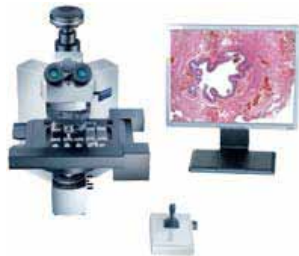# VS110 - Virtual Slide System   Digital virtual microscope

- Archiving rare and valuable biological sections
- Sharing specimen via the web for discussion, presentation or teleconferencing
- Building online databases for students education
- Setting up application-oriented reference databases

VS110 - Digital virtual microscopy system

The VS110 system brings microscopy and imaging closer together. The result is an advanced and extremely versatile 'virtual' slide, which is a high-resolution image of the whole specimen. This can be viewed from the overview image at low magnification up to maximum magnification via seamless zoom. Another addition to this premium-level system is the possibility of acquiring the entire specimen in different focal planes, so that one can focus through the sample virtually at a later time to obtain depth information on the sample. Stored electronically on a central server, samples can be viewed around the world instantly and simultaneously - the future of imaging is here

Full slide scanning in three mouse clicks
With the VS110 users will be guided through the entire virtual slide acquisition process step-by-step by an intuitive Scan wizard. Full slide scanning can be set up with just 3 mouse clicks. Although, several modes are pre-defined, the advanced software allows experienced users to be in full control of the details of the scanning process. Therefore, different scan settings can be assigned to individual slides, saving significant scanning time, as well as offering the possibility to only scan areas of interest, reducing the data file size.

Real virtual microscopy
The VS110 system is capable of scanning even large specimens in multiple z-planes. By selecting the Virtual Z scan mode, the reviewer can just simply focus through the sample, as well as examing regions of interest in different dimensions. This enables better observation for re-mote consults, as well as consistent training for students and pathologists.

Multi-function
The VS110 system is based on an upright motorised Olympus microscope, which enables a range of modules to be easily added to meet the desired specification. In standard configuration the slides can be scanned at true 20x/0.75 N.A. and 40x/0.95 N.A. with automated tissue detection and multiple regions of interest scanning possible. An option for 60x/1.35 N.A. and 100x/1.40 N.A. oil is available to scan e.g. blood smears and cytology samples in highest resolution.

Fast data access
The integrated, versatile Net Image Server SQL expands the VS110 scanner family family with a client server database and allows users to manage any kind of image in a simple and convenient way. This powerful tool enables scanned images to be automatically uploaded to the database and with the right permission set making them readily available for immediate remote access and multiple keyword queries. A database template for clinical applications, customised database fields, user defined database structure offer greater flexibility, and Net Image Server SQL also supports multiple file repository systems to allow secure, easy networking between different scanning units within one database.