

Molecular Fluorescent Spectrometer(Multi functions PL2006)

The application scope of our Fluorescence Spectrometer is as follows:

- OPTO new material like O-LED, P-LED field, QC/QA for LED's powder, QC/QA for PET fiber
- Coating on Silicon wafer, Biochemistry & Clinical testing & inspection, Clinical Bio-chips inspection
- University & Institute research, Environmental inspection and so on.

Our R&D team has continuously handled & completely operated twice MOEA SBIR plans; has developed the newest fluorescent spectrometer according to current analytical instrument which market demands.

We have developed and completed the newest generation model Multi-functions PL 2006 which are cheaper, modular design which have the bigger sample compartment, adjustable light beam with lens or high/low pass filter. Its characteristic include of possessing innovation patent pending that customer just have to pay one set of fluorescent spectrophotometer cost, at the same time, you can possess Absorbance, Reflection, Transmission, Thickness, Irradiance and Color.

Our system's feature includes competitive price, the fastest scanning speed (3 ms or 10 micro second for full scan, good for kinetic reaction), no moving optical parts which offer more accurate spectra for a longer period, easy to expand the functions by optical fiber and main optical components.

Because fluorescent spectra are not absolute in the sense that absorption spectra and the appearance of spectra will depend upon the particular instrument and the mode used to record it. We normalize Y scale for our customers. You can get **uw/cm²/nm on Y scale** with the **NIST Lumens** and **CIE color** at the same time.



Model PL2006



Model HG 200

© Product application please refer our website:

<http://www.labguide.com.tw/>

No.	Item	Multi-functions PL 2006 Specification
1.	Fluorescent emissive range	Standard : 200~850 nm. Option : to 1100nm, 1700nm or 2500nm 2048-elements CCD array Fixed standard slit: 100 μ m, Depend on different slits Resolution: ~ 5.7 nm (FWHM), option to 0.5 nm
2.	Sample holder	10 x 10 mm cuvette cell for solution Rotation sample holder can rotate each 10 degree angle over 360 degree
3.	Light sources	9.9W Xenon for A, T, R, Thickness, Color 150W Xenon 、 200W Hg for Fluorescence
4.	Mono-Chromator	200~800nm Option : 500~1200nm, 750~1700nm, 850~2200nm
5.	accessory	Optical fiber : 50, 100, 200, 400, 600, 1000 μ m with SMA905 Variable band-pass filter 、 high/low pass filter SMA905 connecter and 3/8" outlet Y type reflection fiber & Probe Holder
6.	Data transfer interface	USB/ PC
9.	Custom made Software	Multi-functions S2006
10.	Dimensions	~ 500 mm (width) \times 300 mm (height) \times 420 mm (deep)
11.	Options	PMT 200-850 nm, monochromator 200-800 nm f=500 mm, USB/PC

Labguide reserves the right to change at any time and without notice the design or specifications of any product.



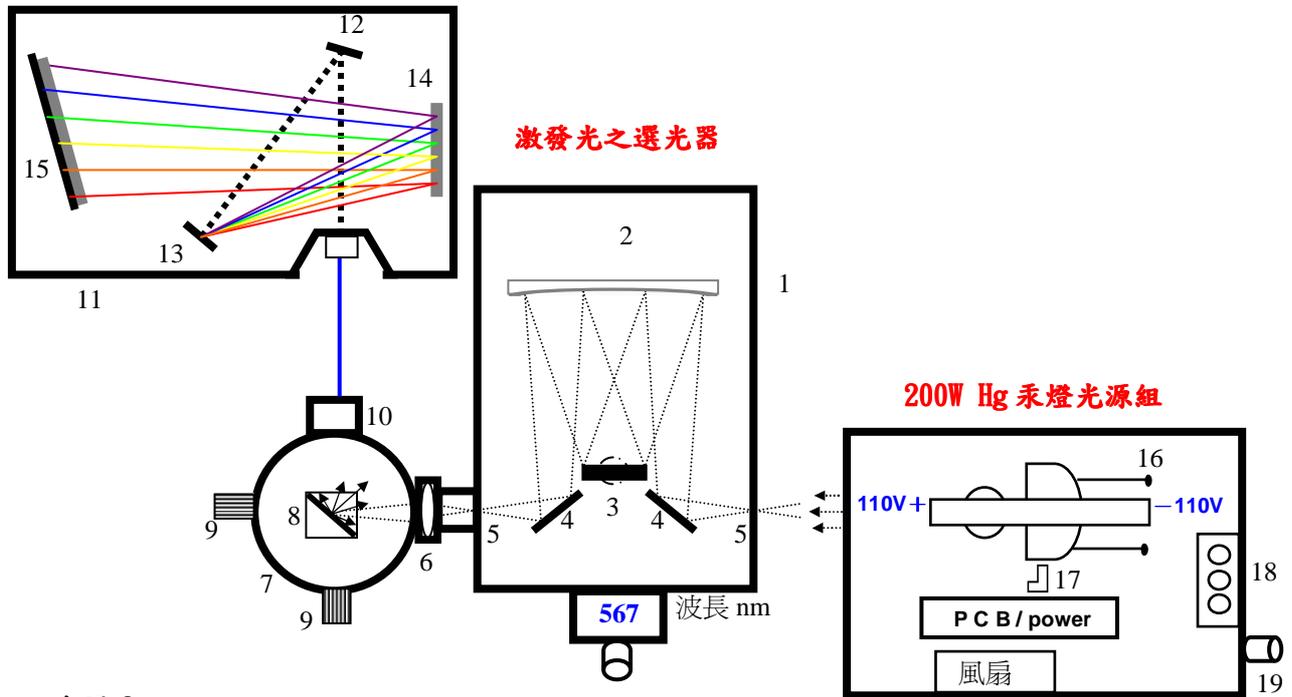
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◎主機元件配置、光纖圖

