

## 三合一微量盤分析儀

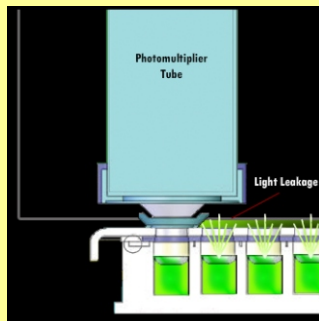
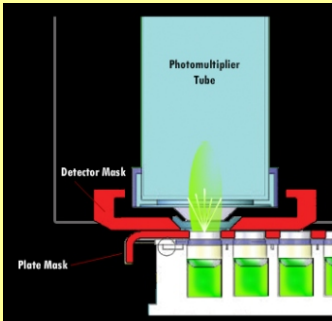
超越百萬等級儀器靈敏度 Microplate多功能儀

冷光可達  $3 \times 10^{-21}$  moles luciferase or  $1 \times 10^{-18}$  moles ATP  
 螢光可達 0.5fmole or 1ppt fluorescein  
 吸收光可達 0-5.0 O.D.

### Cross-talk reduce Design

Modulus series

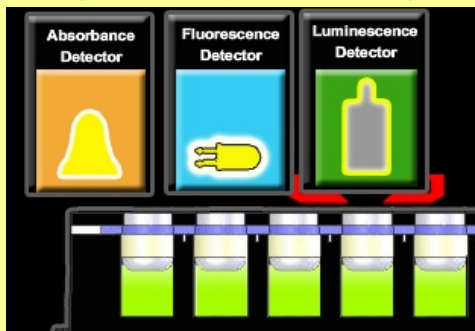
其他廠牌



### Detection mask & plate mask

由圖可見，具備有mask裝置後可以大幅避免來自隔壁樣品發出的冷光干擾 (crosstalk)，精準讀取到單一well中的冷光訊號

### 模組化設計



可測冷光、螢光、吸收光  
 可分開購買或升級



**Modulus™ II**  
 Microplate Multimode Reader



Temperature Control



USB



Injectors



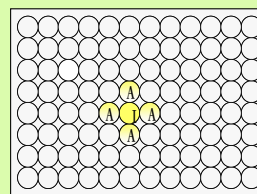
Protocol Composer



Shaking

### Cross-talk reduce Design

偵測Well (I)時，Cross-talk reduce design (Plate/Dector mask) 能降低對周圍well (A) 的干擾或造成假訊號

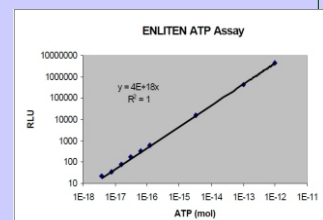
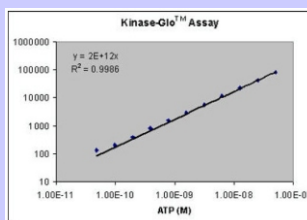
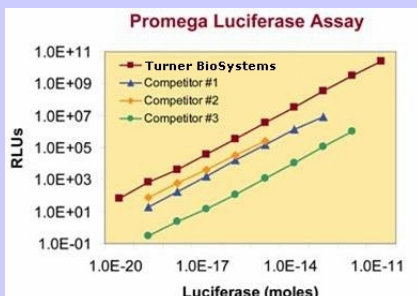


光子計量偵測 (PMT for photon Counting):

- Photon Counting PMT
- Dual Masking System
- Low noise circuitry design
- Cross-talk:  $5 \times 10^{-5}$

### Turner Biosystems

1. 超越所有競爭者，可測到  $3 \times 10^{-21}$  moles luciferase
2. 具高動態範圍偵測RLU ( 6~8 logs)，避免過飽和情形



# 三合一單管測定儀 媲美百萬等級儀器



**Single Tube 多功能儀**  
**Modulus™**  
Single Tube Multimode Reader



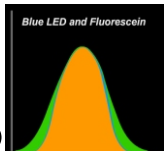
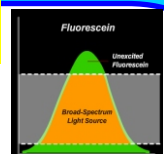
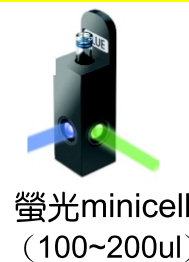
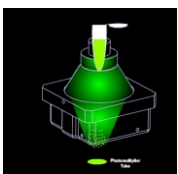
Fluorophore/Assay	Excitation Peak (nm)	Emission Peak (nm)	Modulus Single Tube
4-MU	365	460	UV
Baclight Live/Dead (Syto 9)	483	503	Blue
Baclight Live/Dead (Propidium Iodide)	520	617	Green
B-Gal	365	460	UV
Cy3	550	570	Green
Cy5	650	670	Red
CaspACE	360	460	UV
CyQuant	480	520	Blue
DiFMUP	365	460	UV
EBFP	380	440	GFPUV
EGFP	490	505	Blue
EnzChek 9BODIPYFL)	505	513	Blue
Ethidium Bromide	518	605	Green
EYFP	488	527	Blue
FITC	494	519	Blue
Fluorescein	494	519	Blue
GFPuv	395	509	GFPUV
GFPwt	390	509	GFPUV
Hoechst 33258 Dye	352	461	UV
NADPH	340	460	UV
NanoOrange	470	570	Blue
PicoGreen	502	523	Blue
RFP	558	583	Green
Quant-iT DNA High Sensitivity	502	523	Blue
Quant-iT DNA Protein	470	570	Blue
Quant-iT RiboGreen RNA	550	525	Blue
Quant-iT RNA	644	673	Red
Sytox Green	485	523	Blue

冷光可達  $1 \times 10^{-16}$  moles ATP or  $1 \times 10^{-20}$  moles Luciferase  
 螢光可達 6ppt 或 4.5pg/100uLDNA  
 吸收光可測 0-4.0 O.D.

- ★ Lid Start: 可設定關蓋直接測讀
- ★ 可即時export到Excel
- ★ 可測Kinetics

不需transfer  
 enppendor f可直接測

可Custom吸收光filter、螢光ex及em



**冷光用**  
**Luminescence Applications**

- Luciferase Assays
- ATP Assays
- Chemiluminescent Immunoassays
- Kinetics Assays

**吸收光用**

**Absorbance Applications**

- Protein Quantitation
- Cell Turbidity, OD 600

**螢光用**

**Fluorescence Applications**

- DNA/RNA Quantitation
- Gene Expression Assays
- Enzyme Assays
- Protein Quantitation