

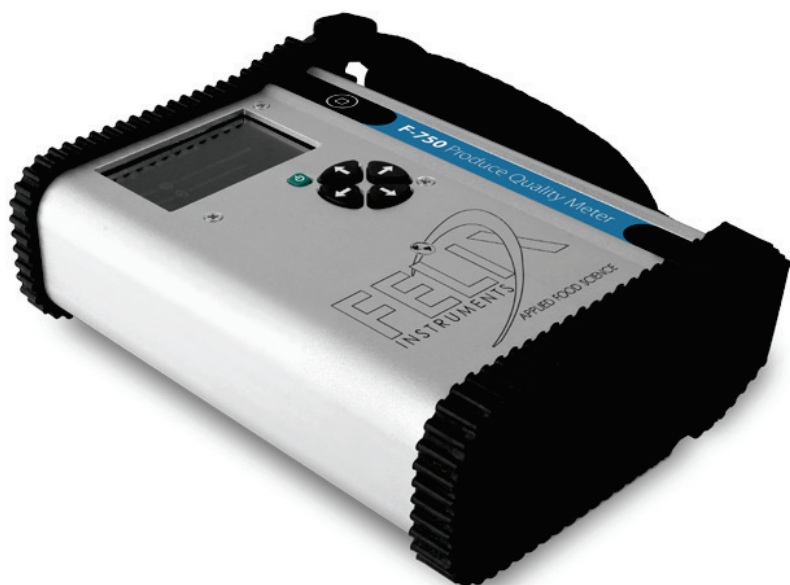


F-750 Produce Quality Meter

Quantify Quality

The F-750 Produce Quality Meter is a portable measurement tool that analyzes both the internal and external traits that contribute to produce quality. NIR (Near Infrared analysis) has been used in fixed installations to provide **Objective, Quantifiable Quality standards** in produce sorting for years. Our portable battery operated device allows a grower to take NIR analysis into the field where better and more consistent maturity determination can **add value to a crop before harvest**.

The F-750 reports quantitative estimates of substances (e.g. Chlorophyll), and traits that involve multiple substances (e.g. ripeness, TSS, DM).



- ✓ Preharvest Maturity Assessment
- ✓ Postharvest Quality Inspection



Product Features

- ✓ Non-destructive estimation of fruit maturity and sweetness related parameters:
 - Total Soluble Solids (Brix)
 - Dry Matter
 - Internal Color
 - External Color
 - Titratable Acid
- ✓ GPS for easy crop mapping
- ✓ Transflective display for outdoor viewing
- ✓ Rechargeable/replaceable batteries
- ✓ SD card data storage



Model Building: Create Commodity & Variety-Specific Models

- ✓ Scan fruits and vegetables to create a training set for the new F-750 model
- ✓ Make destructive, reference measurements from the scanned fruit
- ✓ Use the Model Builder Software package to marry the training set scans to the reference values and create a model with accuracy metrics
- ✓ Use the new model to measure hundreds of samples non-destructively



F-750 Specifications



Spectrometer	Carl Zeiss MMS-1 Spectrometer
Range	310-1100
Spectral Sample Size	3nm
Spectral Resolution	8-13nm
Light Source	Xenon Tungsten Lamp
Lens	Glass, coated to enhance NIR
Shutter	Gold-plated reference standard
Display	Sunlight visible transfective LCD screen
PC Interface	USB and SD Card
Data Recorded with Each Measurement	Raw Data, Reflectance, Absorbance, First Derivative Absorbance, Second Derivative Absorbance
Power Source	Removable 3100 milliamp hour lithium-ion battery
Battery Life	1600+ Measurements
Data Storage	Removable 4 GB SD card
Body	Heavy-duty anodized aluminum body
Weight	1.05 kg

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