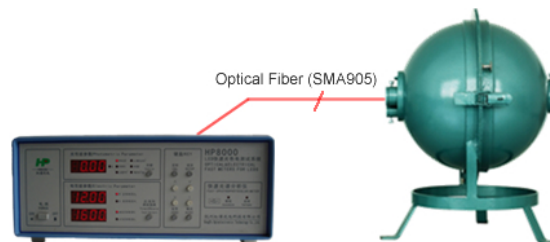


LED SPECTROMETER SYSTEM HP8000

LED Spectrometer System would be made up of the following parts:

I. HP8000 Spectrometer (Incl. optical fiber and probe):



The system can determine spectral power distribution, chromaticity coordinates, correlated color temperature, color rendering index(Ra), color difference, peak wavelength, spectral half width, dominant wavelength, color purity, luminous flux, test for photometry, colorimetry & electricity of LED characteristics.

Test Speed: <1s

Range of wavelength: 380nm-780nm;

precision Accuracy: $\pm 0.5\text{nm}$;

Range of Dominant Wavelength(λD): 380nm-700nm Accuracy: $\pm 1.5\text{nm}$

Accuracy of chromaticity coordinates: ± 0.0025 (x, y)

(under standard illuminate A)

Range of Correlated Color Temperature(CCT): 1500K-25000K Accuracy: $\pm 3\%$

To electric current (I F) : 0.1mA \sim 2.0 A ;

Forward voltage (V F) : 0.1 ~ 20.00 V

Reverse electrical current (I R) : 0.01 μ A~200 μ A ;

Reverse voltage(V R) : 0.1 ~ 20.00 V

Luminous intensity survey scope: 1 mcd ~ 300.0 cd(near field) ;

1 mcd ~ 3000 cd(far field) ;

Range for luminous flux(Φ_v): 10lm-2000.0 lm Accuracy: \pm 5%

Electrical parameter measuring accuracy: 0.5 level;

Luminosity measuring accuracy: A level;

II. 5W/12V OSRAM UNIVERSAL LAMP-HOUSE (COLOR TEMPERATURE/LUMINOUS FLUX)



Under the stated working current, it has stable and reproducible color temperature and luminous flux, which is used for scale of the color temperature (spectrum distributing) luminous flux of spectrometers.

III. 0.3M integral ball



The design complete accord with corresponding international and internal normative request, the mostly material of the walls coat are chosen analysis pure BaSO₄ , chemistry stability is good, it doesn't change yellow in the future; the ball material choosing cold roll armor plate, it is not easy to change the shape; the base height can be accommodated, it is sure that the integral ball can be level placed; multi-connect end can suffice the lamp-house multinomial tests go along at the same time.

IV. Measurement Instrument of Light Force

Range: 0.000MCD~300CD



V. Optical Fiber, Probe, Functional Fixture



Spectroradiometric Measurement System (Combined) HSP3000

Energy Saving Lamp Spectrometer System would be made up of the following parts:

I. HSP3000 Spectrometer Host



Range of wavelength: 380-780nm. (Special: 200nm~780nm) .

Accuracy of wavelength: $\pm 0.2\text{nm}$.

Repeatability of wavelength: $\pm 0.1\text{nm}$.

Accuracy of chromaticity coordinate: ± 0.0003 (under standard illuminate A).

Spectrum sample interval: 5nm(Special order: 1nm).

Luminosity linearity: 0.3%.

Accuracy of luminosity: 1class.

Correlated color temperature measure range: 1500k~25000k.

Accuracy of CCT: $\pm 0.3\%$ (under standard illuminate A) .

Accuracy of rendering index: $\pm (0.3\% \text{rd} \pm 0.3)$.

Environment temperature measure range: $-10^{\circ}\text{C} \sim 80^{\circ}\text{C}$.

Temperature measure range (In sphere): $-10^{\circ}\text{C} \sim 100^{\circ}\text{C}$.

New Adding Functions

1. Adopting RS-232-C output or USB transferring RS-232-C output, card inserting needless.
Operating system is Windows/2000 or Windows/XP.

