



**Product Code . JL-M-8086**

## **Advanced Infinity Corrected Digital Trinocular Microscope with LCD Touch Pad**

### **Description**

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Advanced Infinity Corrected Digital Trinocular Microscope with LCD Touch Pad

#### **Description:-**

A new generation of microscopes features High Contrast (HC) infinity corrected plan optics.

The Compact body is designed for flexibility which can perform various applications such as brightfield, darkfield, phase contrast, and polarization.

Equipped with 5w LED lamp, field diaphragm, Abbe condensers and other optical components.

Trinocular microscope can be equipped with digital camera and LCD screen for photo and video documentation and image analysis.

The standard Kohler illumination system provides uniformly bright and free-from-glare specimen illumination, which optimizes a high image quality with brighter and sharper resolutions for photomicrography.

With 8", 1024 x 768 high resolution screen, LCD8.0 has great color fidelity and offers smooth images.

LCD8.0 uses the same quality LCD screen as Apple iPad.

Latest LCD technique significantly improve the screen brightness, coupled with IPS technology to

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reduce the light reflection, you can get a same sharp and clear screen from any angle.

Instead of the observing through microscope eyepieces, with LCD8.0 you can do the target searching, focusing through the screen easily.

With up to 5-point multi-touch screen LCD8.0 control is just at your fingertips.

Integrated with the 2MP camera, LCD8.0 allows high speed image acquisition.

It improves image dynamic range and detail quality.

Furthermore, LCD8.0 utilize the special designed image processing chip for the built-in cameras.

LCD8.0 has built-in software and operation system, just starting camera, the live image presents in front of you immediately. You can save the picture on your system memory or to your external storage devices like mini SD Card or USB devices.

Don't worry parameter adjustment, LCD8.0 takes care of all the parameters like white balance, exposure time etc automatically.

### Specification:-

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| <b>Viewing Head</b> | JLab trinocular head which will not change the length in the eyepiece tubes when inter            |
|                     | 30° inclined and 360° rotatable, fully up or down swiveled eyepiece tubes to adjust the           |
|                     | Interpupillary adjustment of 48mm-75mm  |
| <b>Eyepiece</b>     | Wide field (WF)10x/22mm   |
|                     | High eyepoint, with eyeguard  |
|                     | Both eyepieces are diopter adjustable, which allows the image and reticule to be broug            |
|                     | Optional reticule eyepiece for measurement purposes; choice of 0.1mm/1cm grid, 0.1m<br>(included) |
| <b>Nosepiece</b>    | Revolving reversed quintuple objective nosepiece accepts five objectives which are co             |

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|                        | <p>The nosepiece runs on ball bearings and has internal click stops so that the image remains in focus when the objective is changed.</p>   |
| <b>Objectives</b>      | Infinity corrected, high contrast (HC) Plan Achromatic DIN 4X/0.10 $\lambda$ /0.17  |
|                        | Infinity corrected, high contrast (HC) Plan Achromatic DIN 10X/0.25 $\lambda$ /0.17   |
|                        | Infinity corrected, high contrast (HC) Plan Achromatic DIN 20X/0.40 $\lambda$ /0.17   |
|                        | Infinity corrected, high contrast (HC) Plan Achromatic DIN 40XR/0.65 $\lambda$ /0.17 (Retractable)  |
|                        | Infinity corrected, high contrast (HC) Plan Achromatic DIN 100XR/1.25 oil $\lambda$ /0.17 (Retractable)   |
|                        | 40XR and 100XR objectives are retractable which have resilient mounts for specimen protection.  |
| <b>Focusing System</b> | Low position coaxial coarse and fine focus knobs  |
|                        | 37.7mm per coarse rotation  |
|                        | 0.1mm per fine rotation, fine focus graduation of 1 $\mu$ m   |
|                        | Focusing range 16mm   |
|                        | Tension adjustment eliminates focus drift   |
| <b>Stage</b>           | 216mmx150mm built-in double layer mechanical stage  |
|                        | Smooth X/Y calibrated movement with cross travel range 7.5cm x 5.5cm  |
|                        | Non-extending rack  |
|                        | Graphite surface, rounded edges   |
| <b>Illumination</b>    | Built-in Kohler illumination with field diaphragm, provides uniformly bright and free-from glare illumination   |
|                        | N.A. 1.25 Abbe condensers which height is controlled by a rack and pinion gear system for proper illumination of the specimen   |
|                        | Adjustable aperture iris diaphragm incorporated into the condenser, which is important for resolution of field; a graduated scale indicates the approximate adjustment (size) of the aperture |

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|   | 5w LED for optimum illumination and contrast (5w LED available but not included)   |
|   | With light intensity control   |
| <b>Imaging</b>  | Trinocular phototube (50% vis, 50% doc) with 10MP digital eyepiece camera and 8" LCD live video of the specimen on a computer or screen. |
|   | 0.5x C-mount included  |
| <b>Other characters</b>                                   | Ergonomically designed metal frame for stability and durability  |
|   | Carrying handle integrated in the back of the stand for easy carrying  |
|   | Arm and base made of one piece construction  |
|   | Antifungal treatment prevents fungal growth  |
|   | Cord holder for convenient storage   |
| <b>Optional Accessory</b><br><br>Available (not included) | Dark field kit   |
|   | Phase contrast kit   |
|   | Polarizing kit   |
| <b>Camera Main Features</b>                               | 8" Color LCD & Touch Screen 360° horizontal rotatable / 90° vertical rotatable   |
|   | Free life-time software upgrade  |
|   | 2MP high resolution, 1024 x 786 display  |
|   | Blue-tooth & Wi-Fi   |
|   | CPU Dual-core 1.41GHz  |
|   | Operating System Android 4.1.1   |
|   | Memory: 1G (DDR3)  |
|   | Storage: Internal 4 GB or External Mini SD Card  |
|   | Windows, Mac, Linux compatible   |
|   | Output Ports: 1x HDMI port; 1x USB 2.0; 1x Mini USB 2.0  |
|   | Power Supply: Input: AC110v-220v; Output: DC 5v  |

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|  | 0.35x Relay lens, external power adapters, HDMI cable |
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