NEWTON’S RING MICROSCOPE AL-151A

Code: AL-151A GST: 18% Brand: AVAIN LABS









AVAIN LABS® NEWTON’S RING MICROSCOPE AL-151A

The AVAIN LABS® Newton’s Ring Microscope AL-151A is a compact and complete laboratory instrument designed for conducting the Newton’s Rings experiment in physics laboratories, educational institutions, colleges, universities, and research environments. It provides a convenient arrangement for observing and measuring Newton’s rings with precision and ease.

The instrument includes a standard microscope unit with 30× magnification and a rotatable cross-line eyepiece, allowing clear observation and alignment of the interference rings. Microscope focusing is achieved through a smooth rack-and-pinion mechanism, providing convenient and accurate focusing during experiments.

For precise measurement, the microscope provides 26 mm longitudinal movement, operated by rotating the supplied drum. The measuring drum reads up to 0.001 cm, enabling accurate measurement of the ring diameters required for Newton’s Rings calculations.

The complete setup includes optical glass and a convex lens housed inside a protective metal case. The instrument is supplied in a sturdy wooden box with standard accessories, making it convenient for storage, transportation, and laboratory use.

The AL-151A can also be supplied with Camera Lucida – Miller Type and Camera Lucida – Prism Type, along with Double Demonstration capability for effective classroom teaching and experimental demonstration.

Key Features

- Compact and complete setup for conducting the Newton’s Rings experiment
- Standard microscope with 30× magnification
- Rotatable cross-line eyepiece for convenient observation
- Smooth rack-and-pinion focusing mechanism
- 26 mm longitudinal movement for accurate measurement
- Measuring drum with reading up to 0.001 cm
- Includes optical glass and convex lens
- Lens and optical components housed in a metal case
- Supplied in a sturdy wooden box
- Complete with standard accessories
- Available with Miller Type Camera Lucida
- Available with Prism Type Camera Lucida
- Double Demonstration facility for teaching and laboratory demonstrations

Applications

The AVAIN LABS® Newton’s Ring Microscope AL-151A is ideal for physics laboratory experiments, undergraduate and postgraduate teaching, optics experiments, interference studies, educational demonstrations, and scientific instruction.

It is particularly suitable for demonstrating the principles of Newton’s Rings and optical interference, making it a valuable instrument for schools, colleges, universities, engineering institutes, and physics laboratories.

Technical Specifications

Why Choose AVAIN LABS® AL-151A?

The AVAIN LABS® Newton’s Ring Microscope AL-151A combines a compact design, 30× magnification, precise drum measurement, rack-and-pinion focusing, and complete optical components in one practical laboratory setup. Its sturdy packaging and optional Camera Lucida configurations make it well suited for both individual experiments and classroom demonstrations.

AVAIN LABS® – Laboratory Instruments & Scientific Equipment for Education, Research, Testing and Scientific Demonstration.

Specifications

Model	AL-151A
Product	Newton’s Ring Microscope
Magnification	30×
Eyepiece	Rotatable Cross-Line Eyepiece
Focusing	Rack & Pinion
Longitudinal Movement	26 mm
Drum Reading	0.001 cm
Optical Components	Optical Glass & Convex Lens
Lens Housing	Metal Case
Packing	Sturdy Wooden Box
Accessories	Standard Accessories
Camera Lucida	Miller Type / Prism Type
Demonstration	Double Demonstration

Available models (3)

Cat. No.	Model / Size	Size	HSN
AL-151A-S1	Small	Small	
AL-151A-S2	Large	Large	
AL-151A	Standard		

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