

# RELEASEnotes

## Perception & GEN Series firmware V6.50.14146

These release notes are:

Perception:

from V6.42.13287 to V6.50.14146

GEN series firmware:

from V6.42.13287 to V6.50.14146

Firmware release notes are an integral part of the software and these release notes.

### Supported/Tested Windows 32 bit versions:

- Windows Vista Business SP2
- Windows Vista Ultimate SP2
- Windows 7 Ultimate SP1
- Windows 8 Pro

### Supported/Tested 64 bit versions:

- Windows Vista Business SP2
- Windows Vista Ultimate SP2
- Windows 7 Ultimate SP1
- Windows 8 Pro

And Windows Updates until 8<sup>th</sup> April 2014.

**IMPORTANT:** Perception is no longer supported on Windows XP.

### Supported/Tested Genesis High Speed platforms:

- GEN3t
- GEN7t
- GEN16t
- GEN5i
- GEN3i
- GEN2i
- LIBERTY4
- LIBERTY8
- ISOBE5600

**IMPORTANT:** LIBERTY is supported in maintenance phase until November 2014\*

\*Projected date, actual date may differ depending on Perception release schedule.

### Supported/Tested QuantumX platforms:

- MX1609B-K

# RELEASEnotes

All Perception versions require Dot Net Framework V4.0 which will be distributed with the install and is also available for download on the internet.

All Perception versions also require a Microsoft Direct3D® capable graphics card.

This version is distributed using the following editions:

- 1-PERC-VW            Viewer Edition
- 1-PERC-VA           Viewer Advanced
- 1-PERC-ST           Standard Edition
- 1-PERC-AD           Advanced Edition
- 1-PERC-PRO          Professional Edition
- 1-PERC-E64          Enterprise Edition

The following options are part of this version:

- 1-PERC-OP-MWB      Multiple Workbooks
- 1-PERC-OP-MEX      Multiple Exports formats
- 1-PERC-OP-MMF      Multiple Mainframes
- 1-PERC-OP-AN       Analysis (Formula database)
- 1-PERC-OP-RP       Reporting & Word Reporting
- 1-PERC-OP-IF       SOAP & RPC Interface
- 1-PERC-OP-VP       Video Playback
- 1-PERC-OP-CSI-2     CSI Runtime
- 1-PERC-OP-STL       Advanced High Voltage/High Power analysis (STL)
- 1-PERC-OP-IS       Customized Info sheets
- 1-PERC-OP-HHP      HP-HV Automated Analysis
- 1-PERC-OP-BE       BE256 / MultiPro Control
- 1-PERC-OP-BFFT      Basic FFT
- 1-PERC-OP-HIA       HVIA
- 1-PERC-OP-SEQ       Sequencer (BE3200)
- 1-PERC-OP-SDB       Sensor Management
- 1-PERC-OP-EDR       eDrive application (setup & live)

# RELEASEnotes

The following features have been added:

## Perception:

- 10616 Add COMTRADE export format to Perception
- 10670 QuantumX 1609 thermocouple basic support
- 11027 Add an option to hide the range indicator drawn at the y-axis of a display in a report
- 11197 eDRIVE project: Allow resampling in automated export dialogs
- 11209 eDrive project: Allow zero-span and Two-point linearization in the Sensor database for "current probe with voltage out" and "voltage probe sensors"
- 11214 eDRIVE project: Add formula database function for SIGNUM calculation
- 11222 Implementing main-menu Copy/Paste actions for Perception components like Displays, tables
- 11299 add CATMAN binary file reader
- 11325 Get and set the Current Archive folder via RPC
- 11336 Improve network throughput for ADC > 16 bits
- 11341 Perception no longer supported on windows XP
- 11347 Add network Load overview/handling

## GEN Series firmware:

- 11285 Add RealTimeCalculations support to 32-channel board
- 11326 IM2 has unwanted 2 Terra byte restraint for local storage and iSCSI
- 11403 Add possibility to correct trigger times, based on external 1PPS pulse

The following improvements have been made:

## Perception:

- 10580 eDRIVE project Phase 1: Timer Counter channels are very slow in review displays
- 10617 Update MATLAB export format from Matlab 5 to Matlab 2012
- 11148 Annoying behavior of settings sheet channel color picker
- 11248 Perception auto start on Integrated system should be interruptible by pressing Ctrl+Shift
- 11328 Using frequency RTC channel while in 16 bits mode gives unclear message box

## GEN Series firmware:

- 11123 Decreased External Trigger Out delay time

# RELEASEnotes

The following errors have been fixed:

