

About the Home Microscope Series

The **Home Microscope** is the best choice for most families and schools; it gives you exceptional quality at a great price. Customers consistently rate it with five stars. This full-size compound microscope is easy to use and provides large, clear images that will meet your needs for high school biology.

"Absolutely stunning resolution. You can see so clearly, it's hard to not be tempted to just spend the day "finding" things to put under the scope. A serious microscope and a seriously great value."

REVIEW



Why Choose the Home Microscope?

Features. The Home microscope comes with all the features you would expect of any good-quality high school microscope, including high-quality glass optics and a durable metal frame. While most high school scopes at a similar price use tungsten lighting, the Home Microscope has cooler, brighter fluorescent lighting.

Quality. Each Home microscope is carefully inspected by our in-house quality control specialist, who checks everything from the optics to the mechanical operation. Nothing that we are not 100% satisfied with will ever be sent to you, so you can be sure of top quality right out of the box.

Lifetime Warranty. Unlike some of the other educational microscopes you might see online, Home Science Tools guarantees that your microscope will be free from defects in material and workmanship under normal use for the life of the instrument – so if you have any problems, we are happy to repair or replace your microscope immediately.

Tour of the Home Microscope

Magnification. Standard magnification of 40x, 100x, and 400x is produced when the 10x eyepiece is multiplied by the magnification of the 4x, 10x, and 40x objective lenses.

Objective Lenses. The all-glass lenses are...

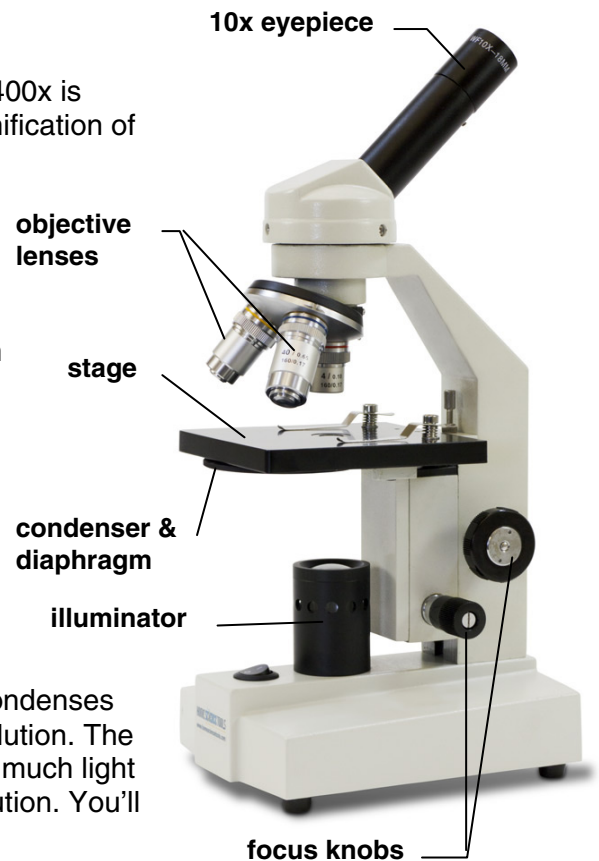
- *Achromatic*, which means they prevent color distortion
- *Parcentered*, which means that when you center your slide on one magnification level, it will stay centered on all the others
- *Parfocal*, which means that once you've focused on an object using one objective, the microscope will still be coarsely focused when you switch to a different objective. You'll have to adjust the fine focus a bit.

Stage. This is the platform that holds the slide up beneath the objective lens. The stage clips hold the slide in place. Pre-drilled for an optional mechanical stage.

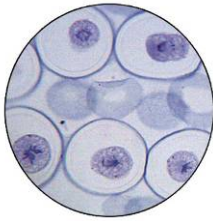
Condenser & Diaphragm. The condenser focuses and condenses the light rays from the illuminator to give better image resolution. The disc diaphragm has several settings to let you control how much light passes through the specimen, which also helps with resolution. You'll need more light at higher magnification than lower.

Illumination. Bright, cool fluorescent lighting is a key feature of the Home microscope. It is more enjoyable to use, produces a bright clear image, and is cool enough for live specimens. Other models in the series feature a long-lasting LED bulb, also cool and bright.

