

Software Release Notes

Product: **ICMsystem**

Current Release: **3.68s (standard),  
3.68m (incl. multi channel functions),  
3.68a (incl. acceptance test funtions),**

Date: **05/07/07**

Download Site: <http://www.pdix.com/download.html>

Rem: Login and Password required

These release notes introduce the new features of the ICMsystem control software. Software and hardware upgrades can be ordered directly from Power Diagnostix office in Aachen, Germany. Free updates are available within one year after purchasing the instrument.

Ver. 3.67/3.68

- > File incompatibility with older versions fixed
- > New and modified functions for instruments with built-in spectrum analyzer hardware
- > DAT Files includes Spectrum Graphs and Spectrum Settings

Ver. 3.66

- > PD Auto Gain improved; Max Gain is limited by the Gain Setting during calibration
- > Voltage Divider adjustable during Acceptance Test Record
- > Acceptance Test Record Table shows units in the header line
- > Fast Reset (Clear) of Stripchart and Table via Menu or Toolbar Icon "Reset Stripchart/List"
- > SC Panel: Voltage Meter Mode adjustable via Double Click on the Label "Voltage"

Ver. 3.64/3.65

- > Stripchart in Acceptance Test Mode improved
- > RIV Linearity improved
- > RIV value with additional column in record table
- > Export to MS Office document includes stripcharts
- > Copy Stripchart to Clipboard with additional Y Axis Scaling
- > SC Panel; New Direct Calibration of Voltage and Charge by Double Click on the Meter;
- > Manual Trigger does no longer reset the automatic Trigger Timer (Acceptance Testing)
- > Record Time can be disabled to allow endless measurements

Ver. 3.63

- > Bug with new DAT File format fixed
- > New Movie Function available under the Menu Tools
- > Print Panel Utility supports new file formats
- > Lowest Range for RIV Auto Gain Adjustment set to 25% of full scale
- >

Ver. 3.62

- > Range Check for all setup parameters read from file
- > Wrong AMP U Cutoff Setting in MUX Panel fixed
- > RIV Calibration Panel activated for instruments incl. RIV Option only
- > IEC Meter shows always highest value within one refresh cycle

Ver. 3.61

- > Manual Sync Frequency Setting of 0Hz prohibited
- > Scaling of Voltage Curve improved

Ver. 3.60

- > Missing UIR File (only Ver. 3.59) included
- > New GATE Settings activated with FW 7.3x or higher

Ver. 3.59

- > Voltage Measurement can be toggled between RMS and Up/ $\sqrt{2}$  Modes (see Preferences)
- > VGA Display Resolution no longer available
- > PD Pattern Mode accessible with the Main Setup on the Front Panel
- > New Settings supporting newest hardware release: Input Mode of the Acquisition Board (AMP/GATE) and PD Pattern Mode (SPEC/AMP)
- > Modem Connection allows sending of Setup from Software to the instrument (New Popup Window)
- > ACCT Report: New: Data Directory Browse Button
- > Meter Scaling can be set in Manual Mode

Ver. 3.58

- > Missing Sending of Sync Channel Setting to the instrument in AT Panel fixed

Ver. 3.56

- > Switching the active Channel with a running Record allowed in AT Panel
- > Consecutive File Numbering starting with 1 instead of 0
- > Global Settings improved
- > Date / Time Setting within the RIV Calibration Panel corrected
- > Wrong RIV Correction Factor loaded from files fixed
- > PAUSE function within the AT Panel improved (Triggering stopped)
- > PAUSE function: Wrong calculation of Total Time fixed
- > PAUSE function: New Delta Time can be used as start/stop counter

Ver. 3.55

- > New: Help About Panel with additional information about hardware status
- > Spec Panel: Dwell Time (Sweep Time) adjustable
- > Dial Popup Window: Setting the Mouse Cursor in the upper Line will no longer reset the entry
- > Spec Panel: Settings can be set to global or individual

Ver. 3.54

- > Calibration Panel accessible in Offline Mode
- > New Warning: Switching Cal Mode from SINGLE to ALL
- > File Prefix of Automatic generated DAT Files starting with 1 instead of 0
- > RIV Calibration: Adjust Value accessible with new Popup Window
- > New Warning: Changing the Acquisition Mode

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Ver. 3.53

- > Bug fixed: Sync Channel was not set correctly after loading new files
- > AT Panel: Stripchart shows only triggered data points
- > Sync Channel Setting saved correctly

