# ELISA Microplate Reader

Model **MSBKEL10ASWISS** | Brand **Master Science** | Unit **Pc**




ELISA Microplate Reader

The ELISA Microplate Reader (Model: MSBKEL10ASWISS) is an advanced analytical instrument used for detecting and analyzing specific components in biological, clinical, and research samples using enzyme-linked immunosorbent assays (ELISA) and similar experimental methods. It measures absorbance, fluorescence intensity, and chemiluminescence, making it essential in laboratories for quantitative analysis.

KEY HIGHLIGHTS

- Detection Mode
- Qualitative Analysis
- Quantitative Analysis
- Operating Mode
- Connectivity & Interface

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## Overview

The ELISA Microplate Reader (Model: MSBKEL10ASWISS) is an advanced analytical instrument used for detecting and analyzing specific components in biological, clinical, and research samples using enzyme-linked immunosorbent assays (ELISA) and similar experimental methods. It measures absorbance, fluorescence intensity, and chemiluminescence, making it essential in laboratories for quantitative analysis.

## Key Features

Equipped with a 10.1-inch capacitive touch screen (except for BK-EL10B) for ease of use.

Provides highly accurate results with advanced detection capabilities.

Supports single and double wavelength detection methods, ensuring flexibility in experiments.

BK-EL10D operates on a Windows interface, while BK-EL10DA operates on an Android interface.

USB and RJ45 ports, along with RS-232 connectivity, provide versatility for external devices such as printers and other peripherals.

**Detection Mode**
Single/double wavelength options, providing flexibility in data analysis.

**Qualitative Analysis**
Supports open CUT-OFF decision formulas, input of judgment conditions, validity conditions, and gray area settings.

**Quantitative Analysis**
Equipped with multiple quantitative analysis fitting algorithms such as linear, semi-log, natural logarithm, log-log, point-to-point, and four-parameter equations.

DISPLAY & CONTROLS

### Operating Mode
Can be operated via a touch screen, with support for an external keyboard and mouse.

### Connectivity & Interface

### Additional Information
The MSBKEL10ASWISS ELISA Reader is ideal for biological research, clinical diagnostics, and laboratories that require accurate quantification of specific components through absorbance or fluorescence-based assays. It offers reliable, high-performance analysis with an intuitive user interface and robust detection capabilities.

## Technical Specifications

| PARAMETER | SPECIFICATION |
|---|---|
| Measurement Channels | 8 vertical optical channels. |
| Plate Type | 96-well microplate. |
| Wavelength Range | 400–750 nm. |
| Filters | Comes standard with four wavelengths (405, 450, 492, 630 nm). |
| Reading Range | 0.000–3.000 Abs. |
| Linear Range | 0.000–3.000 Abs. |
| Resolution | 0.0001 Abs for precise measurements. |
| Repeatability | CV ≤1.0%, ensuring consistent results. |
| Stability | ≤ ±0.005 Abs for reliable performance. |
| Sensitivity | ≥0.01 mg/L. |
| Channel Difference | ≤0.02 Abs, maintaining uniformity across channels. |
| Display | Large 10.1-inch color capacitive touch screen. |
| Interfaces | 4 x USB 2.0, 1 x RJ45 network port, 1 x RS-232. |
| Dimensions | 45 × 33 × 30 cm. |
| Net Weight | 13 kg. |
| Power Supply | AC 220V ±10%, 50-60Hz. |
| Vibration Plate Function | Adjustable vibration settings with three types of vibration modes (0–255 seconds). |

## Optional Accessories

- Compatible with external USB and network port printers (A4 printers optional).