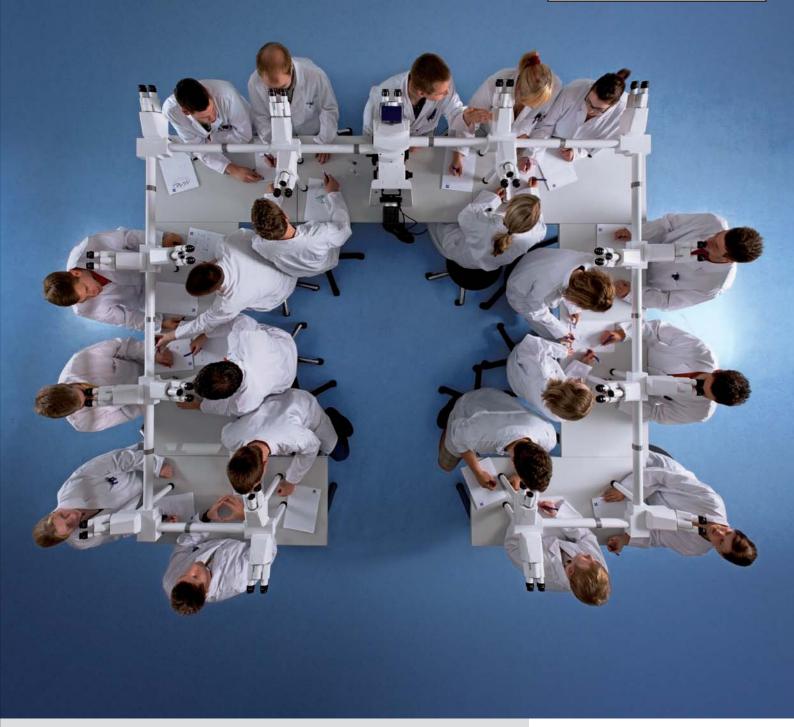
Multidiscussion Systems





Better Orientation Greater Flexibility More Stability



A Great View from Every Position

Better orientation

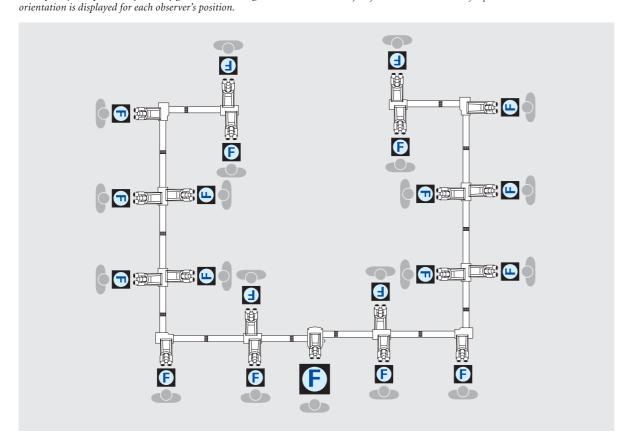
With the new multidiscussion system from Carl Zeiss, it is possible for the first time to achieve identical image orientations for all co-observers. Regardless of the configuration and number of observers, each co-observer sees the same image in the same orientation as the main observer. It does not matter whether 2 or 20 observers are working on the system, or whether it is configured in a straight line or around 5 corners. Irritations caused by rotated or mirrored images are therefore ruled out right from the start – top left is always top left for each and every observer.

The sensitive movable light pointer enables the main observer to precisely highlight or outline interesting structures or striking histological changes in the specimen. To ensure optimal visibility of the pointer when reviewing specimens with different stains, the pointer's intensity and color (white green, red) can be adjusted.



The image orientation is identical for all observers and is completely independent of the configuration. The image

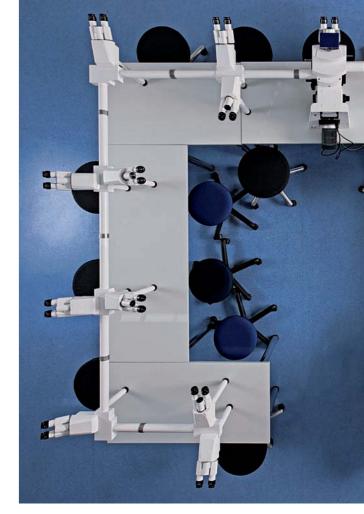
The light pointer: sensitive operation with stepless intensity adjustment and a choice of 3 pointer colors.



Greater flexibility

Choosing from the 4 basic components it is possible to set up virtually any configuration – tailored precisely to the required number of co-observers and the available space. Even in the case of large systems there is no need to order expensive customized tables. All configurations can be realized with a combination of simple, standard tables. The recommended table width is between 50 and 70 cm.

Should additional workstations be required, the system can easily be expanded at any time. Existing multidiscussion systems for the Axioskop 40 or Axioskop 2 are also compatible with the new modules.



All configurations can be realized using conventional office tables.



Four basic components – countless combination options: right deflection, left deflection, extension element, end element.

Space-saving and Individual

More space

A multidiscussion system should be as compact as possible in terms of its configuration, but it should also offer sufficient space for all co-observers and their documents.

The linear configurations offer each individual co-observer plenty of space, allowing them to work most comfortably. There is a little less room with the non-linear configurations. For space-efficient working, however, you always have the option of rotating each tube as required, although in this case you should bear in mind that the image is also rotated accordingly.

Example of a non-linear configuration

This configuration is extremely compact, requiring an area of no more than around 2 x 2 meters. The Main observer and 10 co-observer stations on the Axio Scope.A1 with LED transmitted light illumination.