2. Rapid minus high pressure adjustable, it makes measuring time more rapidly, reduce the abrasion of instrument rapidly.
3. It could calibrate the error automatically, and add the function of timer.
4. Synchronization measurement of circumstance temperature and temperature in sphere, measurement automatically.
5. Spectrum power distributing could choose color and white/black display & printing.
6. Spectrum and color content chart in test report could converse automatically, suit for various lamp-house.
7. Adopting A/D switch with higher precision, sensitively and repetitively.

II. 1.2M OPTICAL FIBER

Used for transmission of light signal between spectrometer and integraph sphere.



III. HP502 Customized Power supply for Standard Lamp



It is the linearity power supply, which is designed specially according to the special requirement and characteristics of the universal standard lamp-house. It features high stability, high precision, simple operation, convenient use, continuous and adjustable



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output current. The current could be displayed by digital meter with high precision, which is suitable for high precision current surveillance, is also the ideal power supply used for standard lamp-house and lamp-house made with low tungsten filament.

Output voltage: 6V/12V/24V/50V

Output current: 0.0010-2.500A continuously & adjustable

Output current Stability: $\pm 0.05\%$ /8 min.

Accuracy of surveillance meter: $\pm (0.08\% \text{ read numbers} + 0.02\% \text{ measuring range} + 1 \text{ byte})$

IV. OSRAM UNIVERSAL STANDARD LAMP-HOUSE



Under the stated working current, it has stable and reproducible color temperature and luminous flux. The color temperature (spectrum distributing) scale used for HSP series spectral analysis system, as well as luminous flux scale for HP series spectrometers.

Measured Value could be trace to China Computation Bureau.

V. 1.5M Integral Ball (Painted by special process)



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Tel: 86-592-5237772
Email:sales@magnetsource.com.cn, dexing2007@gmail.com
Home page:<http://www.magnetomachinery.com>

Zip code: 361009
Fax: 86-592-5237901

It equipped with HSP-3000 spectrometer and HP200 Luminous Flux measurement instrument. On the integral ball, there're several interfaces could be used to measure different parameters, such as luminous flux, in-ball temperature and color temperature of various lamp-house.

VI. HP105 measurement instrument of electronic parameters



When measuring light parameters, four windows would display voltage, current, power, power factor/frequent V, A, W, PF/Hz

All measured value would be root mean square value

Voltage: 75V/150V/300V/600V Auto. Measuring Range

Current: 0.5A/2A/8A/20A Auto. Measuring Range

Power Factor: -1.000-1.000 ;

basic frequency: 45Hz-65Hz, bandwidth: 5kHz ;

Tolerance: $\pm(0.4\% \text{ read numbers} + 0.1\% \text{ measuring range} + 1 \text{ byte})$, 0.5 level

VII. 19 inch Standard Cabinet



Containing measurement meters, matched the whole set of panels made by our company.
Dustproof, Excellent anti-electromagnetic interference, matching with int'l trend.

VIII. THP-500

Single-phase Precision Frequency Conversion Measurement Power.



- AC-DC-AC Frequency Conversion Process;
- Digital wave synthesized, wave feedback, lower power distortion.
- Controlled and measured by 16-digit SCM, high intelligence
- 12-digit A/D high speed sampling and measuring process, shown V.A.W.PF.Hz accurately.
- Zero-output impedance, equivalent impedance ≤ 0.1 ;
- With floating insulation power supply, it features safety and stability.
- Protection of abnormal current, voltage, superheat.
- Input with keyboard, it has rough/inching adjustable instrument.
- Output Frequency Setting: 45.00-65.00Hz
- Output Voltage Setting: 0.0-300.0V
- THP-500 Max. Output Current: 0-150V/4.2A; 0-300V/2.1A
- THP-1000 Max. Output Current: 0-150V/8.4A; 0-300V/4.2A
- Max. Voltage Distortion: $\leq 0.6\%$ (Resistance Load)



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- Voltage stability: $\leq 0.1\%/30$ min.
- Load Regulative Rate: $\leq 0.1\%$
- Frequency stability: $\leq 0.05\%/30$ min.

Note:

Please prepare a computer(Windows 95 or more), a printer, 3 Junction boxes 220V, with excellent grand electrode to equip with above measurement instrument system.