



Volumetric Spore Trap

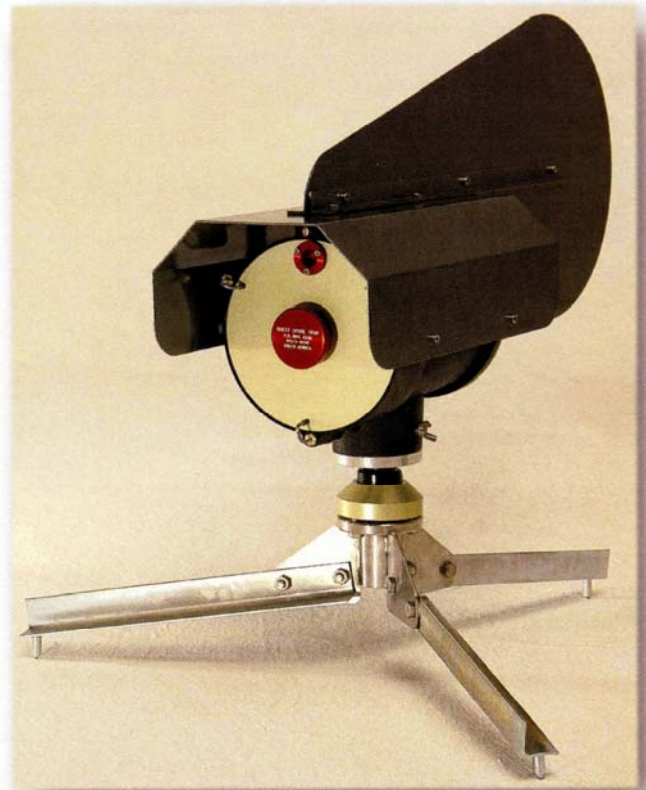
Airborne particle monitor

Introduction

The Volumetric Spore Trap (VST) is an accurate and rugged field laboratory instrument to monitor the presence of airborne particles such as fungal inoculum or pollen. Information obtained can be applied to determine the theoretical inoculum load available to cause new infections by plant pathogens that are mainly disseminated through airborne spores, e.g. *Guignardia citricarpa* (casual agent of Citrus Black Spot).

Operation

Airborne particles are drawn in through the unit and are impacted on an adhesive coated disk, which is marked with hourly increments for determining the particle concentration versus time. The disk rotates slowly to show a time-lapse view. Both 8-day and 2-day monitoring disks are available and the machine changes modes via an external switch. A microprocessor in the unit ensures accurate rotation of the disk.



Set-up

When used in the field, the VST is mounted on a tripod and rotates freely to follow the wind direction (mounted ball bearings with minimum resistance). Electrical slip rings ensure that full 360 rotation is possible. A gimball-mount allows the device to be adjusted level. An optional solar panel and secure battery box can also be provided.

Main features

- 8-Day or 2-Day monitoring capability
- Carry case supplied for the monitoring disks to keep samples safe
- Interface with standard microscope mounts for viewing of trapped particles
- Operates from a solar panel for remote locations, or mains power
- Vandal resistant battery box with various mounting options
- Three to five day battery backup reserve under low light conditions
- Field proven in harsh conditions over many years
- Proudly manufactured to top engineering standards



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