Plant Root Analysis System

optional

Introduction:

Root analysis system is based on image recognition technology, it is professionally used for root analysis of plants after washing the roots in vitro. It has the characteristics of convenience, efficiency and high accuracy, which can improve the work efficiency of practitioners, reduce labor costs.

Features:

∗ Hardware precision: High-resolution dual-light source scanning delivers clear, reflection-free imaging.
The tray design prevents root overlap.

∗ Comprehensive analysis: Automatically measures dozens of parameters including root length and diameter.
Supports topological classification and color analysis with accurate data.

∗ High efficiency & ease of use: One-click scanning and analysis, supports batch processing, ideal for agricultural and ecological research applications.

Technical Parameters:

Model	RS-RIAS
Power Supply	AC100~240V, 50/60Hz
Optional Accessory	Computer
Package Size(W*D*H)	576*297*118mm
Gross Weight	8kg

Overall Analysis Parameters:

Model	RS-RIAS	
Root Tip	Number: The total number of root tips, equal to the number of termination points	
	Range	0~1000
	Accuracy	Error<5%
Root System	Length: Total root system length, including main root and secondary roots	
	Range	0~10000mm
	Accuracy	Error<3.65%
	Average Diameter: The average diameter of the root system	
	Range	0~20mm
	Accuracy	Error<0.04%
	Projected Area: The projected area of the root system as a whole	
	Range	0~200000mm²
	Accuracy	Error<4.02%
	Surface Area: The overall surface area	
	Range	0~1000000mm²
	Accuracy	Error<3.75%
	Volume: Overall volume	
	Range	0~2000000000mm³
	Accuracy	Error<3.82%

Leaf Temperature Gap Meter

Features:

∗ Small size, easy to carry.

∗ LCD display, friendly man-machine interface.

∗ Reasonable mechanism, accurate measurement, simple use, good stability and maintenance free.

∗ Perfect power management scheme, it will shut down automatically when there is no key operation for a long time.

Technical Parameters:

Model	LTG-A
Measuring Range	0℃~60℃
Resolution	0.1 ℃
Reaction Time	< 3 seconds
Measurement Error	±0.5℃
Linearity	Maximum deviation of 1%
Storage	SD card storage(2GB)
Battery	4.2V rechargeable lithium battery
Power Supply	110V~240V, 50/60Hz
Working Temp	0℃~50℃; 0%~85% relative humidity, no condensation
Package Size	270*210*140mm
Net Weight	0.5kg
Gross Weight	1kg