

# New software features of Hall

In the following only the main new features of the new software version in comparison to the previous version will be listed. A number in brackets denotes the chapter in the Software Manual. Only bugfix versions will not be taken into account.

## Version 4.1, 2014-08-15

### A) Measurement:

- Small improvements

### B) Data, plot, evaluation:

- Improved delete data function (2.6.3, 3.4.2.3)
- New navigating key (5.1.7.1)
- Template for new text in presentation plot (5.2.7.1)
- Changing all symbols of a layer (5.2.3.1)
- Relative symbol scale in presentation plot (5.2.3.4)
- Create 3. plot layer by array difference of layer 1 and 2 (5.2.2)
- Mapping plots with manual y-range for colors
- Default material parameters for InGaAs, AlInN, InGaZnO, CdTe

### C) Documentation:

- New and enhanced chapters of Software Manual, see brackets
- List/Edit data programs (5.4)
- New structure of Installation Manual

### D) Others:

- All known bugs are fixed
- Easier personalization (1.2.4, 2.3.4)
- Scalable buttons of toolbar (2.3.1)
- Prepared for high resolution screens (2.3.1)
- Overwrite files with keeping data (2.2)
- Updating without administrator rights (I5.1)
- Install, Set\_Conf, Set\_Reg programs improved
- Easier installation of portable lite program (I5.3, I1.2)
- Starting Hall tools by a desktop icon (I2.3)

## Version 4.0, 2014-01-30

### A) Measurement:

- Improved offset calibration (4.2.4)

### B) Data, plot, evaluation:

- Applying of Read/View plot (curves) into the presentation plot program (2.2.1.3)
- Enhanced axis menu for 'All curves in 1 plot' (5.1.7.1)
- Improved compilation of 3-dim plot in PresProg (5.2.0.5, 5.2.3.2)
- The options for saving ASCII data and saving of a graphic file are now included in the basic software of the RH 2035 (5.1.1, 5.1.1.1)

### C) Documentation:

- Additional information in many chapters of the Software Manual
- Parameter guide (1.2.5)
- Additional information in the Installation Manual, especially in I3.5 to I3.8
- Documentation folder (I2.3)

### D) Others:

- All known bugs are fixed
- Supports Windows themes and styles (2.3.1)
- Disables Windows sleep mode while program is running
- New Sentinel protection key without driver installation (I3.1.1)
- Network connection enabled for temperature controller
- Measurement software runs also under 64bit Windows for new hardware
- Backup of configuration files (I3.6)
- Status monitor shows temperatures of last 20s (2.4.7.2)

## Version 3.4, 2012-08-29

### A) Measurement:

- Improved computer temperature ramp with new parameters (2.4.6.2.3)
- New temperature test procedure (2.4.6.4)

### B) Data, plot, evaluation:

- Improvements of the Plot Programs (5.1.7, 5.2.1)
- Additional features for showing all curves in one plot (5.1.7.2)
- MultiSelect (2.2.1.1)

### C) Documentation:

- Additional information in many chapters of the Software Manual
- Extended Hardware and Installation Manual

### D) Others:

- Improvement at high screen resolutions
- Temperature correction at bad thermal contact
- Sample parameters of many files (2.2.1.3)
- New diagnose monitors (17.8)

## Version 3.3, 2011-11-28

### A) Measurement:

- Improved waiting times at the measurement
- Enhanced field calibration for permanent magnet
- New offset voltage calibration procedure, individual for each amplification (4.2.4)
- Improved computer temperature ramp with new parameters (2.4.6.2.3)

### B) Data, plot, evaluation:

- Extended file search in the data explorer (2.2.1.2)
- Enhanced plots for checking a drift (3.2.6.4)
- Improved Presentation Plot Program (5.2)
- Anonymous mode for ConvData program

### C) Documentation:

- New chapters 5 and 6 of the Software Manual
- Detailed explanation of the drift measurement (3.2.6)
- Additional information in many chapters of the Software Manual
- Extended Installation and Basics Manual
- Help menu entry 'Manual for data' (2.5)
- New description of error messages
- Support of further PDF readers (2.5)

### D) Others:

- New features in all program modules
- Many improvements in all program modules
- All known bugs are fixed
- Additional diagnose modes (1.1.3)
- Support of further temperature controllers (see CryoFile.Txt)
- Extended SetConf program
- Support of HL5200 magnet