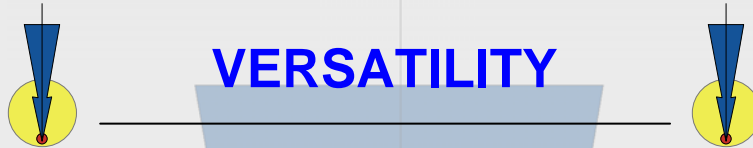


ADVANTAGES

- Easy to use CM software that fully integrates image capture and motion control
- No tedious calibration and training needed – start sampling within 15 minutes
- Sampling path interpolation to allow precise positioning
- 15 μm sampling resolution of carbonates and phosphates
- 2 inch (5 cm) travel distance in X,Y, and Z directions
- Precision, servo motor actuators and crossed-roller bearing stages
- Manual joystick control and fully automated sampling
- Multi-purpose, high quality equipment designed for versatility
- Transmitted and reflected light microscopy (crossed polarized light, darkfield illumination)
- Epi-fluorescence option allows direct sampling in fluorescent light
- 12 Mega Pixel Digital Camera permits live viewing of sampling without video capture
- Research quality stereoscopic zoom microscope with industry best 15:1 zoom ratio
- Heavy duty microscope boomstand
- Straight and contra-angle precision handpieces (with digital control unit)
- Adjustable 360 degree rotation stage with 50 mm opening for transmitted light
- Unique CM Ultralok[®] clamping device to accommodate all sizes of microscope slides without breakage
- Various types of fiber optic illumination
- **NEW! Whole stalagmite sampling option**



Assembled CM-2



The versatility of the CM-2 blows the competition away!

- **Multi-use system**
 - High-resolution automated microsampling mode
 - Easily converted to two manual microsampling modes
 - Macro- and micro-fossil examination
 - Complete Microscopy system
- **Research grade microscope and digital camera**
 - Epi-fluorescence microscopy
 - Transmitted light microscopy with polarizers
 - Reflected light microscopy
- **Two precision handpieces for drilling flexibility**
 - Unique CM Ultraclamp[®] system – indexing handpiece positioning device.
- **Unique CM Ultralok[®] clamping device accommodates all sizes of microscope slides. Samples positioned in seconds.**
- **Unique CM Ultrastage[®] design accommodates a wide range of sample thicknesses.**
- **Whole stalagmite option accommodates sampling of whole stalagmite slabs or coral cores (up to 1 m long) without cutting.**



APPLICATIONS

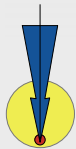
The high-resolution sampling and microscopy capabilities make the CM-2 a powerful tool in the examination and collection of powdered micro-samples for chemical (Sr/Ca, Mg/Ca) and isotopic analyses ($\delta^{18}\text{O}$, $\delta^{13}\text{C}$, $^{87}\text{Sr}/^{86}\text{Sr}$). These analyses are used to construct high-resolution time series from a variety of geological, biological, and archaeological materials including:

- Fish Otoliths
- Mollusk Shells
- Teeth and Bone
- Stalagmites
- Accretionary Crystal Growth

The purpose of these analyses is to understand modern and ancient ambient fluid compositions, climates, and environments.

SPECIFICATIONS

- Carpenter Microsystems software designed for Windows XP[®]
- 5 cm travel in X,Y,Z directions
- 15 μm sampling resolution for most samples
- On-screen digitization and sample path selection
- Sample path interpolation
- Save, recall, and export images in a variety of file formats
- Multi-function device with state-of-the-art microscopy capabilities



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