

## L2003



- **L2003**series reflected metallurgical microscopes are suitable to observe the surfaces of the non-transparent object. They are equipped with vertical illuminator, plan achromatic objectives with long working distance (no cover glass), wide-field eyepieces and set polarizer device in trinocular. They provide the clear and high-contrast picture, convenient operation and etc. They are the ideal instruments for research work in metallography, mineralogy, precision engineering, electronics and etc. They are suitable for scientific research, teaching demonstration in the colleges and factory.

### Features

- ▲ With plan, achromatic objectives with long working distance (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field.
- ▲ Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing:  $2\mu\text{m}$ .
- ▲ 6V 20W Halogen lamp, adjustable control.
- ▲ Trinocular, can switch to observe normally or to observe the polarized, can send 100% of light to the binocular eyepieces or to the top port.

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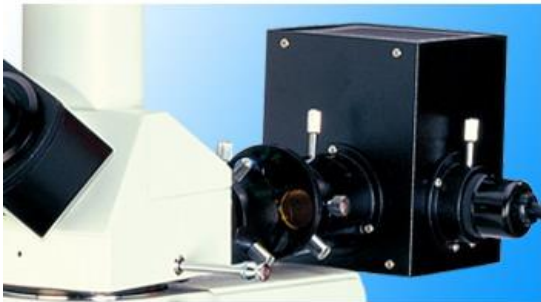
### Observation System

Trinocular, single diopter adjustment, inclined 30° and integrated analyzer, it can be connected to the camera.

10X wide field plan eyepiece, field  $\Phi$ 18mm, can provide expanse and smooth observation space. Another eyepiece is 10X division eyepiece used for proofreading the centre.

### Stage:

Double layer mechanical stage, size of 185mmX140mm, move range: 75mmX50mm. The design is in reason so that the operator feel easy and comfort.



### Epi-illumination system

6V 20W, halogen lamp, brightness adjustable.

Integrated field, aperture diaphragm and (Y, B, G, ground glass) switching device. Puller polarizer can be circum-rotated for 90° .

### Photography Unit

By adding the appurtenance such as CCD adapter, digital camera adapter and single-reverse digital camera adapter and etc. It can achieve high clear observation mode of camera and vidicon



## Specification

### Standard Configuration

| Model     | L2003A  | L2003B  |
|-----------|---|---|
| Eyepiece  | Wide field WF10X( $\Phi$ 18mm)  |   |
| Objective | Plan achromatic objectives with long working distance (no cover glass) PL 5X/0.12 | Plan achromatic objectives with long working distance (no cover glass) PL 5X/0.12 |

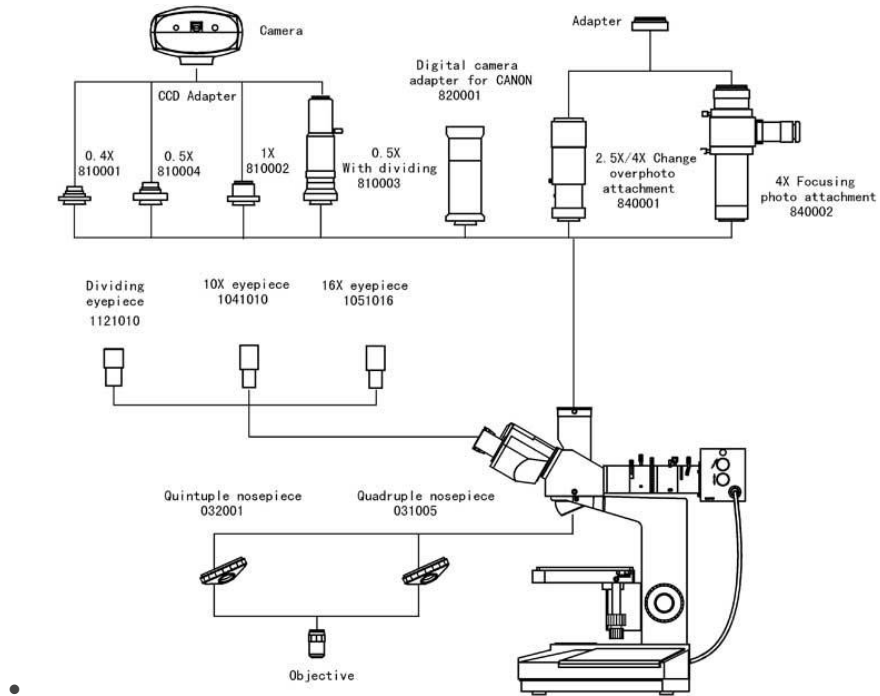
|                            |  |  |
|----------------------------|--|--|
|                            | Plan achromatic objectives with long working distance (no cover glass) PL L10X/0.25                              | Plan achromatic objectives with long working distance (no cover glass) PL L10X/0.25          |
|                            | Plan achromatic objectives with long working distance (no cover glass) PL L40X/0.60                              | Plan achromatic objectives with long working distance (no cover glass) PL L20X/0.40          |
|                            | Plan achromatic objectives with long working distance (no cover glass) PL L60X/0.75 (Spring )                    | Plan achromatic objectives with long working distance (no cover glass) PL L40X/0.60          |
|                            |  | Plan achromatic objectives with long working distance (no cover glass) PL L60X/0.75(Spring ) |
| Eyepieces tube             | Trinocular, Inclination of 30°, (Analyzer with field diaphragm to switch)  |  |
| Vertical illumination unit | 6V 20W, Halogen lamp, adjustable control   |  |
|                            | Vertical illumination With field diaphragm, aperture diaphragm and polarizer, (Y,B,G) filter and frosted filter  |  |
| Focus system               | Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2µm. |  |
| Nosepiece                  | Quadruple Backward ball bearing inner locating   | Quintuple Backward ball bearing inner locating   |
| Stage                      | Double layer mechanical ( Size:185mmX140mm,moving range:75mmX50mm)   |  |

- Optional accessories

| Name        | Sort/Technique parameter   | NO.     |
|-------------|--|---------|
| Eyepiece    | Wide field WF16X(Φ11mm)  | 1051016 |
|             | Dividing 10X(Φ18mm) 0.1mm/Div  | 1121010 |
| Objective   | Plan achromatic objectives with long working distance (no cover glass) PL L 50X/0.70           | 2250150 |
|             | Plan achromatic objectives with long working distance (no cover glass) PL L 80X/0.80           | 2250180 |
|             | Plan achromatic objectives with long working distance (no cover glass) PL L 100X/0.85 (Spring) | 2250111 |
|             | Plan achromatic objectives (no cover glass) PL 100X/1.25 (Spring, oil)                         | 2240111 |
| CCD adapter | 0.4X   | 810001  |
|             | 0.5X   | 810004  |
|             | 1X   | 810002  |
|             | 0.5X with dividing 0.1mm/Div   | 810003  |
| Camera      | DV-1 With USB & video output   | 800001  |
|             | DV-2 With USB output   | 800003  |
|             | DV-3 With video output   | 800005  |
| Photo unit  | 2.5X/4X Change over photograph attachment with 10X viewing eyepiece                            | 840001  |
|             | 4X Focusing photograph attachment  | 840002  |
|             | MD Adapter   | 840003  |

|                        |                            |        |
|------------------------|----------------------------|--------|
|                        | PK Adapter                 | 840004 |
| Digital camera adapter | CANON(A610,A620,A630,A640) | 820001 |

## Diagram



## Dimensions