Ver. 3.52

- > Spec Panel: Switching Channels improved
- > MC Panel: Scaling of the Y-Axis of all maps updated with modification of the Gain
- > PD Auto Gain only active if Preamplifier is connected

Ver. 3.51

- > New: Automatic Gain Adjustment for PD Measurement within the AT Panel
- > X Axis of Stripchart Display set equal to Set Time for PD Pattern Acquisition
- > New Warning for Clear Function within the RIV Calibration Panel
- > Spec Panel: Copy Function available
- > Spec Panel: Trace A, Trace B
- > Bug fixed with MC Panel: Wrong Scaling of Channel 2 corrected

Ver. 3.50

- > RIV Slider improved
- > RIV Automatic Gain improved

Ver. 3.49

- > Print Utility Panel: Loading of new dat Files improved
- > Printutil.c: Laden von neuem Dateiformat berücksichtigt
- > Recal Routine lädt nun auch neues Dateiformat
- > modem.num Default Datei zurückgesetzt (ohne Modemnummern)
- > „Save History Files“ unter Preferences eingeführt

Ver. 3.48

- > Pre Gain adjustable within RIV Calibration Panel
- > Global Settings available within the RIV Calibration Panel
- > Improved Linearity of RIV Measurement
- > Reversed Direction of the Ellipse Display

Ver. 3.47

- > GPIB Communication borted with RIV Gain 4; Bug fixed
- > Improvements of the RIV Calibration Panel

Ver. 3.43

- > Bug of Load Function (Rel. 3.38-3.42) fixed; File incompatibility problem
- > Program backup file corrected;
- > Saturation of RIV Value indicated

Ver. 3.42

- > Improved Adjust Function within RIV Calibration Panel
- > Faster Refresh of RIV Values within ACCT Panel

Ver. 3.41

- > File Conversion Function (\*.dat -> \*.mon) includes the Calibration of the Measurement

Ver. 3.40

- > Modem Communication improved
- > RIV Measurement provided within AT Panel

Ver. 3.36

- > Multi Threading Communication Structure improves the processor workload during serial communication with the instrument
- > Program supports TCP/IP Interface Module

Ver. 3.35

- > A warning is generated when calibrating all channels in one step
- > Cross Coupling Matrix Table shows individual names of the channels
- > Calibration of all channels in one step sets Time and Date of the calibration equal
- > Scope Display shows the acquired voltage shape also in idle mode
- > Trending Information of voltage and Qp is stored in background during a running acquisition; This enables Replays and readjustment of acquisition times;
- > New: Meter Scaling Mode (AUTO/MANUAL), can be set with Preferences Settings
- > Record lässt sich im AT Panel unterbrechen und fortführen
- > New warning when starting Multi Channel Measurements
- > New: Elliptical Display Mode
- > Copy Function available for Scope and Ellipse Display
- > Copy Funktion funktioniert jetzt auch fürs SCOPE Bild
- > By loading multiple files on Channel 1-8 the individual set times is set correctly to the individual setups

Ver. 3.34

- > Charge Level can be shown as pC [nC] value or percentage level; see menu Edit -> Charge Unit
- > PD pattern can be saved as BMP files separately; see menu File -> Save PD Pattern...

Ver. 3.33

- > Taking PD Pattern (Maps) in the background within the AT Panel improved; Bug with empty files and wrong date and time fixed
- > Scope Display for Instruments (FW >=6.0x) improved

Ver. 3.32

- > PD pattern with low number of PD pulses (<5) has been displayed incorrectly with software releases 3.25 up to 3.31; bug fixed
- > LLD setting of 0% prohibited
- > Scope Display for Instruments (FW >=6.0x) improved

Ver. 3.31

- > Supports new Firmware release 6.xx
  - > Scope Display showing continuously PD activity vs. Phase
- > Sync In Channel Setting within SC Panel didn't work correctly with former versions

Ver. 3.30

- > New integrated Print Utility replaces separate program *ICMprint*

Ver. 3.29

- > Direct Printout problems fixed
- > Bug within the Report Panel fixed
- > Meter with big letters for discharge value and voltage value

Ver. 3.28

- > GPIB Default Timeout to 10s (3s can cause GPIB communication errors)
- > New axis labels for small patterns within MC panel
- > New print function for the calibration matrix within the "Calibration Panel" (AC Panel)
- > Rescaling of stripchart within AT panel improved

