

# Mikrosize®

## iMetal-100/400

### Portable Metallographic Microscope



Video



#### Contact us

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## Product Features and Application

### Product Features

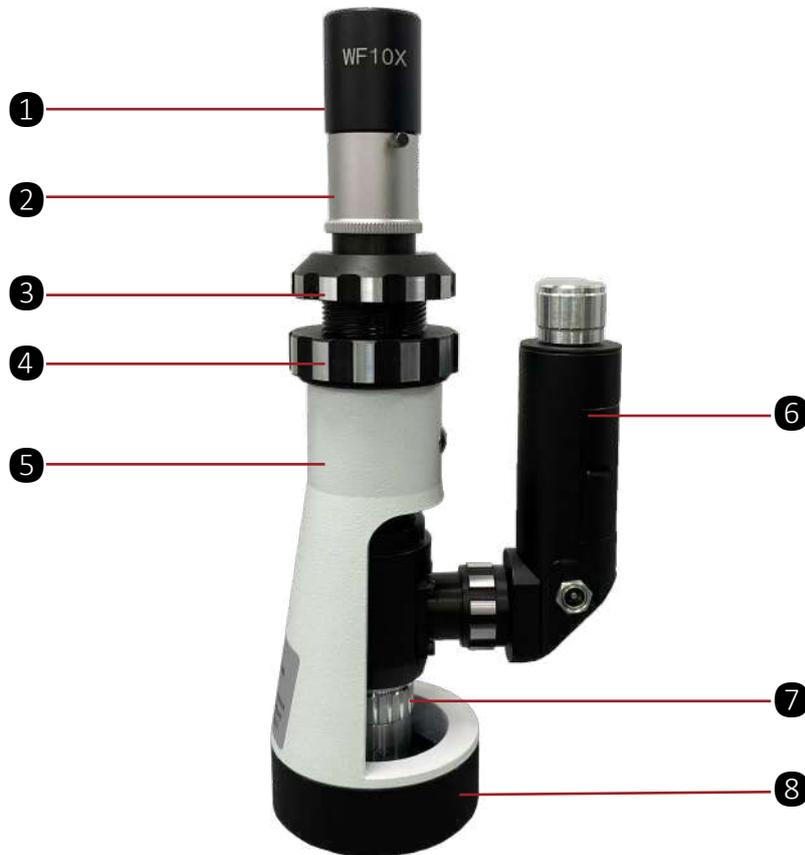
- With built-in vertical lighting source, coaxial LED lighting, adjustable brightness, can work continuously for 48 hours;
- Magnetic two-dimensional moving and self-rotating 360° workbench, convenient for on-site sampling;
- It can be used with camera and metallographic analysis software;
- With coarse and fine focusing hand wheel, more precise focusing;
- Light weight, easy to carry and use.

### Product Application

- Used for casting quality appraisal, raw material inspection, research and analysis of metallographic structure after material processing, etc.
- Observe antique gemstones and their surfaces in detail;
- After selecting a digital camera system, computer and metallographic analysis software, the computer can process, edit, save and output images;



## Product Structure



**1.Eyepiece**

**2.Adapter**

**3.Micro handwheel**

**4.Coarse handwheel**

**5.Machine mainframe**

**6.Coaxial light sources**

**7.Objective**

**8.Machine base**



## Imaging Advantage



- **10X achromatic objective lens helps reduce chromatic aberration and make the color of the image more realistic and natural;**
- **Built-in vertical lighting source ensures that the light can fully illuminate the sample surface;**
- **Coaxial LED lighting can provide uniform and stable light.**

## Technical Specification

|                          |  |
|--------------------------|--|
| <b>Eyepiece</b>          | Plan Eyepiece 10X $\Phi$ 18mm  |
| <b>Objective</b>         | Achromatic objective 10X NA0.25 WD7.3mm<br>Metallographic objective 40X NA0.65 WD0.5mm |
| <b>Magnification</b>     | 100X、400X  |
| <b>Focusing Range</b>    | Coarse handwheel focusing range: 23mm<br>Fine handwheel focusing range: 1.5mm          |
| <b>Machine Dimension</b> | 320*240*110mm  |
| <b>Packing Dimension</b> | 380*300*150mm  |
| <b>Net Weight</b>        | 3kg  |
| <b>Gross Weight</b>      | 4.5kg  |
| <b>Light Source</b>      | LED coaxial light source   |
| <b>Voltage</b>           | 220V 50/60Hz   |
| <b>Packing Box</b>       | Aluminium box  |

## Technical Specification

**Machine Mainframe**



**LED Coaxial Light Sources**



**10X, 40X Objective**



**10X Eyepiece**



**Charger**



**Aluminum Packaging Box**



## Optional Delivery

**Digital Camera System:  $\geq 5$  million pixels**

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**Specialized Adapter**

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**Branded Computer**

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**Metallographic Analysis Software**

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**Magnetic Base**

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