

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)
LED lighting	
PlantPen PRI 210	Dual wavelength light source GREEN = 530 nm, YELLOW = 590 nm
PlantPen NDVI 310	Dual wavelength light source RED = 635nm, NIR = 760nm
Detector	
Type	PIN photodiode with bandpass filters
Wavelength range	From 500 to 600 nm (PRI 210) From 620 to 750 nm (NDVI 310)
Data storage and transfer	
Internal memory capacity	Up to 16 Mb
Internal data logging	Up to 100,000 measurements
Data transfer	USB cable Bluetooth (transfer up to 3Mbps for distance up to 20m)
PC software	FluorPen 1.1 (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)
Other	
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 -165dBm 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