

Analogue generated images are more problematic with lap tops as they do not have spare bays for a PCI card. However most lap tops have a card bay that will accept a PCMCIA card that will allow frame grabbing from an analogue CCTV camera.

Computer image from digital cameras:

CCTV cameras that produce a digital image have been very expensive until recently . However USB 2.0 technology has allowed the introduction of cameras that are more realistically priced. They are particularly effective for lap top computers and give good resolution video clips and grabbed still images. Computer images are defined by pixels, with the concentration of pixels defining the resolution and the number of pixels the maximum image size. 2 and 3M cameras that are ideal for photomicrography are now being developed (see price list). The USB 2.0, 1.3 million pixel minicam is an excellent value for money miniature camera giving an image of 1200 x 1080. This is also available in economy version as a 350K unit with 640 x 480 resolution.



Digital Camcorders:

Many of the light weight digital camcorders can be connected to the eyetubes of microscopes via our Unlink adapter in the same way as digital still image cameras. Most have lens screw threads - often 37mm diameter that will attach directly to the Unlink. Other diameter can be attached with an appropriate step ring. It is usually necessary to zoom into the image a little in order to fill the field of view.

Monitors:

We are able to supply medium and high resolution TV monitors, together with flat screen monitors that can function as both TV screens and PC monitors. Our price list has current recommendations

Computer Software:

Brunel Microscopes are pleased to recommend and supply software programs specifically developed to support microscopy

- **Helicon Focus** - depth of focus is a problem associated with all types of photomicrography, and is an issue for both high power compound and low power stereomicroscopes. With Helicon Focus it is no longer necessary to select a plane of focus from a specimen with depth. A series of digital images can be taken at slightly differing depths of the specimen and Helicon Focus will automatically consolidate these multiple images into one image that shows the entire depth of the specimen in focus. Available in two versions Focus Lite and Focus Pro. Mac version available shortly - see price list.

Helicon Focus Lite	HF01
Helicon Focus Pro	HF02
Aquitas Lite	AL01
Scopephoto	SC02

- **Aquitas Lite** - a good reliable measuring software designed for microscopy. A broad range of features including automatic measurement of distances, areas, circumferences and angles. PC only.

- **Scopephoto** - An image manipulation software that also has a range of measurement options. Included as software for the USB2.0 Minicam camera.

2M USB 2.0 digital camera	BC01	350K USB 1.0 minicam	BC03
1.3M USB 2.0 minicam digital camera	BC02	350K USB 2.0 minicam	BC04

Microtomes

The classic microtome design, based on the original Cambridge Rocking microtome. This is an ideal instrument for cutting wax embedded sections of animal and plant material down to 7µ. The microtome is controlled by a lever against a mainspring, that moves the arm of the unit up or down the lead screw.

Brunel Rocking Microtome



- Automatic knife angle setting. Complete with pre-sharpened tempered steel knife.
- Calibrated in 2 micron divisions, the section thickness can be set easily and quickly by a single control. Supplied with specimen chucks.
- Successful microtomy is about rhythm and the rocker is an ideal instrument for the production pf ribbons of sections.
- For those who would not wish to engage in knife sharpening, there is the option of a disposable knife holder that can be fitted with a standard safety razor blade.

Leather strop for knife polishing	SC01	Disposable knife holder	SC04
Honing stone for knife sharpening	SC02	Spare specimen chuck	SC05
Spare microtome knife	SC03	Wax embedding kit	SC06