

■ F-750 Comparison Chart

	Felix Instruments	NIRvana (Integrated Spectronics)	SunForest
Specification	F-750 Produce Quality Meter	NIRvana	Handheld Nondestructive Fruit Quality Tester
Sensor type	Carl Zeiss MMS-1 Spectrometer		Enhanced CMOS Spectrometer
Wavelength range	310-1100 nm	400-1050 nm	600-1100 nm
Light source	Xenon Tungset Lamp		mini - Lamp
Spectral sampling	3 nm	3 nm	
Spectral resolution	8-13 nm	8-13 nm	
Typical RMSEP	±0.5 Brix	±0.5 Brix	±0.5 Brix
Measurement time	4 seconds		2 seconds
PC interface	USB and Wi-Fi SD card	USB and Ethernet	USB, Bluetooth
Operating environment	0-50C	0-40C	5-35C, 85% RH
Battery type	removable, rechargeable Li-Ion		Li-ion battery
Battery life	>1600 samples	>1600 samples	1,000 samples
Object fruit	Mango, Apple, Pear, Peach, Cherry, Mandarin, Orange, Melon, Grape, Berries, Kiwifruits, etc.		Apple, Pear, Peach, Mandarin, Orange, Melon, etc.

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Number of commodities measurable	Ability to store and hold unlimited models		Ability to store and hold up to five models
Data recorded with each measurement	Raw spectral output, Reflectance, interactance, first derivative interactance, second derivative interactance	Raw data, interactance, second derivative interactance	Standard diffuse reflectance
Operating modes	Single prediction or running average	Single prediction or running average	
Weight	1.05 kg	<1 kg	0.45 kg
GPS	Yes	Yes	
Web page	www.felixinstruments.com		www.sunforest.kr/index.php?sm_idx=eng
Notes			Relies on a physical separation of lamp and detector. Given model is specific to a given size of fruit.