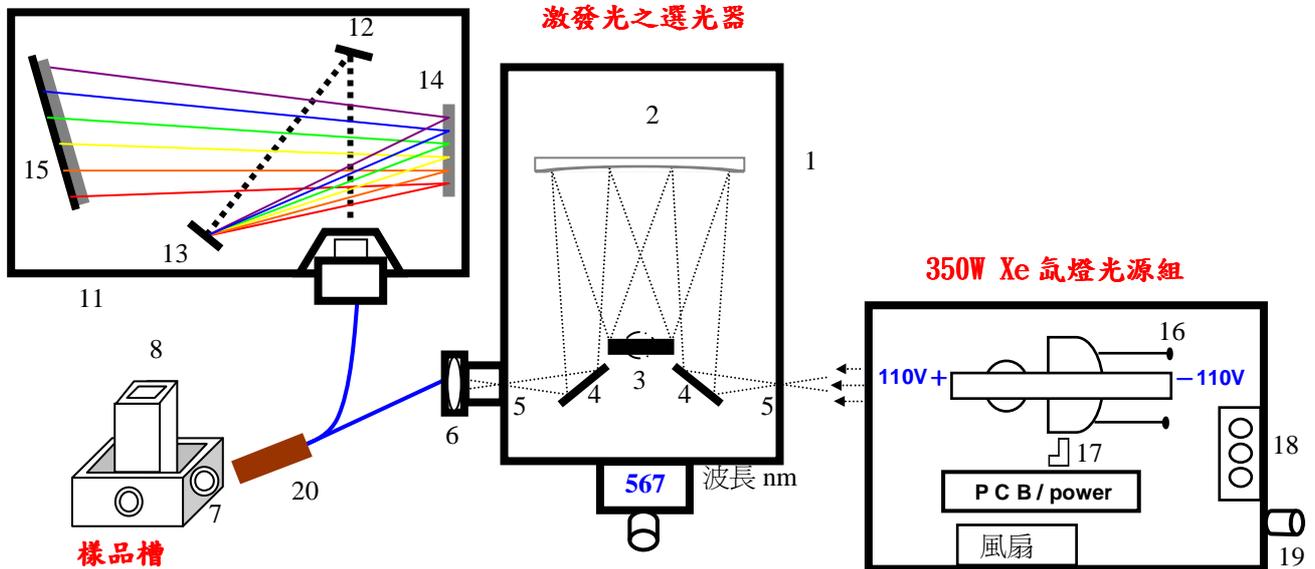
合圖 1：

線性陣列式 CCD 光譜儀

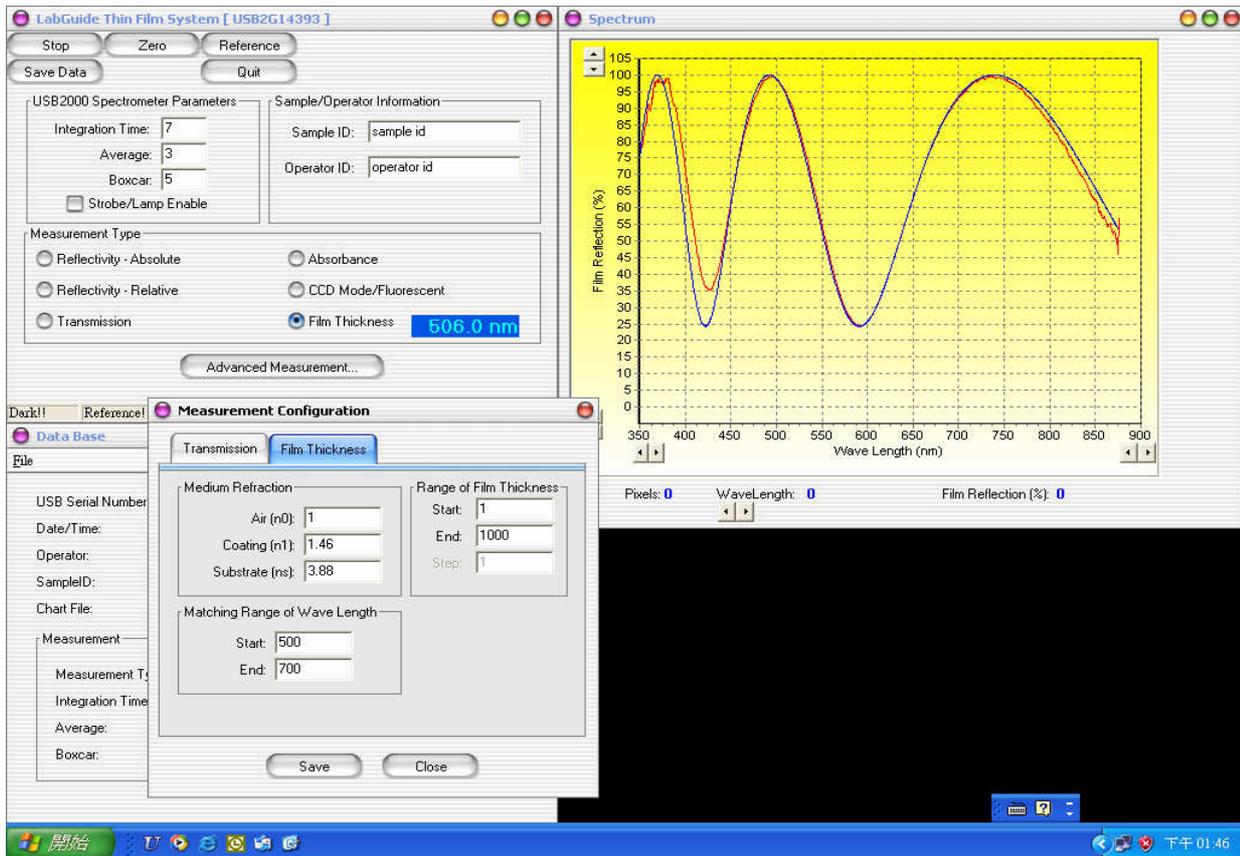


組合圖 2：

線性陣列式 CCD 光譜儀



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|--------------------------------|----------------------------|---------------------------------------------|
| 1. 手調式單色分光器
(Monochromator) | 8. 樣品(Sample) , (液體及薄膜) | 15. 感測裝置(CCD element) |
| 2. 弧形反射鏡(Mirror) | 9. 反射鏡(Mirrors) | 16. 3-point Adjust & focus light |
| 3. 光柵(Grating) | 10. 連接裝置(Connector) | 17. moving plate to adjust & focus
light |
| 4. 反射鏡(Folding Mirrors) | 11. 光譜儀(Spectrophotometer) | 18. Amperage display |
| 5. 通光縫隙(Slits) | 12. 反射鏡(Mirror) | 19. adjust power nob |
| 6. 聚焦鏡(Collimating Lens) | 13. 光柵(Grating) | 20. 光纖式探棒 |
| 7. 旋轉角度樣品槽(Sample
Holder) | 14. 反射鏡(Mirror) | |



Thin Film System to measure SiO₂ / 506 nm coating on silicon wafer

- * 發光波長 : 502 nm 樣品 : Si12N12 鍍於矽晶圓片
- * 激發波長 : 365 nm

