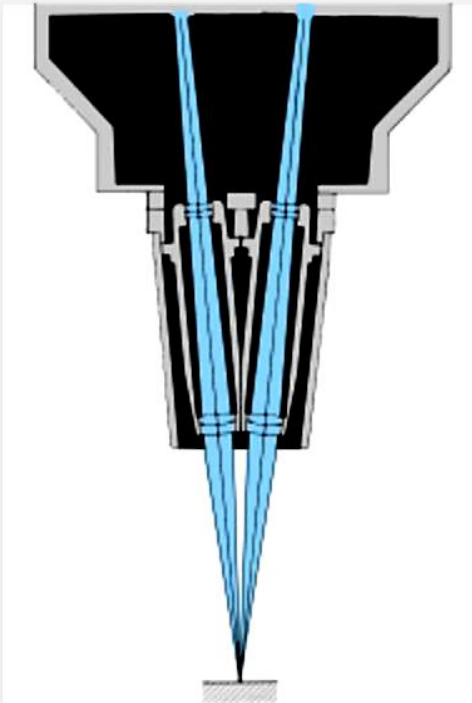


Stereo Microscopy

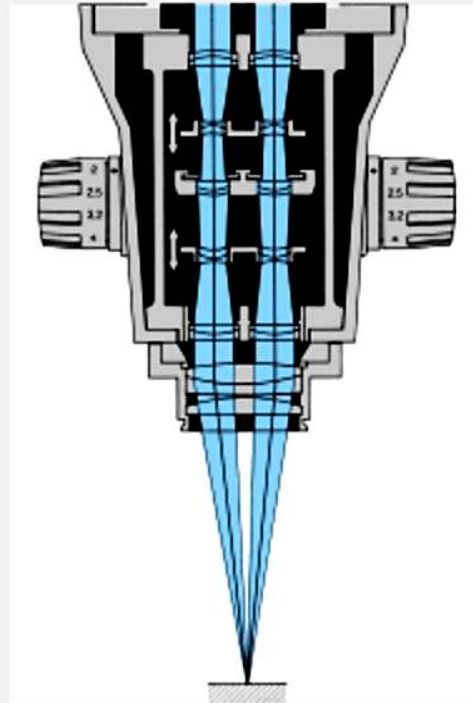
In CMOs, Fig. 6, a single large objective lens is used, and the image from this single lens is divided into two image paths to provide stereoscopic views.

Modern stereomicroscopes are built according to either of two design concepts:



The Greenough design

Two identical objectives, arranged with their optical axes including the stereo angle, generate two separate images. Observed through separate eyepieces, they combine to form a 3D image.



The Telescope design

Two microscope systems arranged in parallel share a common objective. The stereo angle is formed by the extra-axial pairs of rays.

Figure 6. From the Zeiss brochure: *Microscopy from Carl Zeiss. Stemi DR, Stemi DV4, Stemi 2000 Stereomicroscopes*, Courtesy, and with permission of Carl Zeiss Microscopy, LLC. A comparison of Greenough and CMO (Telescope) design microscopes (Kreindler, September 2012)