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# A13.0900

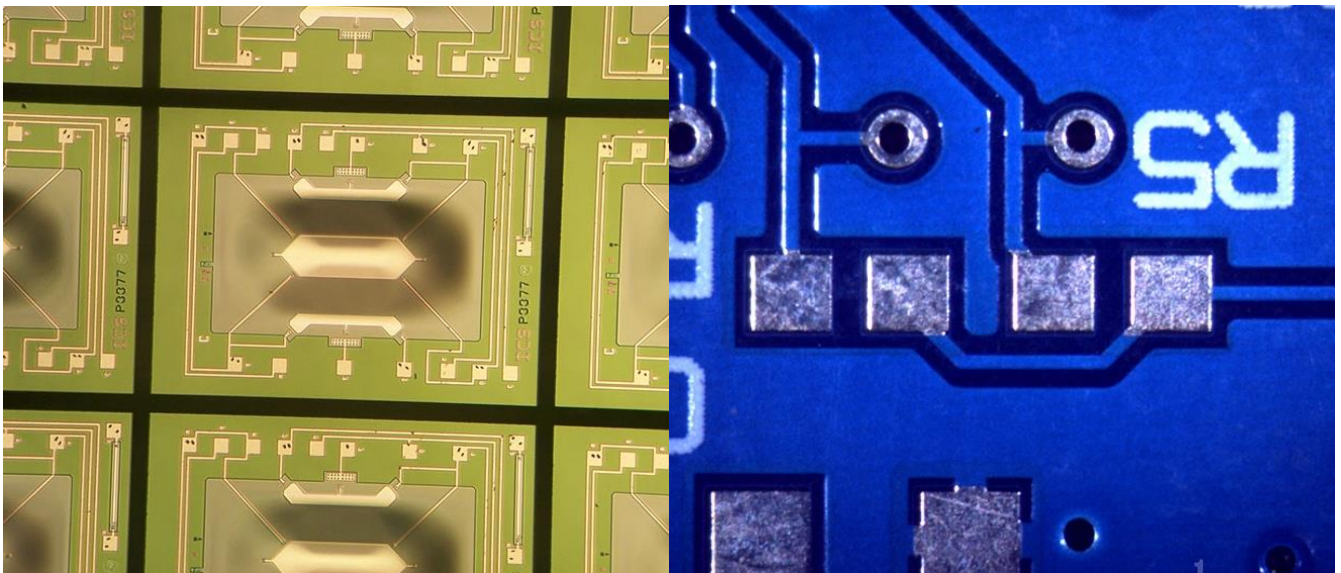
Metallurgical Microscope, DIC, APO





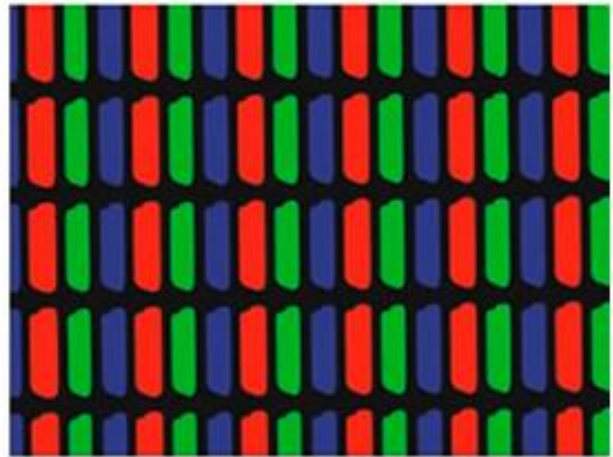
### **A13.0900 Metallurgical Microscope**

Industrial detection level microscope body, low center of gravity, high rigidity, high stability metal body, can improve the shakeproof and image stability. Preposed low position coaxial coarse and fine focus system, built-in 90~240V wide voltage. Perfect cooling system for long time use without overheating.





FPC 10x Dark Field View



LC 10x Transmit Light Bright Field View



**A13.0900** Bright Field Reflect Illuminator Single 5W LED, With Oblique Illumination  
**A13.0901** Bright Field Reflect Illuminator Single 12V100W Halogen Lamp



CCD & Photo Adapter



Erect gemel trinocular head



Reflect 5W LED Illumination, With Oblique Illumination Switch,  
To See 3-D Image Clearly



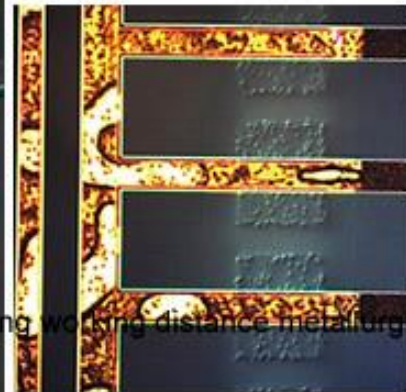
FPC 10x Bright Field View



FPC 10x Oblique Illumination



Nomarski DIC prism, can show obvious emboss for the small high-low difference increase the image contrast. 5x, 10x, 20x are specially designed for DIC



