



ANALYTICAL INSTRUMENTS / OPTICAL MICROSCOPY

# COMPOUND MICROSCOPE

Clear optics. Precise routine observation.

The ALC-CM-100 Compound Microscope is a binocular optical system for routine specimen examination in education, diagnostics, microbiology, pathology and life-science research laboratories.



VIEWING HEAD

Binocular

OBJECTIVES

4X to 100X

ILLUMINATION

3 W LED

MODEL

ALC-CM-100

CATALOGUE NUMBER

To be confirmed

## REFERENCE SPECIFICATION SET

Values shown are reproduced from supplied ALC-Scientific artwork; final procurement values require approved datasheet confirmation.



## PRODUCT OVERVIEW

# Clear optics. Precise routine observation.

The ALC-CM-100 reference configuration combines a binocular viewing head, achromatic objectives, mechanical stage, Abbe condenser, coaxial focusing and adjustable LED illumination. It supports routine bright-field observation from low to oil-immersion magnification. Objective specification, optical corrections and supplied accessories must be confirmed against the approved model datasheet.



## VIEWING HEAD

Binocular

## OBJECTIVES

4X to 100X

## ILLUMINATION

3 W LED

## Key Features

- Infinity / achromatic optical system
- Binocular 30-degree inclined viewing head
- Quadruple revolving nosepiece
- Coaxial coarse and fine focusing
- Double-layer mechanical specimen stage
- Abbe condenser with iris diaphragm
- Adjustable 3 W LED illumination

## Working Principle

Visible light passes through the prepared specimen and is enlarged by the objective and eyepiece optical systems. Mechanical focusing changes the specimen-to-objective distance to produce a clear image at the selected magnification.

### TYPICAL APPLICATIONS

Clinical and diagnostic observation / Biology and microbiology education / Histology and pathology workflows / Routine specimen examination / Veterinary and agriculture laboratories



## REFERENCE TECHNICAL DATA

# Final values require approved model-datasheet confirmation.

PARAMETER	REFERENCE SPECIFICATION
Model	ALC-CM-100
Type	Binocular compound microscope
Optical system	Infinity / achromatic
Viewing head	Binocular, 30 degrees inclined, 360 degrees rotatable
Eyepieces	Wide-field WF10X (18 mm)
Objectives	4X, 10X, 40X spring, 100X oil spring
Nosepiece	Quadruple
Stage	Double-layer mechanical; 140 x 140 mm
Stage travel	75 x 50 mm
Condenser	Abbe N.A. 1.25 with iris diaphragm and filter holder
Focusing	Coaxial coarse and fine adjustment
Illumination	3 W LED with intensity control
Power supply	220 - 240 V AC, 50/60 Hz
Dimensions	200 x 280 x 420 mm, approx.
Weight	6.5 kg, approx.

## STANDARD SUPPLY

- Microscope main unit
- WF10X eyepieces (pair)
- Achromatic objective set
- Immersion oil, 5 mL
- Dust cover and operation manual

## INSTALLATION

- Stable vibration-free bench
- Earthed AC supply
- Low-dust environment
- Protect optics from solvents
- Follow approved model manual

## TO BE CONFIRMED

- Final optical correction and objective set
- Stage and condenser tolerances
- Camera compatibility
- Warranty period
- Calibration / inspection documentation



## LABORATORY APPLICATIONS

# A clear platform for routine optical observation.

## Applications

- Clinical and diagnostic observation
- Biology and microbiology education
- Histology and pathology workflows
- Routine specimen examination
- Veterinary and agriculture laboratories
- Research and quality-control laboratories

## Product Advantages

- Sharp routine bright-field imaging
- Multiple magnification options
- Comfortable binocular observation
- Precision mechanical focusing
- Compact benchtop footprint
- Optional imaging and phase-contrast upgrades



SCAN FOR PRODUCT PAGE

## Request a model-specific quotation.

Share your application, required capacity or range, preferred configuration, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved technical datasheet and quotation.

### ALC-SCIENTIFIC LABORATORY SYSTEMS

[alcscientific.com](http://alcscientific.com)

+91 89501 26206

[info@alcscientific.com](mailto:info@alcscientific.com)

OEM / PRIVATE LABEL AVAILABLE

Product images are for reference and may vary according to the selected configuration. Specifications, dimensions, accessories and designs are subject to change. Final specifications are those stated in the approved technical datasheet and commercial quotation. Standard warranty: To be confirmed according to the selected product and approved commercial quotation.