## Perception:

- 9091 Auto Exports should not prompt for directory creation
- 10624 Report - Display Properties, changes to e.g. Trace Width are not saved and can crash Report to Word.
- 10658 Number of samples in export dialog always says 1.000 when complete recording selected
- 10971 Sweep information after recoding has finished not always up to date
- 11097 Getting continuous throughput problem message when using external timebase
- 11174 Y-Axis Values not displayed on .RAW Recordings
- 11208 File/Save a Copy As ... does not export RTC calculated channel data
- 11224 Calculated (RMS) channel is not display after a circular buffer recording
- 11230 Problem get value from CycleDetect function under special conditions
- 11234 GEN3i Perception shows -1 as serial number in Instrument Panel GUI
- 11257 Timer Counter Channels in XY display causes problems
- 11258 Formula Database @Min generates false values on calculated channels
- 11260 Perception Crashes on Calculator function of Calculated Channels
- 11263 Disabling all recorders result in "collection being modified" error
- 11266 Make Systembus Trigger 3 behaviour to share calculated channel triggers by default
- 11267 Starting GEN3i with an external MAinframe attached , shows internal mainframe 2 times
- 11268 Channel name of Calculated Channel not always set to default after load default settings
- 11269 Display range of Caclulated Channels disabled after using "Load Default Settings"
- 11270 Selecting a color for a Calculated channel messes up setting sheet
- 11271 1kV RMS channel analysis causes Perception crash
- 11274 Incorrect number of samples shown when exporting 'between cursors'
- 11280 Settings for the external start and stop pins are not stored as part of a VWB or Experiment
- 11281 Inconsistency Fast sweep mode setting in Slow Fast Sweep mode
- 11282 Displays corrupted after using remote desktop and screensaver and/or CTRL+ALT+DEL
- 11286 Can't select "Bessel IIR" filter in Instrument Panel mode
- 11290 reduce the number of rows in a user table to zero crashes Perception
- 11294 1kV and 250kS boards cannot handle more than 50 sweeps a second; expected is 400
- 11297 Export recording option grayed out with open PNRF file
- 11298 GEN3i lists Perception version as Enterprise but doesn't have Enterprise options
- 11307 TU Multiplier not applied on 1 MS/s cards
- 11312 Display processing automation of sweeps in multisweep recordings produces wrong values in log file

# RELEASEnotes

- 11313 STLX\_SymmetricalPowerFactor does not produce result in some cases
- 11318 Scroll bar position and size seems to be incorrect when zooming in on PNRF recording
- 11319 Wrong fiber Power level status returned in RPC call GetPowerStatus()
- 11320 STLPrev3CrestRMS does not produce a result in some cases
- 11322 RMS real-time calculated channel data not displayed correctly with different reduction factors or during export
- 11323 Auto scale of trace doesn't work in scrolling live display
- 11324 Matlab example file fails - depending on PNRF file used as input
- 11327 Crash when entering a negative value into the formula wizard
- 11329 Crash while editing a formula
- 11333 Perception fails when opening a catman Sensor Data Base
- 11340 Workbench with Sweepsetting not correctly loaded
- 11346 Sometimes wrong minimum values are returned by the Min() formula
- 11351 Strange behavior of display when Time Format is set to something else than "Relative to Start" or "Relative / Tick"
- 11371 Perception is unable to display videos when sound device is disabled.
- 11375 Sweeps: Y-value at cursor not shown for Cycle based Formula traces
- 11379 QX1609 in Perception: Sometimes a warning is shown when restoring default settings
- 11387 Recording name is not erased in Instrument Panel after loading saved setup with no open recording
- 11388 Loaded recording is not displayed as loaded after switching to the Instrument Panel

## GEN Series firmware:

- 11120 All status information on GEN-series frontpanel should also be available through Perception
- 11226 GEN3i cannot communicate with 16/32 and 1kV board when it is inserted for the first time
- 11227 GEN3i I2C communication fails with status 0
- 11239 GN1610/11 and GN3210/11: Bandpass filter fails when using 10 kS/s (or lower) samplerates
- 11250 IM2 is using cmos clock device, this is incorrect, it should use the dc3231
- 11277 In the 6.42 release it is not possible to format the internal SSD disk of the IM2
- 11287 Timeshifted trace display of TimerCounter channel in frequency mode
- 11291 GEN5i front panel buttons crash firmware
- 11292 GN610/611 (1kV boards) DC offset in channels after changing timebase settings
- 11300 32-channel board Elliptic filter for 6.250 kHz incorrect
- 11330 GEN3i Binary mode cannot synchronize
- 11349 GN412/GN413 (100 and 25 MS/s cards): Triggers from calculated channels are misplaced

# RELEASEnotes

**HBM GmbH**

[www.hbm.com](http://www.hbm.com)

Email: [info@hbm.com](mailto:info@hbm.com)

Tel. +49 6151 803-0

Fax +49 6151 803-9100

measure and predict with confidence



xxxxxx-x.0  
en