

# MP - 3800

Microplate Photometer



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**Analytical Technologies Limited**

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The MP-3800 measures the absorbance with the intuitive touch screen. It provides reliable and qualified results by the high-quality photometer through the built-in powerful software. By the big 7' colorful touch screen, the user enjoys the intuitive operation on the system. And the friendly visual user interface with the logical workflow ensures the excellent usability, making it ideal for qualitative and quantitative ELISA applications in the research laboratories.

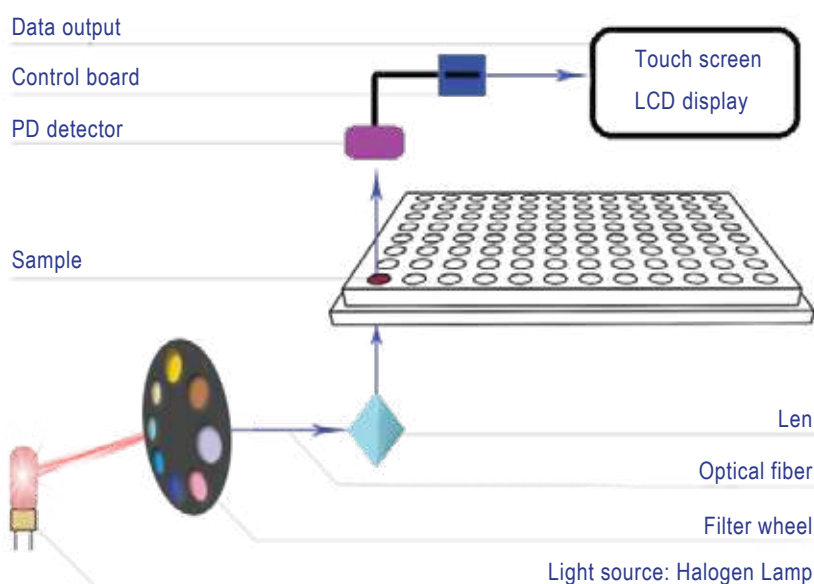
## ►► Features :

- Wide wavelength range of 340nm to 850nm
- Fast reading of both 96-well and 384-well microplates
- Shaking and incubation from RT+4°C to 50°C for temperature critical assays
- Big 7' colorful touch screen for intuitive operation
- Easy but powerful software with its logical workflow for universal usability
- High-quality photodetector from Hamamatsu
- USB port for easy data transfer



96/384 Microplate

## ►► Working principle (XY axis scan) :



### ◆Scientific design of optical system to ensure the accurate measuring results

The optimum design and the verification of the optical path and circuit, meet the wide detection range from 340-850 nm wavelength.

The detection results of each band are accurate and stable, applicable to a variety of rigorous applications.

### ◆The stable and reliable performance comes from the built-in self-diagnostic program of the machine.

In the start-up stage, the built-in self-diagnostic program detects the position of the microplate, and the stability of optical components.

### ◆Large colorful LCD touch screen for easy use

7 inch colorful capacitive touch screen, can display more detection data.

The large size icons realizes easy touch operation and reduces disoperation as much as possible.

There are three shortcuts to start the customized protocols with one-button start.

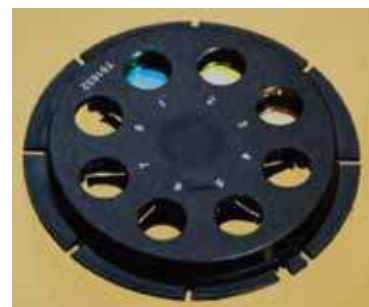
►► **Powerful internal software :**

►► **Functions include:**

- Main: protocol, plate format, measurement, shaking, incubation
- Process: plate layout, preprocessing, calculation, interpretation, quality control
- Results: raw data, calculated results, calibration data, quality control, results in list format
- Settings: system, filters, printer, startup.

►► **Applications :**

- Immunoassays (ELISA)
- Protein assays
- Endotoxins
- Cytotoxicity and proliferation assays
- Enzyme assays
- Growth curves



8 filters wheel

►► **Specification :**

Model	MP-3800
Plate Type	96-well and 384-well plates,max height:15.3mm
Light Source	Quartz-halogen lamp
Detector Type	Photo detector
Wavelength Selection	Filters
Wavelength Range	340nm to 850nm
Filters	8-position filter wheel; Three filters installed: 405nm,450nm,and 620nm.
Optional filters (nm)	340,375,414,492,520,530,540,550,560, 570,595,630,650,690,740,750,820
Linearity	0-3 Abs,-/+2% at 405nm,96-well plate
Read-out Range	0 to 6Abs
Resolution	0.001Abs
Accuracy	±1% (0-3 Abs) or ±0.003 Abs,whichever is greater at 405nm
Precision	CV = 0.2% (0.3-3 Abs) at 405nm
Shaking	Linear shaking with three modes :slow,medium,fast
Measurement Speed	7 seconds,96-well plate,fast mode 13 seconds,96-well plate,normal mode 13 seconds,384-well plate,fast mode 34 seconds,384-well plate,normal mode
Display	7" colorful touch screen
Interface	USB port for data transfer,USB port for printer
Size	410x290x210mm
Power supply	100-240V(50/60HZ)

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



**Analytical**  
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1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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