

Introducing a new concept in zoom microscopy.

The AZ100 Multizoom is a multi-purpose zoom microscope system that provides capabilities that don't currently exist with stereomicroscopes and compound high magnification microscopes. It covers an extremely wide range of magnifications, from 5x to 400x, effectively combining the advantages provided by stereo zoom microscopes and compound microscopes. Thanks to a smooth zooming mechanism and a unique triple nosepiece, the AZ100 can continuously switch magnifications, extending from macro to micro observation of the same specimen.

Key Features

Wide Range of Magnifications

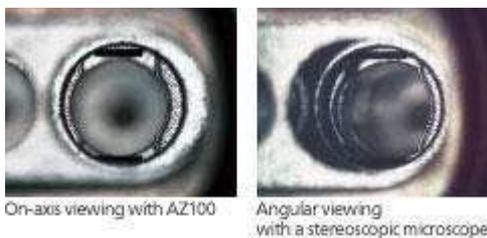


Zoom click mechanism on knob

By combining built-in 8x zoom optics, which provide from 1x to 8x magnification, with a three-position objective nosepiece, the AZ100 enables observation at the highest magnification ratio of any such device in the world.

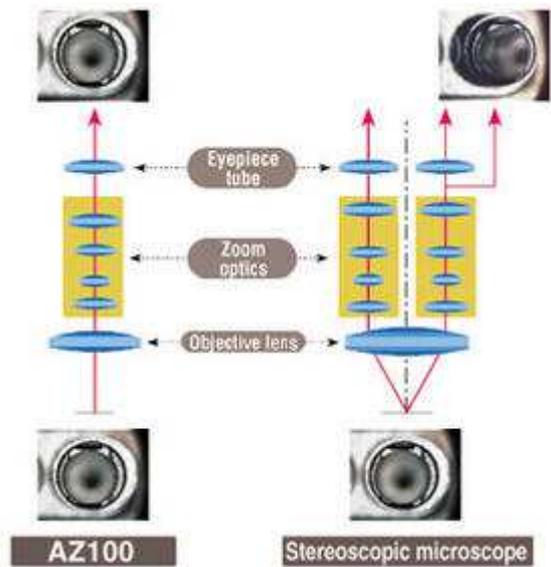
The objective lens lineup consists of 0.5x, 1x, 2x, 4x, and 5x lenses. When combined with AZ-W 10x eyepiece lenses, the AZ100 covers everything from low, though medium to high magnification. The zoom knob incorporates a click-stop mechanism for measuring and reproducing magnification settings.

Macro Observation by On-axis Viewing



True on-axis observation and image capture are possible in the macro region due to the AZ100's elimination of the traditional stereoscope's angular view of the specimen.

Mono Zoom Mechanism



Stereoscopic microscopes always capture images in a diagonal direction due to the structure of the device. The AZ100, however, captures high-resolution, high-contrast images with on-axis viewing.

Dedicated Stages



The product lineup consists of a reflected-only and a dual-purpose reflected/transmitted illumination stage. The three-plate structure of the stage enables stable operation even for observation at high magnification. They provide superior durability even when supporting heavy industrial samples.

Convenient Aperture Stop



The AZ100 ships complete with an aperture stop that is effective not only for visual observation, but also for the capture of digital images. This aperture stop allows you to freely change contrast and field depth based on your specimen requirements.

Double-coarse/Fine Focusing System



Focusing can be done using either the AZ stand or stage controls. Since the stand section offers an 85mm stroke and the stage section a 10mm stroke, even tall samples can easily be observed. Focusing the stage can be performed easily with up-front table-level controls, without having to put your hands above the sample.

Tilting Eyepiece Tubes



The AZ100 comes standard with eyepiece tubes that tilt from 0° to 30°. This feature enables the optimal eye level for the observer's height and posture as well as the sample height. Two different beam-split ratios for the binocular and photo port can be selected: 100:0/0:100, which is suitable for photo documentation; or 100:0/20:80, which enables visual observation while displaying an image on a monitor.

Stands

Nikon has developed two extremely stable dedicated stands: a reflected-only and a dual-purpose reflected/transmitted illumination stand. Even during observation at high magnifications, these stands enable stable, blur-free observation.