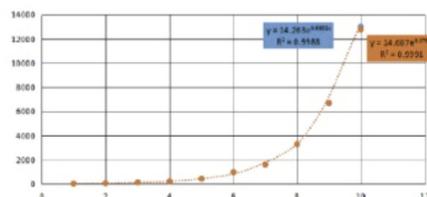


Microvolume Spectrophotometer



KMS-850



A microvolume spectrophotometer designed to measure the absorbance or concentration of molecules in extremely small sample volumes, typically in the microliter (μL) range. This technology has revolutionized the field of molecular biology, biochemistry, and genomics by enabling researchers to analyze precious samples with high accuracy

SALIENT FEATURES

- Microvolume Spectrophotometer has full wave length detection 190-850 nm.
- 4 Optical path detection Technology Mode, Stability, Repeatability, Linearity
- OD600 measurement optical path detection system, Nucleic Acid Test, Protein Analysis, Colorimetric Method, UV-Vis Detection, Kinetics
- Micro sample volumes can accurately detect nucleic acids, proteins, and cell solutions using only 0.5–2 μL of sample, protein, and cell solutions
- Cuvette Mode for bacteria and other culture fluid concentration detection.
- Nucleic acid assays can be performed by directly spotting the sample onto the sampling plate eliminating the need for colorimetric cups or capillaries.
- Quick and simple measurement steps.

Microvolume Spectrophotometer**SPECIFICATION**

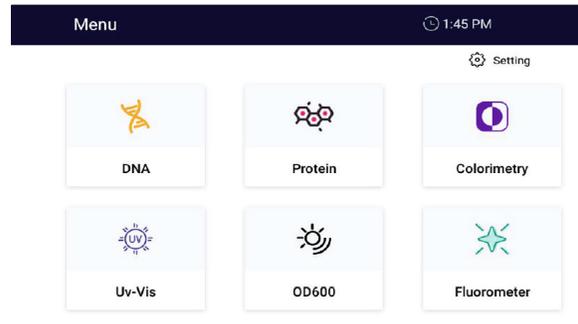
| MODEL | KMS-850 |
|-----------------------------------|--|
| Make | KLABS |
| Wavelength Range | 190-850nm |
| Sample Wavelength Scanning | 190 ~850nm |
| Sample Volume | 0.5-2 μ L |
| Optical Path (4) | 0.02mm, 0.05mm (high concentration measurement), 0.2mm, 1.0mm (general concentration measurement) |
| Nucleic Acid Testing Range | 2-27500ng/ μ L (dsDNA) |
| Light Source | Xenon flash lamp |
| Number of Detector | 1 |
| Detectors | UV-enhanced CMOS Line Array Sensors |
| Absorbance Accuracy | 0.002Abs (0.2mm Light Range), \pm 1% (7.332Abs at 260nm) |
| Absorbance Range | 0.02-3.00A |
| OD600 Absorbance Range | 0~6.000 Abs |
| OD600 Stability | (0.3) \leq 0.5%,(3.4) \leq 2% |
| Od600 Repeatability of Absorbance | (0.3) \leq 0.5%, (3.4) \leq 2% |
| Testing Time | <6Sec |
| Sample Base Material | Quartz Fiber and Stainless Steel |
| Display | 7" Touch Screen |
| Output | USB Interface |
| Operating System | Built-In Android OS |
| Printing | In-built Thermal Printer |
| Power Supply | Adaptor, AC 220V / 50Hz |
| Packing Dimension (LxWxH) | 555 x 410 x 330mm |
| Gross Weight | 10kg |

STANDARD ACCESSORIES: Main Instrument, Quartz Cuve es -2Nos., Sample Holder Box, Adaptor, Instruction Manual

