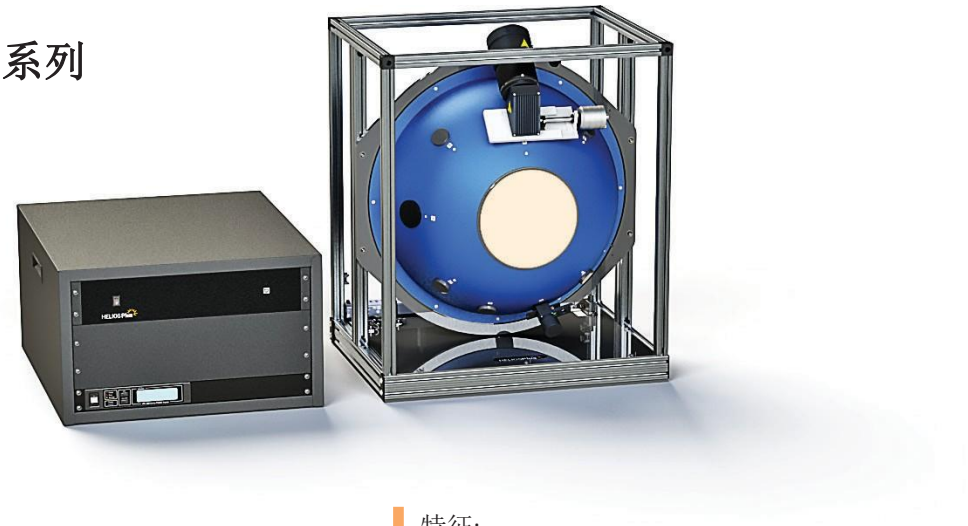
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Create any spectrum

HELIOS®Plus

可变光谱输出积分球均匀光源用于基本测试需求

HELIOSPlus-VM V 系列



手动式可变光谱输出系统

HELIOSPlus-VM, V 系列系统是一个简单而完整的系统，具有良好的动态范围。 一个卤素灯、手动衰减器和探测器使您能够在整个动态范围内完整表征传感器/成像器。

V系列可添加D,A,L系列系统上所有的配件，在您需要进行测试扩展时，可进行系统升级。

V系列系统为您搭建测试实验室提供坚实的实验基础。

特征:

- 全方位光源系统，用于简单的传感器测试
- 操作简单，性能优越
- 高级别绝对定标
- 具有备用端口和未来系统升级能力
- 易于升级到其他系统选项或者其他系列配置

性能:

- 3000K QTH 石英钨卤灯 250 - 2500 nm 类黑体光谱
- 良好的动态光照范围:
  - >反照率 1.5 (AM 1.5) 低至月光照度水平
  - 相机与传感器：>14bit, 实际 15 bit（93 dB）
  - 手动控制

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V Family: Variable Modular

Model Number Smart Part Number	USLR-V12F-NDNN-P V3ND-NNNN-NNSL-NS00-0000-P	USLR-V08F-NDNN-P V3ND-NNNN-NNSL-NS00-0000-P
OPTICAL PERFORMANCE SPECIFICATIONS		
Spatial Luminance Uniformity over Exit Port (f/4) - All Lamps On	+/-1%	+/-1%
Angular Uniform FOV (Full Angle) - Degrees / F# / NA - All Lamps On	+/-2.0% - 35° / 0.85 / 0.6	+/-2.0% - 35° / 0.85 / 0.6
Expected Luminance Output: cd/m2	11,500	29,000
Expected Illuminance at Port: lux	36,000	91,000
Est. Peak Radiance: W/m2-sr-um @ 0.95 um	350	760
Est. Peak Irradiance @ Port: Photons/s-m2-um @ 0.95um	1.50E+21	3.60E+21
Minimum Resolution: lux	7.20E+01	1.82E+00
Number of Steps in System Range	1.00E+04	1.00E+04
Dynamic Range/Bits/dB	5.00E+04/15/93	5.00E+04/15/93
Approximate Correlated Color Temperature (QTH)	3000K +/-50K	3000K +/-50K
Typical Lamp Lifetimes (hrs)	>500	>500
Est. Lamp Degradation Over Lifetime (% & CCT Shift)	-10% & +/-200K	-10% & +/-200K
Est. Output Degradation over 50hrs (% & CCT Shift)	-1.0% & +/-20K	-1.0% & +/-20K
INTEGRATING SPHERE		
Coating / Material	Spectraflect®	Spectraflect
Sphere Internal Diameter: Inches (Centimeters)	12 (30)	8 (20)
Frame Type	12 in Cage	8 in Cage
Output Port Size: Inches (Centimeters)	4 (10)	2 (5)
SYSTEM COMPONENTS		
QTH Lamps Internal (# , Wattage)	None	None
QTH Lamps External (#, Wattage)	(1) 150	(1) 100
Power Supplies (# - Model)	(1) LPS-400	(1) LPS-400
Variable Attenuator	VA-012	VA-012
Monitor Detector(s)	SD-S1	SD-S1
Detector Filters (in Filter Holder)	Photopic	Photopic
System Software	HELIOSense	HELIOSense
STANDARD SYSTEM CALIBRATIONS (NIST Traceable)		
Luminance	Yes	Yes
Correlated Color Temp (All lamps matched & w/VA position)	Yes	Yes
Spectral Radiance (350-2400 nm)	Yes	Yes
Exit Port Spatial Uniformity	Yes	Yes
Exit Port Angular Uniformity	Yes	Yes
Operational Duration of Calibration	50 hrs	50 hrs

