32-and 64-bit DLL and VIs for LabVIEW, Visual Basic and Delphi for MPA4

Here is the demo LabVIEW application for the access to dualparameter data

Features

• MS-Windows based customer-specific user interfaces can be easily made using supplied documentation, libraries and examples
• Example programs in Visual Basic, VB2008, C, Delphi and Matlab
• Example LabVIEW application and library containing basic LabVIEW VI’s
• Automatic execution through MACRO commands
• Custom DLL functions allow user-defined calculated parameter spectra
• A special DLL including source shows calculated spectra with routing bits in MPANT
• Local Area TCP/IP Network support for remote control via optional MPA4 Control software

Description

The 32- and 64-bit MPANT software for the multi-parameter system MPA4 consists of a hardware-dependent program with DLL and a general graphics program that controls the hardware via the DLL. Any other Windows application can also control the server hardware via the DLL. To support the programming of such customer-specific user interfaces, as an option we deliver documentation such as sourcecode and example programs for Visual Basic, C, Delphi and LabVIEW.

The software includes the complete sourcecode of the DMPA4.DLL that controls the hardware via the server program. A custom module allows own calculated parameter spectra, as an example for a 2D position dependent detector a position-dependent energy spectra correction is implemented via a lookup table. A special new FMPA3.DLL including source code with examples like F*(x-x’)/(x+x’) where x’ is marked by a routing bit allows to display calculated spectra including calculated error bars in the MPANT program.
For LabVIEW a demo program and a library containing some basic VI's are delivered.

The Visual Basic Demo program

Here are some VI's contained in the VI library MPA4.LLB:

Diagram of the LabVIEW Demo program

The following MPA4 additional software products are presently available:

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<td>Replay program for off-line reconstruction of spectra from listmode</td>
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