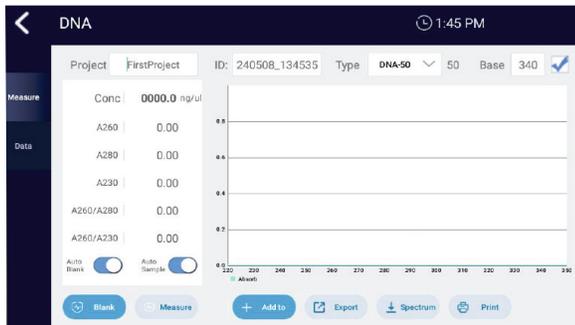
Microvolume Spectrophotometer KMS-850



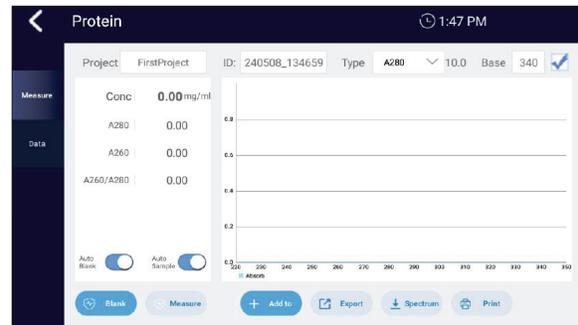
Instrument Self Test



Menu



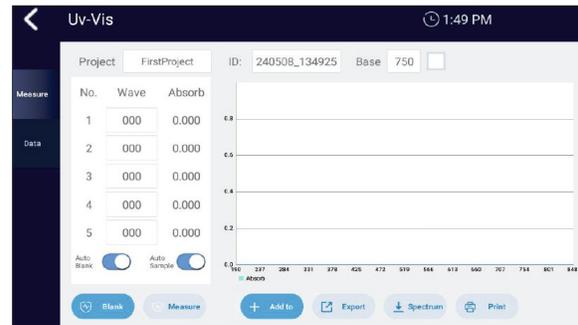
Nucleic Acid Testing



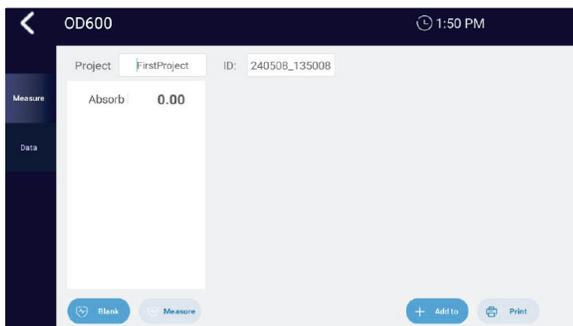
Protein Analysis



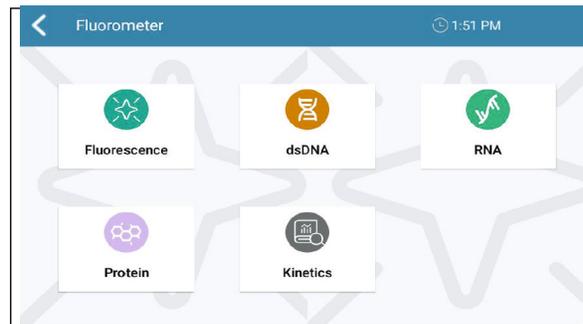
Colorimetric Method



UV-Vis.

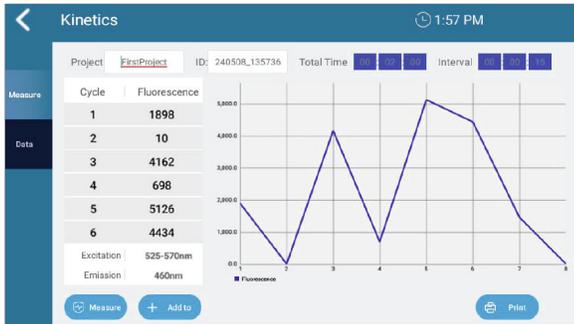


OD600



Filter Setup

Microvolume Spectrophotometer KMS-850

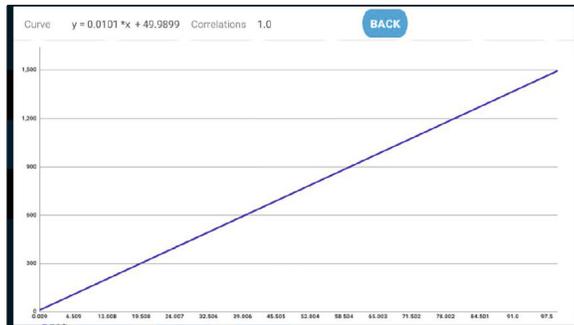


Kinetics Graph

The dsDNA table displays a list of samples with their respective measurements. The columns are Sample name, ng/ul, Fluor. mean, Fluor. 1, Fluor. 2, Fluor. 3, Fluor. 4, Fluor. 5, and Del.

| Sample name | ng/ul | Fluor. mean | Fluo. 1 | Fluo. 2 | Fluo. 3 | Fluo. 4 | Fluo. 5 | Del |
|-------------|-------|-------------|---------|---------|---------|---------|---------|-----|
| Sample1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Del |
| Sample2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Del |
| Sample3 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Del |
| Sample4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Del |
| Sample5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Del |
| Sample6 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Del |
| Sample7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Del |
| Sample8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Del |

dsDNA

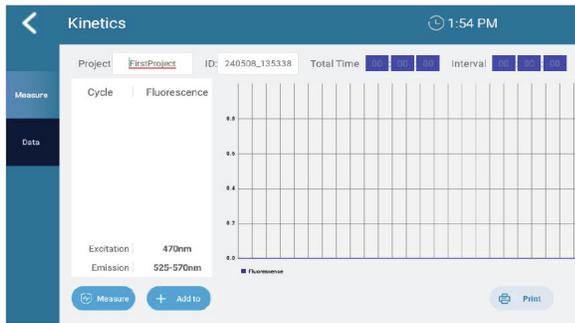


dsDNA Graph Display

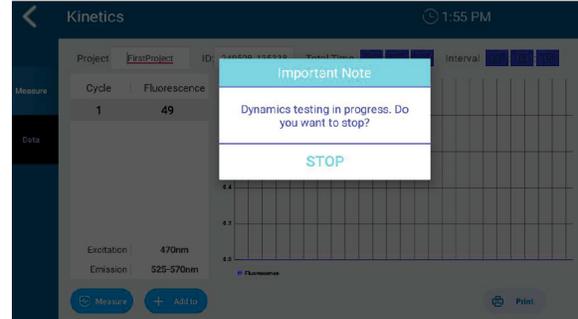
The dsDNA Project table displays a list of projects with their respective details. The columns are Project, ID, No., Fluorescence, C(ng/ul), Curve Name, and Time.

| Project | ID | No. | Fluorescence | C(ng/ul) | Curve Name | Time |
|--------------|----|------|--------------|----------|---------------------|------|
| FirstProject | 1 | 10 | 0.009 | vv | 2014-08-23 12:31:02 | |
| FirstProject | 2 | 10 | 0.009 | vv | 2014-08-23 12:31:16 | |
| FirstProject | 3 | 3304 | 137.647 | vv | 2014-08-23 12:31:35 | |

dsDNA Project



Kinetics



Kinetics Testing Progress

The System Setup screen displays various settings options:

- Time
- Language
- Upgrade
- Export type
- Version
- Management

System Setup