

LCD Digital Biological Trinocular Microscope with Optional 5M Camera



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Product Introduction: The MSDM125SWISS LCD Digital Biological Trinocular Microscope is designed for advanced microscopy applications, combining high optical performance with modern digital capabilities. With an optional 5-megapixel camera, this microscope offers the perfect solution for laboratory, research, and educational use, providing crisp and detailed imaging for biological samples.

Key Features:

- **Optical System:**

- The microscope is equipped with a **finite optical system**, ensuring high-quality imaging for various biological observations.
- **Viewing Head:**
 - A **Seidentopf Trinocular Viewing Head** inclined at 30°, offering comfort during extended periods of use. It also supports **interpupillary distance adjustment** between 48mm and 75mm, accommodating various users.
- **Eyepiece:**
 - Wide Field Eyepiece **WF 10×/18** for enhanced field of view, providing detailed observations with minimal strain.
- **Objective:**
 - Comes with **Achromatic Objectives** of **4×, 10×, 40×, and 100×**, allowing magnifications suitable for a range of biological specimens, from general observations to high-power oil immersion studies.
- **Nosepiece:**
 - Features a **Backward Quadruple Nosepiece**, enabling easy and efficient switching between objectives.
- **Stage:**
 - Includes a **Double Layer Mechanical Stage** measuring **140mm × 140mm**, with a movement range of **75mm × 50mm**. This, paired with the **NA1.25 Abbe Condenser**, ensures precise control over specimen positioning and excellent light transmission for high-contrast imaging.
- **Focusing System:**
 - The **Coaxial Coarse and Fine Adjustment** mechanism offers smooth, precise focusing with a **fine division of 0.002mm** and a **25mm moving range**, making it ideal for detailed examinations.
- **Illumination:**
 - Equipped with **S-LED Illumination** that provides consistent, bright lighting for samples. The brightness is fully adjustable to suit varying observation conditions.
- **Optional 5M Camera:**
 - Option to integrate a **5 Megapixel digital camera**, allowing real-time imaging and digital documentation of the observations, perfect for research or teaching environments.
- **Power Supply:**
 - Powered by **AC220V, 50Hz**, making it compatible with standard power sources in most regions.

Technical Specifications:

- **Optical System:** Finite Optical System
- **Viewing Head:** Seidentopf Trinocular, 30° Inclined, Interpupillary 48-75mm
- **Eyepiece:** Wide Field WF 10×/18
- **Objective:** Achromatic 4×, 10×, 40×, 100×
- **Nosepiece:** Backward Quadruple
- **Stage:** Double Layer Mechanical Stage (140mm × 140mm), Moving Range (75mm × 50mm)
- **Condenser:** NA1.25 Abbe Condenser
- **Focusing System:** Coaxial Coarse & Fine, Fine Division 0.002mm, Moving Range 25mm
- **Illumination:** S-LED, Adjustable Brightness
- **Power Supply:** AC220V, 50Hz
- **Packing Size (Main Body):** 380mm × 270mm × 470mm
- **Gross Weight:** 8.5 kg

Applications: The **MSDM125SWISS** is ideal for:

- Biological and medical research.
- Educational institutions for advanced teaching.
- Clinical diagnostics.
- Documentation and digital imaging for research and presentations with the optional camera.

This microscope provides users with high precision, adaptability, and the latest digital integration for efficient and modern microscopy applications.