

#### DESCRIPTION

**U**pright Metallurgical Microscopes are suitable to observe microstructure of Metallographic opaque or transparent object. ACUCAL Upright Metallurgical microscopes are equipped with sophisticated optical system and modularization function design so that provided excellent optical quality and operation performance. The microscope is having superb capability to reveal significant specimen details with outstanding relief in black and white or brilliant colors.



This is ideal optical instrument for non destructive testing of materials in ceramics, textile, petrochemicals, defence, R&D establishments . It can be used in scientific research & universities for metallography, mineralogy, precision engineering etc.

#### TECHNICAL SPECIFICATION

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|----------------------|--|
| Standard Eyepiece    | Wide Field 10X/ Ø18 eyepiece pair  |
| Optional Eyepiece    | 5X, 15X & 20X eyepiece pair<br>Micrometer Eyepiece 10X Magnification                                       |
| Standard Objective   | Achromatic objectives (Bright field, Parfocal and precentered):<br>10X, 45X,                               |
| Optional Objective   | 5X, 20X , 50X, 100X (Oil/Dry),   |
| Magnification        | 100X,450X (With standard eyepiece & objective)<br>25X to 2000X (With optional eyepiece & objective)        |
| Eyepiece tube        | Binocular/Trinocular Head having Hard Coated Prism, inclined<br>at 45°, Inter Pupillary Distance 55~75 mm. |
| Focusing system      | Coaxial coarse/fine focus system, with tension adjustable<br>device, Manual Focus adjustment               |
| Nosepiece            | Quadruple (Forward ball bearing inner locating)  |
| Mechanical stage     | Two layer, Three axis moveable, coaxial x-y movement,<br>Overall size:128mmX86mm, X-Y travel: 30mm x 30mm  |
| Illumination system  | 6V 20W Halogen, 220V AC/50Hz, Adjustable Brightness, On<br>and off switch Integrated Iris diaphragm.       |
| Filter               | Blue, Green & Yellow   |
| Standard Accessories | Dust Cover, Operating Manual   |

#### FEATURES

- Metallic structure 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.
- Horizontal Illumination with centering provision.
- Heavy Duty Transformer
- Spring loaded objectives at high magnification to avoid damage to optics or specimen.
- Perfect transmission system having localized illumination and flatness of field.