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V Family: Variable Modular

Model Number Smart Part Number	USLR-V20F-NMNN-P V5NM-NNNN-NNSL-NS00-0000-P	USLR-V12F-NMNN-P V3NM-NNNN-NNSL-NS00-0000-P	USLR-V08F-NMNN-P V1NM-NNNN-NNSL-NS00-0000-P
OPTICAL PERFORMANCE SPECIFICATIONS			
Spatial Luminance Uniformity over Exit Port (f/4) - All Lamps On	+/-1%	+/-1%	+/-1%
Angular Uniform FOV (Full Angle) - Degrees / F# / NA - All Lamps On	+/-2.0% - 35° / 0.85 / 0.6	+/-2.0% - 35° / 0.85 / 0.6	+/-2.0% - 35° / 0.85 / 0.6
Expected Luminance Output: cd/m2	3,800	11,500	29,000
Expected Illuminance at Port: lux	12,000	36,000	91,000
Est. Peak Radiance: W/m2-sr-um @ 0.95 um	100	350	760
Est. Peak Irradiance @ Port: Photons/s-m2-um @ 0.95um	4.70E+20	1.50E+21	3.60E+21
Minimum Resolution: lux	2.40E-01	7.20E-01	1.82E+00
Number of Steps in System Range	1.00E+04	1.00E+04	1.00E+04
Dynamic Range/Bits/dB	5.00E+04/15/93	5.00E+04/15/93	5.00E+04/15/93
Approximate Correlated Color Temperature (QTH)	3000K +/-50K	3000K +/-50K	3000K +/-50K
Typical Lamp Lifetimes (hrs)	>500	>500	>500
Est. Lamp Degradation Over Lifetime (% & CCT Shift)	-10% & +/-200K	-10% & +/-200K	-10% & +/-200K
Est. Output Degradation over 50hrs (% & CCT Shift)	-1.0% & +/-20K	-1.0% & +/-20K	-1.0% & +/-20K
INTEGRATING SPHERE			
Coating / Material	Spectraflect®	Spectraflect	Spectraflect
Sphere Internal Diameter: Inches (Meters)	20 (0.5)	12 (0.3)	8 (0.2)
Frame Type	20 in Cage	12 in Cage	8 in Cage
Output Port Size: Inches (Meters)	8 (0.2)	4 (0.1)	2 (0.05)
SYSTEM COMPONENTS			
QTH Lamps Internal (# , Wattage)	None	None	None
QTH Lamps External (#, Wattage)	(1) 150	(1) 150	(1) 100
Power Supplies (# - Model)	(1) LPS-350	(1) LPS-350	(1) LPS-350
Variable Attenuator	VA-MM	VA-MM	VA-MM
Monitor Detector(s)	SD-S1	SD-S1	SD-S1
Detector Filters (in Filter Holder)	Photopic	Photopic	Photopic
System Software	HELIOSense	HELIOSense	HELIOSense
STANDARD SYSTEM CALIBRATIONS (NIST Traceable)			
Luminance	Yes	Yes	Yes
Correlated Color Temp (All lamps matched & w/VA position)	Yes	Yes	Yes
Spectral Radiance (350-2400 nm)	Yes	Yes	Yes
Exit Port Spatial Uniformity	Yes	Yes	Yes
Exit Port Angular Uniformity	Yes	Yes	Yes
Operational Duration of Calibration	50 hrs	50 hrs	50 hrs

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