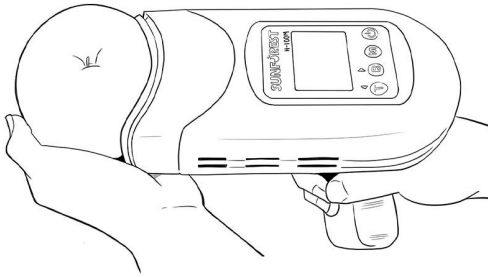


Portable Non-Destructive Fruit Quality Meter

Ideal for Preharvest Ripeness Judgement & Postharvest Quality Inspection



The SUNFOREST H-100 series is a range of field portable NIR spectrometer that can non-destructively measure internal quality of fruits such as Brix, Dry Matter, Moisture, Browning, etc. The H-100 series can be widely used from orchard to fresh market as a useful tool determining produce quality at every application. It could provide very simple and rapid bulk testing, helping growers to determine when to harvest on orchard and also allowing supply chains to carry out import inspections.



SUNFOREST H-100 Series



H-100C

Mandarin, Kiwifruit, Avocado,
Plum, Potato, Corn, Tomato



H-100F

Apple, Pear, Peach, Mango,
Persimmon, Citrus, Grape



H-100M

Melon, Mini-watermelon,
Pineapple

and many more commodities....

Specifications

Model No.	SUNFOREST H-100C/F/M
Sensor Type	Enhanced CMOS Spectrometer (640-1050nm)
Spectral Resolution	20nm (FWHM) max.
Spectral Sample Size	2.3nm
Light Source	Halogen lamp
Measurement	SSC(Brix), Dry Matter, Moisture, etc
Measurement Speed	~2.0 sec.
Data Interface	USB C-type / Bluetooth 4.0 BLE (Smartphone)
Display	TN LCD (45x30mm)
Battery Life	3000+ measurements
Battery & Power Source	Rechargeable Li-Ion Battery 3500mA, 12VDC/3.0A
Operating Environment Temp.	5~45°C, 85% RH
Measurement & Weight	110x192x172mm(WXLXH), 440g
Other Supplies	Compatible with RFID tag Smartphone App (Android and iOS) CE, FCC certified

Potential Uses



Pre-harvest Ripeness Judgment for growers



Post-harvest Quality Inspection for packing house and supply chains



Rapid analysis of large samples and reduce variability in experiments for R&D lab

Features

- Light weight handheld style instrument
- Ability to analyze spectra for in-depth statistical analysis
- Bluetooth interfacing to mobile device for better result visualization
- Sunforest's exclusive electro-optic technology
- Reliable repeatability and accuracy
- RFID tag scanner
- Temperature compensation
- Effective at rejecting scans with light interference

Applications

- Tracking/monitoring of Brix/DM throughout the season
- Investigations of effect of location and orientation of fruit on tree
- Brix/DM variability in tree location on orchard(spatial) or trees with different age or health
- Which orchard management methods may affect Brix/DM on an orchard
- Pre-maturity clearance screening



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