

Title:

Microscope Q&A: Understanding The Types Of Microscopes

Word Count:

595

Summary:

* What are Compound Microscopes?

A Compound Microscope is a microscope that consists essentially of two or more double convex lenses.

The upper lens is the eyepiece and the lower lens is the objective. The cylinder is mounted on a base.

When an object is in focus, a real inverted image is formed by the objective lens.

Keywords:

microscope, compound microscope, stereo microscope, microscopy, magnification, confocal, confocal scanning laser microscope

Article Body:

* What are Compound Microscopes?

A Compound Microscope is a microscope that consists essentially of two or more double convex lenses.

The upper lens is the eyepiece and the lower lens is the objective. The cylinder is mounted on a base.

When an object is in focus, a real inverted image is formed by the lower lens at a point inside the microscope.

* What are Stereo Microscopes?

A Stereo Microscope is a lower powered microscope instrument that features a large stage for observing specimens.

With stereo microscopes, tiny things became large, in layman's terms, the flaws in gemstones and the structure of minerals.

* What are Electron Microscopes?

Electron Microscopes are those microscopes that use electrons rather than visible light to produce images.

This was invented by a German physicist Ernst Ruska. After Ruska introduced his invention to the world, it revolutionized the field of microscopy.

* What are Digital Microscopes?

The Digital Microscope is the newest innovation of microscopy that uses a digital camera in its design.

It makes use of an inverted lens design so specimens of variable sizes and shapes can be viewed and recorded.

* What are Video Microscopes?

A Video Microscope is like a digital microscope. It is being powered through the use of video cameras.

The video cameras used in video microscopes offer high resolutions coupled with high sensitivity.

* What are Scanning Tunnelling Microscopes?

Scanning Tunnelling Microscopes are instruments used in scanning probe microscopy. It can view
Using its tip, it can alter the material being investigated by manipulating its atoms. This ti
The scanning tunnelling microscope allows a scientist to visualize areas of high electron dens

* What is Confocal Microscopy?

Confocal Microscopy is a great tool used to get high-resolution images and restructured to cre
A computer is used in this process allowing for a faster and easier image production. The use

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