The leaf area, length, width, perimeter, ratio, and shape factor are all measured at the same time. The unit comprises of a white backplate with guide rails which eliminates lateral leaf movement whilst scanning. A clear film on the back plate allows for the measurement of tender leaves, and the unit can also be used on leaves that are still attached to the plant. The device comes complete with internal batteries, battery charger, communication software, one additional transparent film and an operating manual.

- A high resolution of 0.025mm²
- Non-destructive measuring
- Built-in data logger stores 8000 data sets
- Transfers data to computers or printers



Catalogue No	AG51-020
Scanner:	118mm wide, with over 1200 scan points
Measuring Width mm:	150
Measuring Length mm:	360
Resolution, mm ² :	0.025
Memory size:	8000 Measurements
Voltage:	7.2 volt rechargeable
Weight, kg:	1.8
Dimensions, mm:	381 x 254 x 25

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