

## CFM Series Microscope

### Unparalleled Value & Performance

Engineered and built upon years of tradition, value and excellence, UNITRON returns to the field of Forensic Science with the introduction of its new CFM Series Microscope.

UNITRON's CFM Series Microscope offers unsurpassed value and performance for the inspection of ballistics, firearms and toolmarks.

With a choice of either a tilting ( $0^{\circ}$ - $35^{\circ}$ ) or standard ( $45^{\circ}$ ) binocular viewing head, evidence can be observed simultaneously via the precision engineered comparison bridge that supports two sets of matched objective sets on a 5-step magnification changer.

The CFM Series is equipped with 22mm field of view eyepieces and produces erect, unreversed images that move in the same direction as the specimen for ease of use.

With our unique one-touch sync, each light setting can be easily matched for both sides.



## Comparison Forensic Microscope

### Standard Specifications

- 5 matched magnification steps - 0.8x, 1.25x, 2x, 3.2x and 4.8x
- Images can be viewed as 100% right, 100% left, split or superimposed
- The split image dividing line can be adjusted to any desired line width, offering maximum flexibility
- CWF 10x eyepieces, 22mm field of view and CWF 20x eyepieces, 13mm field of view
- Working distance – 95mm
- Two 65mm diameter circular, ball bearing precision stages with horizontal coaxial stage controls
- The stage movement ranges when moved independently are 56mm of X-axis, 56 mm of Y-axis and 56mm of Z-axis movement
- Stage movement range when using the combined focus block is 80mm on the Z-axis movement
- Universal bullet holder allows for the rotation and inclination of objects along a 90° vertical to horizontal positioning range on a 360° rotatable platform.
- 2.5 watt Circular LED Ring Light mounted to each optical system
- Two 3 watt LED flexible light guides with focusing lenses or two 9 watt fluorescent lights
- A wide range of stage mounting plates, wire holders, bullet and cartridge holders
- Built-in touch pad to control and sync all lighting options
- Interpupillary distance adjustment range of 55 – 75mm



*Shown With Fluorescent Gooseneck Illuminators*

### Optional Accessories

- CWF 16x/16mm field of view, CWF 20x/13mm and CWF 30x/9mm Eyepieces
- Auxiliary objectives 0.4x and 2.0x
- Digital & HD cameras
- CCD Adapters — 0.4x and 2.0x
- Photo tube
- Transmitted light stage — 95mm diameter, with 3 watt LED transmitted light source to observe transparent or translucent objects
- 1 watt coaxial LED illuminators
- Daylight, UV, Green or Red LED circular attachable light guides
- Polarizer

| Objective Magnification | Working Distance (mm) | EYEPIECE                       |                              |                              |                               | CCD Adapter 0.4x |
|-------------------------|-----------------------|--------------------------------|------------------------------|------------------------------|-------------------------------|------------------|
|                         |                       | WF 10X/22                      | WF 16X/16                    | WF 20X/13                    | WF 30X/9                      |                  |
| 0.8X                    | 95                    | Total Magnification 8X/27.5    | Total Magnification 12.8X/20 | Total Magnification 16X/16.2 | Total Magnification 24X/11.3  | 0.32X            |
| 1.25X                   |                       | Total Magnification 12.5X/17.6 | Total Magnification 20X/12.8 | Total Magnification 25X/10.4 | Total Magnification 37.5X/7.2 | 0.5X             |
| 2X                      |                       | Total Magnification 20X/11     | Total Magnification 32X/8    | Total Magnification 40X/6.5  | Total Magnification 60X/4.5   | 0.8X             |
| 3.2X                    |                       | Total Magnification 32X/6.9    | Total Magnification 51.2X/5  | Total Magnification 64X/4    | Total Magnification 96X/2.8   | 1.28X            |
| 4.8X                    |                       | Total Magnification 48X/4.6    | Total Magnification 77X/3.3  | Total Magnification 96X/2.7  | Total Magnification 114X/1.9  | 1.9X             |

**ISO 9001**  
Certification  
 Design and production adheres to ISO9001 international quality standard.

**ISO 14001**  
Certification  
 Design and production meets the requirements of international standard ISO 14001 for environmental management.