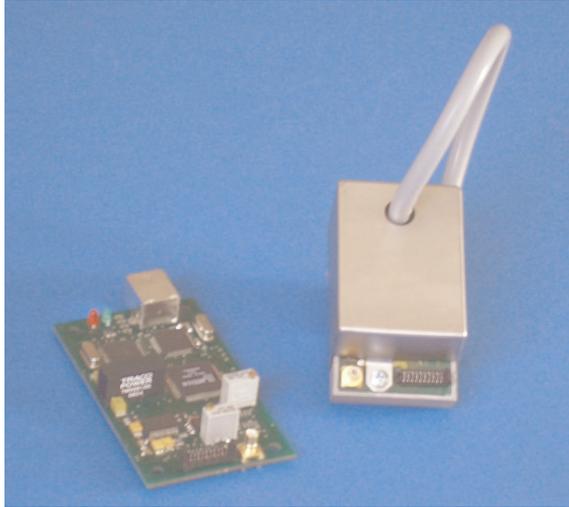


# USB2 - OEM - MMS

Compatible  
USB 2.0 readout  
for Zeiss MMS  
Spectrometer



## Key Features:

- USB 2.0 Readout for the ZEISS MMS Spectrometer.
- 256 Pixel.
- 12 bit ADC
- No external power required.
- Drivers for W98 / 2K / XP / Labview.

## Overview:

The USB2 - OEM - MMS is an easy to use, complete readout for ZEISS - MMS spectrometer. Additional components are not required.

## Hardware:

The USB2 - OEM - MMS readout includes the complete timing with signal conditioning (CDS), a precision 12 Bit ADC and an USB 2.0 interface.

The system is powered by the USB-bus. Additional power-supplies are not required. The USB2 - OEM - MMS provides optional start of scan output and an input for external trigger.

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## Software

The USB2-OEM-MMS readout is shipped with a software for Windows 98, Windows 2000 and Windows XP.

The software includes a DLL to provide an interface to other software and an user software. Drivers for Labview are available upon request.

The user software includes various modes to edit the x/y scales and units, a run mode to observe the sensors's signal, signal processing functions like averaging, binning and x/y zoom and a function to subtract a reference from the actual scan. To get a zero baseline at once, the reference can be loaded from the actual scan. This function works with floating point accuracy.

The two averaging modes provide functions for further reducing the signal to noise ratio.

The integer accumulation mode performs a fast accumulation of several scans.

The averaging mode calculates the running mean of consecutive displayed scans.

To provide a stable display of non-repetitive signals a software trigger was included. Only these scans are displayed (and averaged) which pixels exceeding a selectable threshold .

The view modus provides functions to read and print stored files from disk. The file format for stored data is ASCII, to facilitate the data transfer to other programs like Excel.