More choice

With Axio Scope and Axio Imager you have a choice of two high-performance stands that are available in a wide range of variants. You can therefore put together the optimum instrument to meet every requirement — even under budgetary constraints. Transmitted light illumination can be realized either as a halogen or an LED variant. A particular advantage of the white-light LEDs is that the color rendition of the specimen remains completely stable as intensity is adjusted. For typical brightfield applications the LED illumination offers sufficient brightness even with 12 or 14 co-observers.

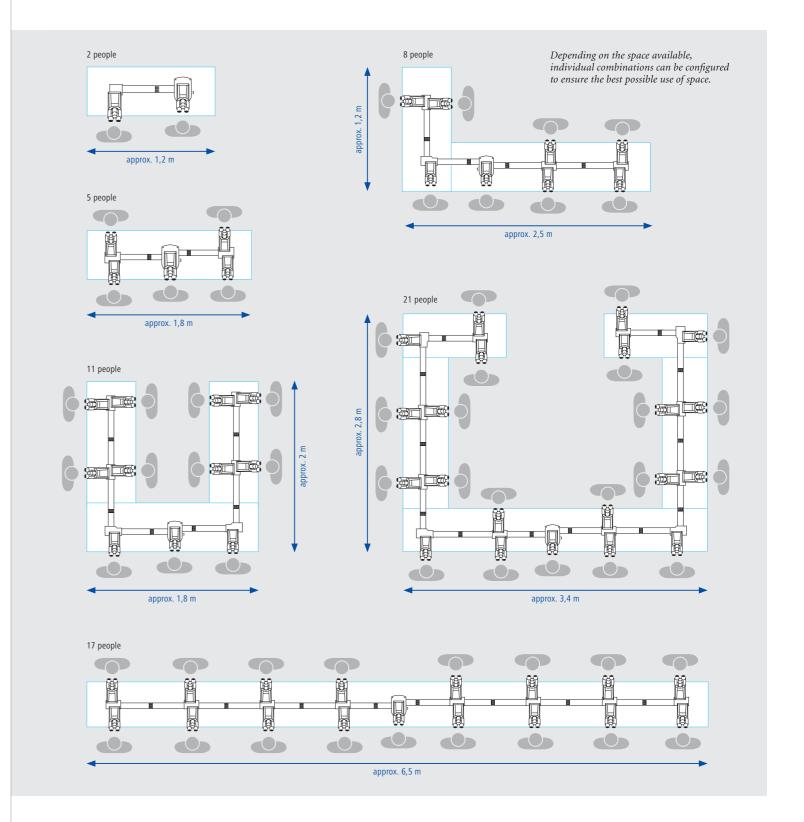
In the case of larger configurations or contrast techniques requiring greater light intensity, such as phase contrast or differential interference contrast (DIC), 100 W halogen illumination is recommended. For typical brightfield applications the sophisticated optics even allow configurations with 24 or more co-observers. With the Axio Scope the particularly compact 50 W halogen reflector lamp is also available. This allows brightfield applications to be performed easily with up to 16 or 18 observers.

Example of a linear configuration

A particularly effective use of space. Main observer and 16 co-observer stations on the Axio Scope.A1 with 50 W halogen lamp.



Configuration Examples



Better in Every Respect

More stability

Due to the considerable forces exerted on them, traditional multidiscussion systems can easily tip or twist. This not only puts pressure on the mechanics, but also impairs the performance of the optical system.

With the new multidiscussion system from Carl Zeiss each tube has its own support, optimally positioned at its center of gravity. This makes the system incredibly stable. The height of each support can be adjusted separately and, thanks to the ball-and-socket joint, any slight unevenness of the table or floor is automatically compensated for.

Better overview

A full, 23 mm field of view with homogeneous illumination is available not only to the main observer, but to all co-observers as well. This means that all participants enjoy a better overview of a larger area of the specimen.

Stable conditions: each tube has its own column, ensuring optimum support at its center of gravity.



Particularly practical for a quick overview – the specimen holder plate. Alternatively, the specimen can be moved by hand or by using the precise XY stage drive.



Also ideal for fluorescence applications: the light-intensive variant for a main observer and one co-observer. The image shows the observers on the Axio Scope.A1 with 50 W HBO for fluorescence excitation and 100 W halogen lamp for transmitted light illumination. Ergotubes for the main and co-observer ensure particularly comfortable working conditions.

Greater intensity

As an additional light-intensive variant, the multidiscussion system is also available with just one extra co-observer station. Here the available light is split equally between the main observer and co-observer, ensuring that even weak fluorescence signals can be shown with sufficient intensity.

More comfort

To enable complete concentration on the sample, Carl Zeiss microscopes are not only equipped with outstanding optics and solid mechanics, but are also extremely user-friendly. Numerous details play a role here. You may barely notice these at first sight, but their importance will become clear in your day-to-day work: the convenient arrangement of the control elements, the sensitive and precise operation, the options for adapting the microscope to various users, etc. In this area both the Axio Scope and Axio Imager set

the standard. Even the basic version of the Axio Imager is equipped with a light manager that renders many manual operations unnecessary. The desired brightness can be stored for each objective, for example, and restored automatically when the objective is used again. The motorized versions Axio Imager.M2 and Axio Imager.Z2 even offer complete, automatic setting of intensity, contrast techniques, diaphragm settings, neutral filter switching, etc.

Axio Scope and Axio Imager: the research microscopes from Carl Zeiss satisfy the very highest standards in terms of performance and operating comfort.



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System Overview