Conducting Particles  
20x DIC



LMPL-BD Infinity long working distance bright/dark field metallurgical objective

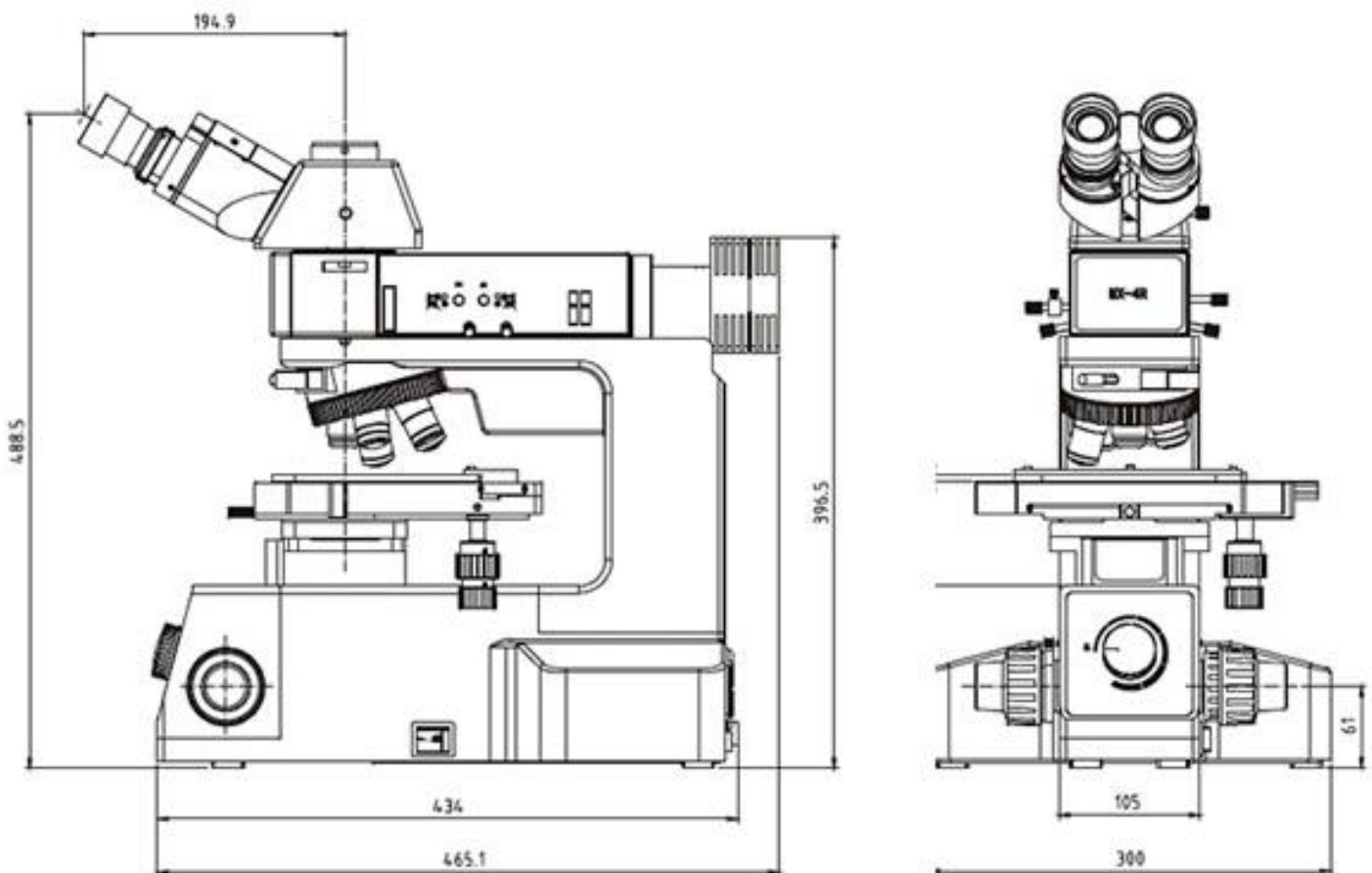


LMPL-BD Infinity long working distance bright/dark field metallurgical objective



Use 12V100W halogen illumination, choose LBD sunlight filter, to get soft bright and white background. In industry use, choose other filter to adjust the light spectrum to get the best image result.

