

DESCRIPTION

Upright Metallurgical Microscope ACUMM-U5 BD (Bright Field / Dark Field BF/DF) is suitable to observe surface of opaque object. It is equipped with UIS optical system and modularization function design so that provided excellent optical quality and operation performance, update system expediently and achieved polarization, dark field observation. This is ideal optical instrument for micro observation in metallographic structure and surface morphology. It is suitable for research in Metallography, Mineralogy, Precision engineering, etc.

Modes:

- *Bright Field*
- *Dark Field*
- *Polarization*

**FEATURES**

- UIS optical system and modularization function design
- Ergonomic design, low location of coaxial focus system
- Long working distance (no cover glass) and wide-field eyepieces
- Complete optional accessories.
- Large moving range mechanical stages, Travel : 8"X8" (204mm X 204 mm)

TECHNICAL SPECIFICATION

Eyepiece	Compensating Wide Field 10X plan eyepiece pair and field of view number is $\Phi 22$ mm, diopter adjustment facility on both eyepiece oculars.
Objective	Infinity plan achromatic objectives , Anti –fungal coated objectives (Bright field and Dark field): PL L5X/0.12BD, Working Distance 9.7mm PL L10X/0.25BD, Working Distance 9.3mm PL L20X/0.40BD, Working Distance 7.2mm PL L50X /0.70BD, Working Distance 2.5mm PL L80X /0.80BD, Working Distance 0.8mm PL L100X /0.85BD, Working Distance 0.4mm (OIL/DRY)
Observation Head	Sidentopf Trinocular Observation Head inclined at 30°/45°, Inter Pupillary Distance 50~75 mm. Light Distribution 100%:0 for switching between camera & eyepieces
Focusing system	Coaxial coarse/fine focus system, with tension adjustable device, Manual Focus adjustment 20mm, minimum division of fine focusing: 2.0 μ m
Nosepiece	Quintuple (Backward ball bearing inner locating)
Stage	Three Layer Mechanical Scratchless stage, low positioned coaxial controls on ball bearing guide ways, overall size : 280mmX270mm, X-Y moving range:204mmX204mm
Epi Illumination system	3W White LED OR 12V50W halogen. Integrated field diaphragm, aperture diaphragm, adjustable brightness.
Polariser Analyzer	Analyzer rotatable at 360°. Polarizing & analyzer can be slide in/out of the optical path.(Push-pull type)
Filter	Blue, Green, Yellow, Frosted
Condenser	Abbe Condenser NA 1.25 Rack & Pinion adjustable
Standard Accessories	Dust Cover, Operating Manual

PRODUCT FEATURES



Observation system

The gemel mode trinocular is inclined 30 degree. The operator cervix and shoulder are released from tired in period of time keeping bow or head-u.p.

The eyepiece field of view number is $\Phi 22\text{mm}$ and eyepatch can be added.

Mechanical Stage

The large-mobile range mechanical stage is adapted to observation big size specimen or quick check.

size: 280mmX270mm

moving range: 204mmX204mm.

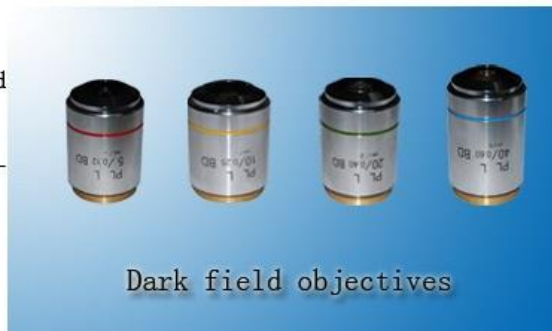


Epi-illumination system

Integrated field diaphragm, aperture diaphragm and (Y, B, G, frosted glass) switching device. Push-pull analyzer and polarizer

Dark Field Observation

Equip high quality bright and dark field objectives and dark field illumination device. Avoid the stray light of illumination system and improve the image quality in the dark field.

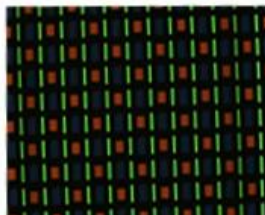


Dark field objectives

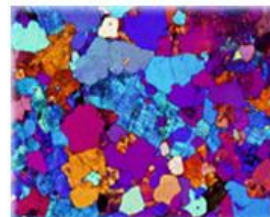
Digital camera photography:



Dark type observe



Bright type observe



Polarized observe

