

26010

F-750 Food-Scanner

### Information

The F-750 Food Scanner for fruit quality measurement analyses the product quality of plant foods through near-infrared spectral analysis (NIRS) in a quick and non-destructive way.

This measuring method is already used in many industrial applications for material testing and is also suitable for swift deployment of the various stages of the plant value chain. In many experiments, e.g. for tomatoes, grapes, mangoes and blueberries, a very good correlation has been stated between e.g. the Brix value (sugar content) and the NIRS value.

The correlation to other quality parameters required for predictive models, for example, like dry matter content, acidity or hardness, must be determined by tests.

### Technical Specifications

#### Technical data:

- Spectrometer: Carl Zeiss MMS-1 spectrometer
- Range: 310-1100nm
- 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 transreflective LCD screen
- PC interface: USB and Wi-Fi 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 64 GB SD card
- Body: heavy-duty anodized aluminum body
- Dimensions: 180 × 135 × 55 mm
- Weight: 1.05 kg

**Item-no.: 26010 – Food scanner F-750**