Ver. 3.27

- > Report Comment improved
- > AT Panel: 'Gate Settings' replaced by 'Sync In'; Gating function has to be set up within SC Panel or MC Panel
- > Setting of 'Sync In' remain unchanged while switching between different Panels
- > Print function improved
- > MC Panel: Cursor Position adjusted
- > Changing settings from global to individual during a running acquisition is not allowed
- > Gain Settings sent faster to the instrument
- > AT Panel: Pre Gain LED updated correctly

Ver. 3.26

- > GPIB error handling improved; automatic repair of communication process
- > Bugfix within SC or MC Panel: Assignment of setup and active channel number corrected
- > AT Panel: Voltage and PD measurement can be enabled or disabled for each channel separately
- > AT Panel: Calibration Matrix Panel can be opened without interrupting the communication and the read cycle of PD and voltage
- > AT Panel: After having changed the Record Mode within the menu, the Record Mode value on the main display is updated
- > AT Panel: 'Calibration Panel' during a running record locked
- > MC Panel: Address Entry remains visible, anytime
- > AT Panel: Warning if record data does not exist (Save, Export, Copy...)
- > During a running pattern acquisition it is allowed to switch between all three Panel (AT Panel, MC Panel or SC Panel)
- > Toolbar Icon 'Counts per Second' inserted
- > Miscellaneous warnings inserted
- > SC Panel: Stripchart with individual x-axis scaling
- > AT Panel: Export to HTML and TXT format improved
- > Drift of Voltage measurement in higher frequency ranges corrected
- > AT Panel: Load/Save of complete data records implemented
- > Recalibration of existing DAT-files made possible; new menu 'Tools/Recalibration...'
- > AT Panel: Standby Mode removed
- > AT Panel: Individual selection of triggered data for export and report creation, see checkmark within the table
- > SC Panel: Global settings of Gain, Filter or Gating will be sent to the instrument immediately (only important for instruments with 8 parallel AMP boards)
- > Count Level Slider beside the pattern display can be changed during a running acquisition

Ver. 3.25

- > Special characters within the report allowed
- > AT Panel: Cancel Button within file-select-popup Window under Export activated

Ver. 3.24

- > GPIB Communication improved;

Ver. 3.23

- > Acquisition Mode 'Multi Channel Consecutive': Delay Time with new meaning
- > New: Statistic Panel

Ver. 3.22

- > Load and Save Mode under Preferences
- > Acquisition Mode 'Multi Channel Consecutive': Delay Time modified
- > 3-D Graph does not remain in memory when toggling between different displays
- > Mux Panel with Toolbar Icon 'Preferences'

Ver. 3.20/3.21

- > Changing the display size of the program panel corrected
- > New Color Table under menu 'View' accessible
- > Reset of Stripchart in dependence of the value that was modified (general reset removed)
- > The program generates an automatic question for the export of data in case the measurement was stopped automatically
- > Starting a pattern acquisition sets the measurement mode to "Single channel Measurement"
- > Voltage Measurement can be enabled or disabled individually for each channel
- > New Calibration Matrix within the AT Panel now available
- > Gate Mux Setting activated
- > AT Panel Record: after an automatic stop of the record, the software toggles the run mode to 'Hold'
- > Some additional warnings when changing the calibration
- > 3-D Graph with 6 Grids instead of 5
- > Bug within the display of projections vs. x-axis repaired

Ver. 3.xx - 3.19

- > Menu Options replaced by Edit Preferences Panel
- > User will be asked if measurement data will get lost by starting a new acquisition; This new option can be turned on and off under Preferences
- > Templates can be used to create default setup structures and to lock individual settings
- > Disabled channels are dimmed within the AT Panel
- > PD values that are out of range, are marked with a ">" sign within the table of the AT Panel
- > Loading and Saving of DAT Files of all eight channels in one step; This new option can be turned on and off under Preferences
- > The Record Mode can be switched between manual and automatic during a running record
- > The checkmark boxes are no longer red marked when active within the MC Panel
- > The program supports up to 16 different GPIB boards; see additional Search Options under Preferences
- > The phase position is now adjusted to the current measurement frequency
- > Toolbar Icon "Measuring Mode" is deactivated during a running acquisition
- > Miscellaneous program improvements