

Data Sheet 5.61-1/2

Main Software Package for HiRES, Type HiRES IAS Basic

Application

The Software Package HiRES IAS Basic is used for measurements with our HiRES measuring system. It enables both, the very easy use (without long study of any instruction manual) and the reliable operation of the recorder. The software package is based on the operating system MS Windows® in the latest version. The HiRES IAS software has a modular structure, which enables the separate selection of each module depending on customer applications. The IAS software runs on the industrial PC of the HiRES measuring system. The software guarantees a very user-friendly and reliable operation.

Parameter settings

Whereas the left hand side of the display shows the measurements, the measurement parameters are set on the right hand side similar to an oscilloscope such as measuring range, offset and trigger (see Fig. 1). The software controls the associated internal functions.

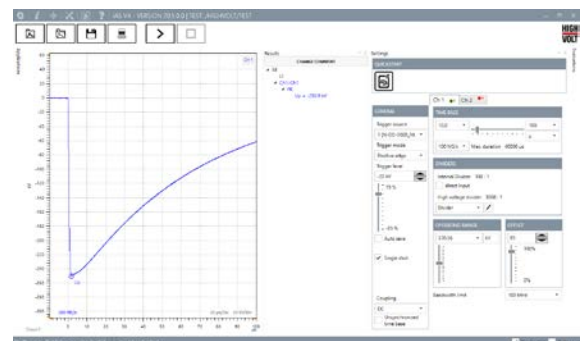


Figure 1: User interface

Quick start and parameter display

In case identical test routines are applied, short cuts and quick start functions on the upper side of the display allow a very fast impulse measuring routine. Evaluated parameters are shown on the right hand side of the display.

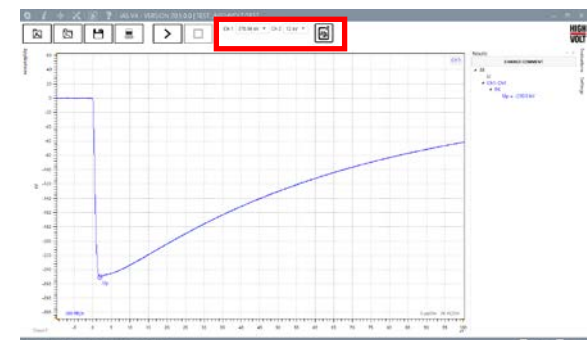


Figure 2: User interface with quick start menu

Recording and handling recorded curves

Recorded curves (one per channel) of different sampling rates and deflections can be displayed or printed in one coordinate system without discontinuities. Even raw data of different recorders can be handled and evaluated by:

- Measurement by different cursors
- Zooming of horizontal or vertical deflection ranges, windows or simultaneous zooming (Fig. 3)
- Free configuration of position and dimensions of coordinate system
- Copying or deletion of recorded curves

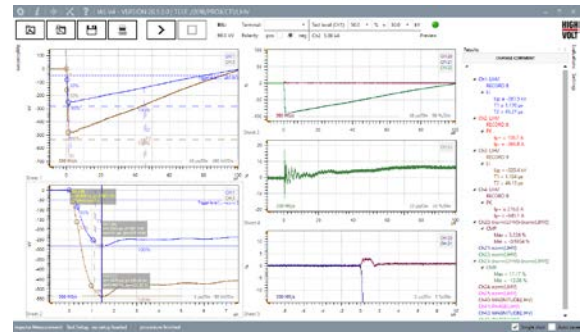


Figure 3: Multiple coordinate systems and zooming

Data storage

All recordings including evaluation results can be saved in an integrated database. The data is organized in projects and tests. The tests contain the recordings, a project corresponds to a folder in which further projects and tests can be located.

Export and import functions

The export functions can be used to write EXCEL® and ASCII-compatible file formats. With the iCOS database (see data sheet 12.40) it is possible to export the data to any customer database.

Files in various CSV-like formats can be imported.

Test report generation

A WORD report generator enables the automatic creation of test reports. By using a template, a header and footer as well as general information can be specified.

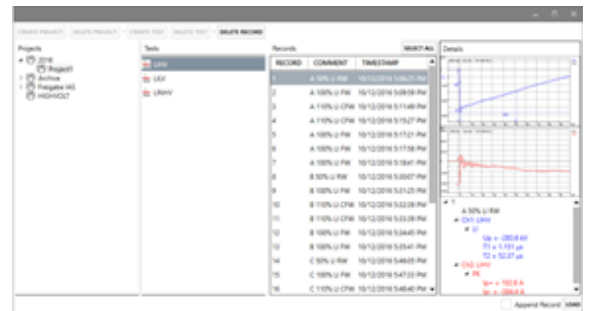


Figure 4: Load record dialog



Figure 5: Example for a generated report

Optional software packages

Whereas the main software HiRES IAS is necessary for all recorders, the optional packages include special impulse test routines.

The optional iCOS Data Base (Data Sheet 12.40) is able to handle a practically unlimited amount of recorded and evaluated data, ready for further evaluation. The Data Base is characterized by standardized (SQL) interfaces, easy handling, guaranteed data integrity and automatic backup.

On special request HIGHVOLT is ready to supply also tailor-made software packages.