## Product Diagram



**A13.0900 Metallurgical Microscope. System Dimension**

## Product Specification

| A13.0900 DIC Metallurgical Microscope |                                                                                                                                                                                                                            |                      | A | B |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---|---|
| Alternative Method Of Observation     | Bright Field/Oblique Light, Polarizing, DIC                                                                                                                                                                                |                      | • |   |
|                                       | Bright Field/Oblique Light, Polarizing, DIC , Transmit Light                                                                                                                                                               |                      |   | • |
| Optical System                        | Infinity Color Corrected Optical System                                                                                                                                                                                    |                      | • | • |
| Head                                  | 30° Inclined Trinocular, Splitting Ratio 100:0 or 50:50                                                                                                                                                                    |                      | • | • |
| Eyepiece                              | High Eyepoint Plan PL10x/22mm                                                                                                                                                                                              |                      | • | • |
| Objective                             | Long Working Distance Infinity Plan Metallurgical DIC Achromatic                                                                                                                                                           | LMPL5x/0.15 WD10.8MM | • | • |
|                                       |                                                                                                                                                                                                                            | LMPL10x/0.3 WD10MM   | • | • |
|                                       |                                                                                                                                                                                                                            | LMPL20x/0.45 WD4MM   | • | • |
|                                       | Long Working Distance Infinity Plan Metallurgical Semi-APO                                                                                                                                                                 | LMPL50x/0.55 WD7.8MM | • | • |
| Nosepiece                             | Reversed, Quintuple, With DIC Slot                                                                                                                                                                                         |                      | • | • |
| Stage                                 | 4"Double Layer Mechanical Stage, Moving Range 105*105mm, With Metal Flat Stage, Right Hand Position, XY Moving Hand Wheel, with Stage Adaptor                                                                              |                      | • |   |
|                                       | 4"Double Layer Mechanical Stage, Moving Range 105*105mm, With Glass Stage, Right Hand Position, XY Moving Hand Wheel, With Stage Adaptor                                                                                   |                      |   | • |
| Focusing                              | Coaxial Coarse & Fine Focusing, Coarse Focus Range 33mm, Fine Focusing Precision 0.001mm, With Coarse Adjustment Stop and Tightness Adjustment                                                                             |                      | • | • |
| Illumination                          | Reflect Illumination, With Iris Field Diaphragm and Aperture Diaphragm, Central Adjustable, With Filter Slot and Polarizing Slot, With Oblique Illumination Switch. Single High Power 5W LED, White, Brightness Adjustable |                      | • | • |
|                                       | Transmitted Illumination, Single High Power 5W LED, White Brightness Adjustable, N.A.0.5 Condenser, with Iris Diaphragm                                                                                                    |                      |   | • |
| Power                                 | 90-240V Wide Voltage, One Way Power Output                                                                                                                                                                                 |                      | • |   |
|                                       | 90-240V Wide Voltage, Double Way Power Output                                                                                                                                                                              |                      |   | • |

## Optional Accessories

| A13.0900 DIC Metallurgical Microscope Optional Accessories |                                                                                 |                            |                |
|------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------|----------------|
| Eyepiece                                                   | High Eyepoint Plan PL15x/16mm PL15x16                                           |                            | A51.0903-1516  |
|                                                            | High Eyepoint Plan PL10x/22mm, with Cross PL10x22r,                             |                            | A51.0905-1022R |
|                                                            | High Eyepoint Plan PL10x/22mm, Diopter Adjustable, PL10x22T                     |                            | A51.0904-1022T |
| Objective                                                  | Long Working Distance Infinity Plan Metallurgical Semi-APO LMPL100X/0.8 WD2.1MM |                            | A5M.0938-100   |
| DIC                                                        | DIC Attachment Set                                                              |                            | A5M.0950       |
| Filter                                                     | Interface Filter For Reflect Illumination                                       | Blue, <480nm               | A5M.0951-B     |
|                                                            |                                                                                 | Green, 520~570nm           | A5M.0951-G     |
|                                                            |                                                                                 | Red, 630~750nm             | A5M.0951-R     |
|                                                            |                                                                                 | Natural, for White Balance | A5M.0951-LBD   |
| Other                                                      | Specimen Presser                                                                |                            | A5M.0920       |
| Polarizing                                                 | Fixed Polarizer Flashboard, Dia.30mm                                            |                            | A5P.0920-RP    |
|                                                            | 360° Rotatable Analyser Flashboard                                              |                            | A5P.0920-TA    |
|                                                            | Fixed Analyser Flashboard, Dia.30mm                                             |                            | A5P.0920-RA    |
| Adapter                                                    | 0.5x C-Mount, for 1/2"CCD, Focus Adjustable                                     |                            | A55.0928-50    |
|                                                            | 1.0x C-Mount, Focus Adjustable                                                  |                            | A55.0928-10    |
|                                                            | Digital Camera Adapter with Photo Eyepiece                                      |                            | A55.0910       |

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MICRO  
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