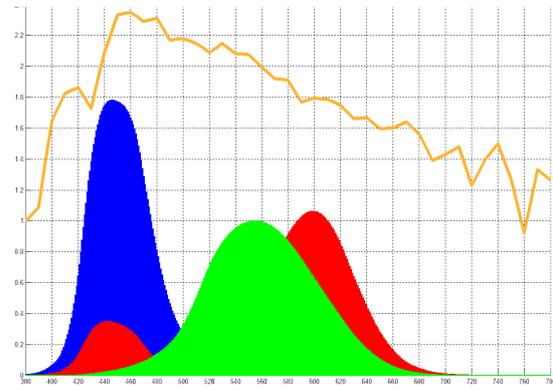


Spectrometer



CL500 series spectroradiometer is a cost effective illuminometer. The illuminometer uses multichannel filter as a spectroscopic component, which can collect the wavelength 400~700 nm (different types, different configurations), It outputs 1 nm interval irradiance spectrum, and the Ev range can reach up to 200,000 lx. The instrument is equipped with a 2.8-inch TFT capacitive touch screen, 4000 mAh Li-ion battery, Bluetooth / WIFI multi-function chip, Mass storage device.

The instrument can not only measure the irradiance spectrum, illuminance, CCT, CRI, white balance, but also measure the parameters of UVI index, blue light hazard, display color gamut, uniformity, CQS, TM-30, TLCI-2012, flicker and other parameters.



Accurate measurement



Powerful
Widely used



User-friendly
Easy to operate



Portable design
High-scalability

PRODUCT FEATURES

- 1.Wavelength range of 400-700nm, 1nm output, cost effective, with high accuracy and stable performance.
- 2.2.8-inch TFT capacitive TP, 4000 mAh Li-ion batteries,TypeC/bluetooth/WIFI, the portable design of artificial aesthetics.
- 3.Ev, CCT, CRI, UVI index, blue light hazard, uniformity, CQS, TM-30, TLCI-2012, flicker and so on.
- 4.Powerful measurement function, user-friendly function module to distinguish, simple operation.
- 5.Built-in D65, A, C, D50, D75 and other standard illuminator spectrum ,convenient for spectral comparison.
- 6.Screen can be locked to avoid maloperation; the measuring head can be detachable and installed 180 degrees reversely.
- 7.Type C and Bluetooth multiple interfaces (Customizable WIFI) have a wide range of application scenarios.
- 8.It is widely used in LED lighting,display, multimedia,eye protection lamp,UV,laboratory,and so on.

APPLICATION INDUSTRY



lighting

engineering

display

leds for plant

Photobiological safety

multimedia

SPECIFICATION PARAMETER

Model	CL600	CL500
Standard	GB/T 7922 ,GB/T 5700,GB/T 5702,JJG 245,GB/T 24824,GB/T 36979,ANSI C78 377, GB 50034,CIE S 009,GB/T 20145,GB/T 9473,GB/T 15609	
Wave Range	400 ~ 700nm,910nm(HalfWidth 100nm),UVA	400 ~ 700nm,910nm(HalfWidth 100nm)
Wave Interval	1 nm	
Spectrophotometric Mode	Multichannel Filter	
Accuracy (Light source A)	Ev:±5% ±1 display value xy:±0.002(10 ~ 20000lx) / xy:±0.0025 (5 ~ 10lx)	
Repeatability (Light source A)	Ev:0.5% ±1 display value xy:0.001(500 ~ 20000lx) / xy:0.002(100 ~ 500lx) xy:0.003(20 ~ 100lx) / xy:0.005(5 ~ 20lx)	
Cosine Response	Ev: ≤ 5%	
Measurement Mode	Auto mode,Flash mode,Flicker mode(except CL500), Continuous mode, Average mode	
Measuring Time	Auto mode:0.1~10 s	
Observer Angle	2°(CIE1931)	
Color Space	Spectrum,CIE XYZ, Ev xy, Ev u'v'	
Colorimetric Index	1.Ev,CCT(K),CRI; CIE31x,y; CIE76u',v'; CIE31 X,Y,Z; Duv,SDCM,S/P,White Balance; Peak,Center,Centroid;λd,PE,PC;Ee,Eb,Eg,Er,Erb,R(%),G(%),B(%); 2.Flicker(Hz),Modulation(%);(except CL500), 3.Display screen Gamut,Gamut Area(%),ΔCuv; 4 Points/9 Points Uniformity; 5.CQS,Color Fidelity Qf,Gamut Index Qg and Qp; TM-30 Color Fidelity Rf and Gamut Index Rg;TLCI-2012;(except CL500) 6.UVA,UVIEs-uv,Es-B,RG(BLH),PermitTime(S);(except CL500), 7.CIE31 xy diagram,CIE76 u'v' diagram,CRI/CQS histogram,CRI/CQS radar chart, MacAdam ellipse diagram,White Balance diagram	
Data Storage	Sample 5000 Pcs	Sample 2000 Pcs
Dimension	L*W*H=154X62X39mm	
Weight	about 192g	
Battery	Li-ion battery,3.7V,4000mAh(8000 measurements within 24 hours)	
Display	2.8-inch TFT color LCD, Capacitive Touch Screen	
Data Port	Type C USB, Bluetooth 5.0(Customizable WIFI)	
Language	English, Chinese	
Operating Environment	-10~40°C(0~85%RH/no condensing)	
Storage Environment	-20~50°C(0~85%RH/no condensing)	
Standard Accessory	Power adapter,USB cable>manual,PC Software(Download from office website),Protective Cover, Wrist strap,Wiping cloth	