

BLE Spectroradiometer

XL-500 is an ultra compact Bluetooth Spectroradiometer based on disruptive digital-nano convergence technology. It is easy and convenient to use as a portable device or as a spectrum recorder with free Android/iOS App, internal memory, and long lasting rechargeable battery. XL-500 is individually calibrated and provides device-to-device repeatability. The features and performances are comparable to conventional industry equipment.



Features

- Spectral Power Density (SPD: W/m² per wavelength)
- Lux (Photopic)
- CIE S026 Rhodopic, Melanopic, Cyanopic, Chloropic, and Erythropic Lux
- PAR/PPFD, DLI for Agriculture
- X, Y, Z, CIE xy, CIE uv, CCT, CRI
- Individually Calibrated
- Device-to-Device Repeatability
- Memory for upto 8,000+ Measurements
- Ultra Low Power Consumption (lasting more than 1+ month @every 5-minute measurement interval, within one charge)
- Auto Exposure Control
- 3.7V LiPo Rechargeable Battery, charging via micro-USB jack
- Wide Operating Temperature
- Bluetooth Low Energy(BLE)
- Free Android and iOS App

Potential Applications

- Human Centric Lighting
Smart Building
Hospital, Classroom, Office
- Movie Industry
- Controlled Environment Agriculture
Greenhouse, Plant Factory, Vertical Farm
Plant Growth Chamber
- Animal Farm (Poultry, Swine)

Key Parameters

Parameter	Value
Wavelength range	V1 type: 390-760nm, W1 type: 400-1000nm N1 type: 600-1000nm
Resolution	10nm~40nm
Repeatability(peak)	1nm
SNR	> 100:1
Dynamic range	> 1000:1
Integration time	250us~, manual or auto
Measurement Interval	Min. 100ms
FOV(field of view)	> +/- 60 degree
Power consumption	76uA @standby mode; 25mA@full operation
Operation temperature	0°C ~ 60°C
Dimensions (L*W*H)	39mm * 26mm * 16mm
Weight	28g

Customization is also available.

Any Questions or Suggestions: info@nanolambda.net

