

TECHNICAL SPECIFICATION

PlantPen PRI 210

PlantPen NDVI 310

PROTOCOLS

PlantPen PRI 210	Photochemical Reflectance Index $PRI = (R531 - R570) / (R531 + R570)$ Reference: Sellers et al. (1985)
PlantPen NDVI 310	Normalized Difference Vegetative Index $NDVI = (R740 - R660) / (R740 + R660)$ Reference: Rouse et al. (1974)

LIGHT SOURCE

PlantPen PRI 210	Dual wavelength light source GREEN = 530 nm, YELLOW = 590 nm
PlantPen NDVI 310	Dual wavelength light source RED = 635 nm, NIR = 760 nm

DETECTOR

Type	PIN photodiode with bandpass filters
Wavelength range	From 500 to 600 nm (PRI 210) From 620 to 750 nm (NDVI 310)
Resolution	12-bit

SYSTEM SPECIFICATION

Internal memory capacity	16 Mb
Internal data logging	Up to 100,000 measurements
Real-time clock	Yes
Data transfer	USB 2.0 Bluetooth (transfer up to 3 Mbps for distance up to 20 m)
PC software	FluorPen 1.2 (Windows 7 and higher)

BATTERY

Type	Li-Ion rechargeable battery
Capacity	2000 mAh
Max. charging current	0.5 A
Charging	Via USB port - PC, power bank, USB charger, etc.
Battery life	70 hours typical with full operation (low battery indicator)

GENERAL SPECIFICATION

Sample holder	Mechanical leaf-clip
Display	Graphical display

Keypad	Sealed, 2-key tactile response Turns off after 5 minutes of no use
Built in GPS module	Ultra-high sensitivity down to -165 dBm High accuracy of <1.5 m in 50 % of trials
Size	135 x 65 x 33 mm
Weight	188 g
Operating conditions	Temperature: 0 to +55 °C Relative humidity: 0 to 95 % (non-condensing)
Storage conditions	Temperature: -10 to +60 °C Relative humidity: 0 to 95 % (non-condensing)
Warranty	1 year parts and labor