MICROPLATE READER Model DNM-9602
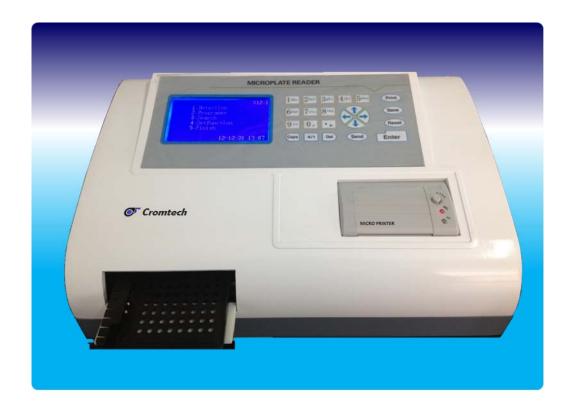

Main Functions

The instrument is compatible with registered diagnostic EIA kit, primarily used in hospitals or some detection related to clinical immunology.

Function and Technical Specifications

Fundamental parameters

- Range of working wavelength is from 400nm to 800nm ;

- Range of detection is from 0.000A to 4.000A ;

- Resolving power 0.001 A ;

- Filters when leaving factory 405nm, 450nm, 492nm, 630 nm, with the maximum array of 10 filters between 400nm - 800nm simultaneously.

- Reading speed: single wave :5s, dual waves:10s;

- Dimension: 420×325×210 mm (L×H×W)

- Weight: 9 kg;

- Monitor: 240*128 LCD

- Printer: Built in Printer

- Reader Speed :20s/96 Well

- Vibration Plate function :Strong/Weak: two gears

- Micro plate types :Should be able to read 6-,12-,24-,48-and 96-well micro plates

Microplate Reader

Technical Specifications:

1. Characters of the filters

Table 1: Characters of the Filters

Accuracy of wavelength (nm)	Half-width (nm)
±3.0	≤12

2. The errors of absorbance accuracy are as follows

Table 2: Absorbance Accuracy

Absorbance (A)	Accuracy Error
0.000-2.000	±0.01
> 2.000-3.000	±0.05
> 3.000-4.000	±0.15

3. The Linearity Errors are as follows:

Table 3: Linearity of the Instrument

Absorbance (A)	Error (%)
0.000-2.000	±1.0%
> 2.000-3.000	±2.0%
> 3.000-4.000	±5.0%

4. Reproducibility Error: ≤0.5%;

5. Stability Error: ≤ ± 0.005A/10min

Main Features

1. Provided with power on self-checking. Error data will display on LCD monitor if something wrong with the photoelectric system.
2. Filter choosing-mode: automatically
3. Detection mode: single wave/dual wave detection; single aperture /dual aperture detection
4. Input mode: key in film keyboard;
5. Input format: input capital letter/lowercase letter/number at random;
6. Item parameters: Provided with function of set/save/ modify/ inquiry 126 calibration parameters and curves, to make detecting course more conveniently.
7. Defection of calibration: with the function of calibration-defection, which can save/modify 126 parameters of calibration and curves.
8. Detection methods: absorbance /qualitative /quantitative detection
9. Saving function: can save the detection results on 105 pieces of plates
10. Output mode:
    Absorbance: display/printout originally absorbable value,
    Qualitative checking: display/printout absorbable value, critical value, S/CO, qualitative results;
    Quantitative checking: display/printout absorbable value, density, standard reference value, quantitative results
11. QC function: inquiry/printout the QC data and chart
12. Communication: equipped with RS-232 interface.
13. With self-monitoring function (real-time) on each testing light-source signal channel.
14. With dormancy function on light-source lamp.
15. With a CE Marked

Work Conditions

1. Environmental temperature: 10 ~ 30℃;

2. Relative humidity: ≤70%;

3. Power Supply : 220 x (1±10%)V ; 50 ×(1±2%) Hz;

   Fuse φ5×20 2A;

   Input power: 100VA

4. Keep away from strongly electromagnetic field and avoid direct irradiation by strong light;

5. Dustproof and shockproof on worksite; no aggressive gas; pollution level II

6. Power supply must be firmly grounded. Transient over voltage level II

7. Preheating time: 10min

8. Don't use instrument in damp environment.

9. Use CVT or Servo Controlled Voltage stabilizer for safe power & safety of equipment

Cromtech India