

# MCD 20

## High resolution and high count rate detector system for electron and ion spectroscopy



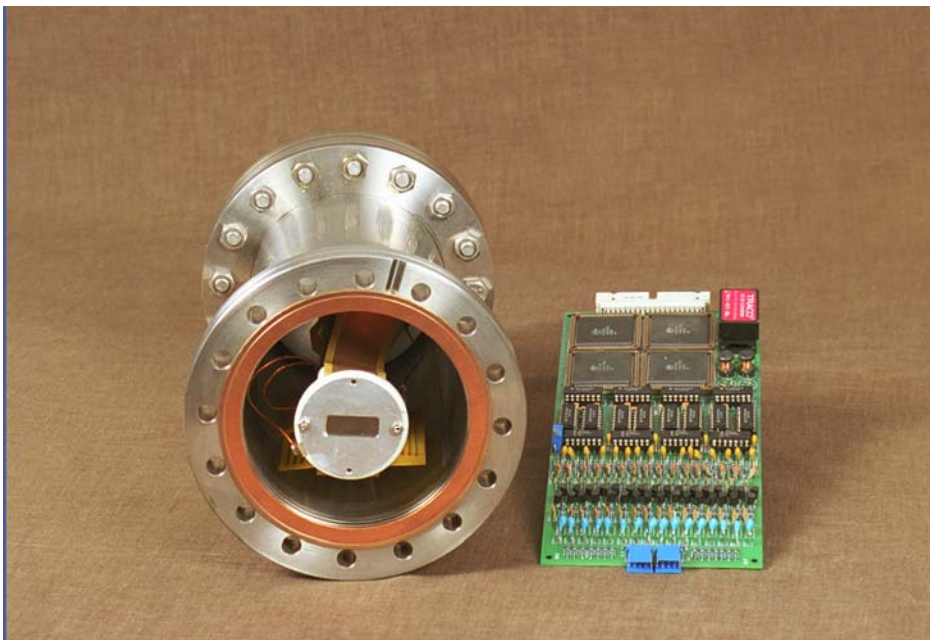
vsmanalysis

MCD 20 brings a **real improvement** to particle spectrometer count rate and resolution.

Its **innovative** mechanical design makes it adaptable to any analyzer geometry to bring the **optimum** performance.

Its **imaginative patented data read-out concept** based on the latest device technology

- extends number of channels
- makes the detector compact,
- flexible and compatible to many data system standards for expansion in future



### Detector System MCD 20

MCD 20 is the result of several years of development collaboration between Space Research and Synchrotron Research facilities and VSL

A large number of channels available at this detector ensures that the energy resolution is never compromised by the width of the detector channels. This ensures a greater flexibility of operation as different techniques of analysis require frequent adjustment of analyzer input slit width now the only determinant of the energy resolution.

The output area does not mechanically change and is fully utilized by the whole detector for spectrum acquisition.

The present detector technology makes it possible to design channels of any shapes and sizes and expand number of channels further to utilize area behind the analyzer fully for data acquisition by different new techniques.

The latest CMOS & amplifier **device technology** ensures a greater detector flexibility so that a number different analyzer types can use this detector design. VS also markets it as a stand-alone component.

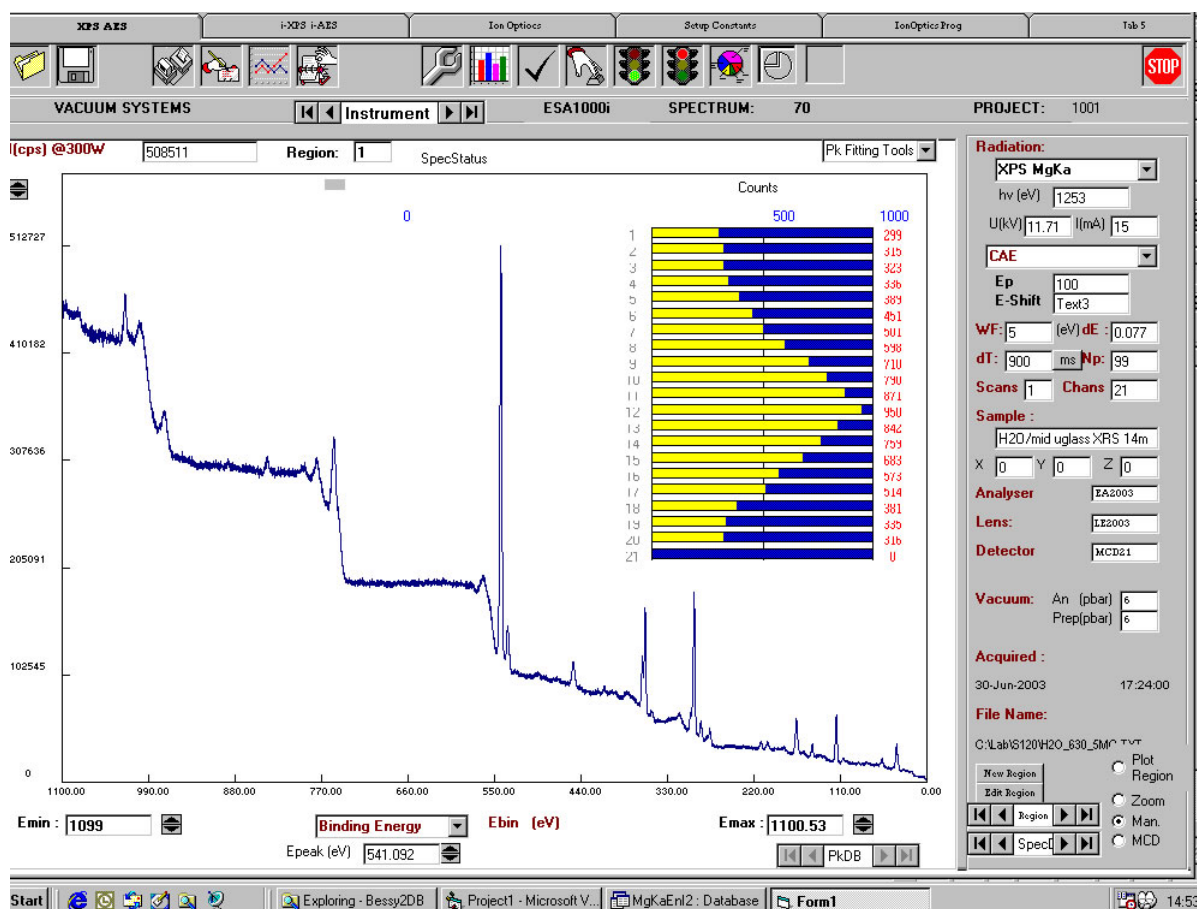
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An XPS spectrum of water contaminants on glass . Spectrum acquisition sheet with real time snapshot of detector channel outputs as O1s peak is passing through the detector Number of MCD channels is 20, Instrument used is ESA1000i