

C-Shape Co-Axial Binocular Microscope (Binocular)

Description:

The **C-Shape Co-Axial Binocular Microscope** is a high-precision optical instrument designed for **detailed microscopic observation** in laboratory, clinical, or veterinary settings. Its **C-shaped body design** and **binocular head** provide ergonomic comfort and superior image clarity, making it ideal for extended use in diagnostics, education, and research.

Specifications:

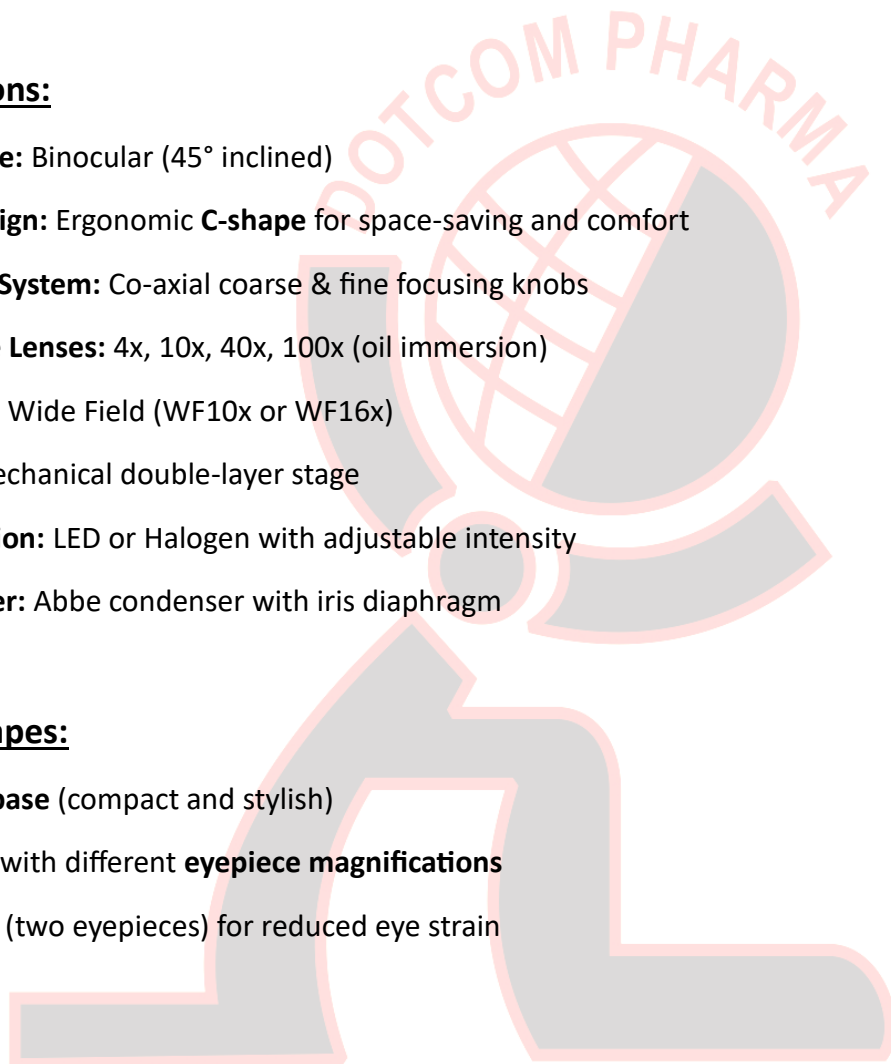
- **Head Type:** Binocular (45° inclined)
- **Body Design:** Ergonomic **C-shape** for space-saving and comfort
- **Focusing System:** Co-axial coarse & fine focusing knobs
- **Objective Lenses:** 4x, 10x, 40x, 100x (oil immersion)
- **Eyepiece:** Wide Field (WF10x or WF16x)
- **Stage:** Mechanical double-layer stage
- **Illumination:** LED or Halogen with adjustable intensity
- **Condenser:** Abbe condenser with iris diaphragm

Sizes & Shapes:

- **C-shape base** (compact and stylish)
- Available with different **eyepiece magnifications**
- Binocular (two eyepieces) for reduced eye strain

Material:

- Heavy-duty **metal frame** with anti-rust coating
- **Glass optical lenses** (achromatic, anti-reflective)
- Rubber grip for adjustment knobs
- Anti-fungal, anti-dust lens coating (in most models)



Category:

- Laboratory Equipment/ Sub-category: Optical Diagnostic Instruments

Product Form:

- Reusable
- Non-disposable equipment
- Comes with dust cover and power adapter

Usage:

- Microscopic analysis of samples (cells, tissues, fluids)
- Educational demonstrations
- Clinical diagnostics in pathology and microbiology
- Veterinary microscopic evaluations

Advantages:

- Dual-eyepiece for comfortable viewing
- Smooth focusing with co-axial knob system
- Precise and stable image clarity
- Modern, ergonomic C-shape saves space and looks professional

Disadvantages:

- Requires proper training for correct usage
- Not portable due to solid base design
- Needs regular cleaning and lens care

Precautions:

- Handle with care to avoid lens damage
- Always use a dust cover when not in use
- Avoid touching lenses with fingers
- Clean using lens-safe solutions only

HS / HSN Code:

- **HS Code:** 9011.80
- **HSN Code:** 9011 (Microscopes & Optical Instruments)

Handling Instructions:

- Use both hands while moving
- Adjust focus slowly using co-axial knobs
- Place slides gently on the stage
- Turn off light when not in use

Sterilization Details:

- **Do not autoclave**
- Use microfiber cloth and lens cleaning solution for optics
- Disinfect stage and knobs with isopropyl alcohol wipes

Veterinary Application:

Used in **veterinary labs** for examining blood smears, parasites, tissue samples, and microbial identification in animals.

Human Application:

Used in **medical labs, hospitals, and schools** for analysing human biological samples and academic training in life sciences.

Frequently Asked Questions (FAQs):

1. **What is the benefit of a binocular microscope?**
It provides comfort during long sessions and allows both eyes to work together, reducing fatigue.
2. **What does co-axial focusing mean?**
It means both coarse and fine focus knobs are combined in one control, making focusing smoother and easier.
3. **What can I observe with this microscope?**
Cells, tissues, parasites, blood samples, bacteria, and other microscopic elements.