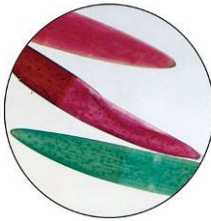
Focus. A coarse focus knob gets your specimen mostly in focus, and then you can make small adjustments with the fine focus knob.



A Sneak Peek at What You'll See — Images observed with the Home microscope:



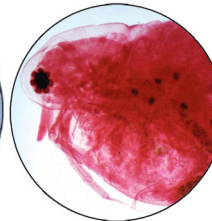
Ascaris Mitosis
400x



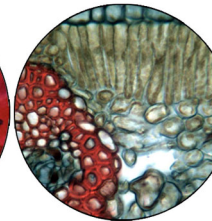
Desmids
100x



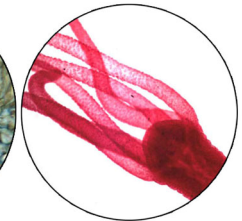
Lily bud
40x



Daphnia
100x



Ficus leaf
100x



Hydra
40x

Other Microscopes in the Home Series



Home LED

The same as our classic scope, but with a cool, bright LED bulb that lasts 10 times longer than a fluorescent bulb. The LED's intensity is adjustable using the dial at the base. It also comes pre-drilled for an optional mechanical stage.



Home 1000x

This deluxe scope has the following upgraded features:

- 100x objective lens for 1000x magnification
- Mechanical stage for precise slide movement
- Adjustable condenser and iris diaphragm.



Home LED 1000x

- Cool, bright, and long-lasting LED bulb
- 100x objective lens for 1000x magnification
- Mechanical stage for precise slide movement
- Adjustable condenser and iris diaphragm.



Home Advanced LED

This scope has a more fully adjustable condenser and diaphragm, so you can have the control to get the very best contrast and image resolution. The iris diaphragm gives infinite degrees of light control. Also features a long-lasting LED bulb and a built-in mechanical stage.



Home Dual-Head

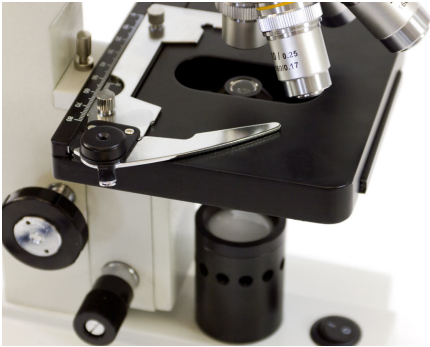
Same features as the Home Advanced LED microscope, but with a vertical eyepiece and an inclined eyepiece. This allows teachers and students to work at the same time, and is also perfect for digital microscope photography.



Home Binocular

Same features as the Home Advanced LED microscope, but with binocular eyepieces for greater comfort. This is a great choice if you will be viewing for extended periods of time. Also includes 100x objective lens for 1000x magnification.

Features of Advanced Models



The basic models in this series are the Home Microscope and the Home LED Microscope. The **advanced models** are the Home Advanced LED, Home Dual-Head, Home 1000x, Home LED 1000x, and Home Binocular.

Mechanical Stage - The Home Microscope and Home LED Microscope are both pre-drilled to attach an optional mechanical stage, a component that allows precise movement of the slide on the stage while maintaining relatively good focus. It is ideal for scanning specimens.

All other models in this series have a built-in mechanical stage that can be adjusted vertically and horizontally for precision movement of the specimen slide. To adjust the slide, rotate the top and bottom of the coaxial knob. The front/back adjustment knob is at the top. The right/left adjustment knob is at the bottom, towards the base of the microscope. Each of the built-in mechanical stages features a single slide clip that is easily controlled by a lever (see picture above).

1.25 Abbe Condenser - Unlike the fixed condenser on the basic models, this condenser is movable. Rotate it using the upper lever under the stage. Moving it clockwise will lower it; counter-clockwise will raise it.

Iris Diaphragm - The iris diaphragm replaces the disc diaphragm that is on the basic models. It provides greater control of the amount of light coming through the specimen and optics, thus giving you more precise resolution and contrast for each specimen. The diaphragm adjusts very easily with a sliding control lever instead of a rotating disk. This lever is the lower lever under the stage.