

## Revision History.txt

v3.82

30-Nov-17

Monaco:#943 - Fixed a problem with the amplifier drop-down in Monaco when using interpolated rep rates  
Display "Custom" on the triggering tab of the Monaco GUI when using a custom row  
Resolved Monaco:#844 - Fail gracefully when TxControl not installed

v3.81

27-Nov-17

Added a new communication class for VCOM over USB  
Extended the mutex timeout in the terminal form from 30 to 45 secs to allow for the ?HELP query in DEBUG mode  
Added support for LZ0 decompression of communication with laser  
Don't display PCs with their telnet server enabled in the EthernetDiscoveryForm  
Changed the data structure used to track previous commands in TerminalControl to keep commands and replies synchronized  
Added regular expression searching to the details tab, the graph scale form, the export form and the import form  
Resolves Monaco:#889 - State gets stuck as "Stopping"  
Resolves Monaco:#888 - Branch name not displayed correctly when upgrading the GUI  
Resolves Monaco:#904 - Add support for SHGEXT  
Resolves Monaco:#908 - Update seeder burst shape form  
Resolves Monaco:#899 - Don't display parameter lists in SettingsForm for laser where they are not relevant  
Resolves Monaco:#917 - Added a form to optimize PWAOG  
Resolves Monaco:#941 - Row cannot be set as a custom row without having a name  
Monaco:#931 - Use LMPOWER to calculate the pulse energy in the amplifier drop-down  
Fixed a problem with parsing and displaying the Monaco rep rate when running on a German PC  
Added a burst shape editor for Monaco  
Fixed a problem in the Monaco GUI where the pulse width control would not be visible  
HyperNX:#588 - Change AOM2 width parameter in Triggering Tab dependent on firmware version  
HyperNX:#589 - Frequencies in LRRB window should be sorted by value  
AVIA LX:#281 - Moved THMT control to the same y position as RFMIN to fix the resizing the AVIA LX service triggering tab  
AVIA LX:#303 - Store power meter readings in the laser if the laser supports this  
Resolves AVIA LX:#291 - Add AVIA LX link to "Visit AVIA webpage" button  
Resolves AVIA LX:#298 - Don't display seconds on charts in Singapore  
Resolves AVIA LX:#149 - Allow commas in CrystalMapForm  
Resolves AVIA LX:#297 - Reply with "Error, bad command" if ß character is sent  
Resolves AVIA LX:#305 - Add "Consumed" to CrystalMapEditForm  
Resolved AVIA LX:#302 - Allow Export tool to export to Excel in German  
Resolves AVIA NX:#1022 - Increase mutex timeout when reading ?HELP over RS232 with low baud rates  
Resolves AVIA NX:#1003 - Release and reacquire LOCKOUT when switching from one connection mode to another (e.g. RS232 to USB)  
Resolves AVIA NX:#1024 - Don't display heartbeat warning when switching connections if connection has been dropped  
Resolves AVIA NX:#1023 - Cache ?HELP query in GUI  
AVIA NX:#1022 - Scaled the mutex timeout by the connection baud rate in TerminalControl  
AVIA NX:#1026 and AVIA LX:#312. The spot temperature data has been removed from AVIA NX  
Correctly identify number of diodes for AVIA NX 355-30 and 532-45  
Added servo panels for the etalon and THG to the OBIS GUI  
Added support for C18

v3.80

5-Sep-17

AVIA LX:#263 - Add FPCT to Lookup table Add and Edit forms

v3.79

## Revision History.txt

30-Aug-17

The number of ticks in charts now depends on the size of the chart  
Chart control now looks at all the combinations of divisions and decimal places which give a fractional error of less than or equal to  $1e-4$ , then it chooses the one with the fewest number of decimal places and the largest number of

divisions

When auto scaling charts, multiples of 5 are now used in addition to 10  
If all of the data points in a chart are integers then don't display decimal places on the vertical axis

Increased receiver buffer in IpPort from 8K to 128K

Moved the unzip and import activities in DataImportForm into separate threads which can run in parallel

When importing data check for floating point numbers encoded as strings, and convert them back to floats

Changed the code to set the culture to en-US by checking the existing culture explicitly after discovering that en-SP for Singapore caused a problem

Resolves VSTS #459 - LogFileListView holds the serial mutex for much too long

Resolves VSTS #465 - Fix Snapshot create button

Importing snapshots is now faster as the items are inserted into the form in a batch  
SnapshotForm now updates the progress bar while importing from Excel

SnapshotRestoreForm no longer shows message boxes for each failed settings, it uses a column in the form to display all the results

SnapshotRestoreForm now holds the mutex for the whole restore process, tries several times, and uses SPOTCAL=1 when needed

Copied a feature from the firmware into the GUI where if the mutex is extended while a thread is waiting for it, then the thread will wait again

Ignore notifications received from the laser after the reconnection process has started. These notifications were updating the GUI after it had been cleared before disconnecting from the previous laser.

When trying to connect using USB the GUI will now switch to RS232 if it detects a HOPS laser attached as a VCOM device

DataDownloadForm now reads from the root folder on the web server if it exists

The datalogger now acquires the iSerial mutex before changing connection type

Added support to log into OBIS lasers in service mode

Added support for changing temperature servo set-points in OBIS GUI

Resolves Monaco:#872 - GUI should display text returned by ?IRE

Resolves Monaco:#875 - Allow switching to the existing interpolated mode

Resolves Monaco:#760 - Don't display the -VP part of the Monaco model name

Monaco:#779 - Correct spelling of "Optimizer" on PD4 Optimizer window title

Monaco:#835 - DataDownloadForm now embeds the zip within another zip

Changed "Burst" to "Process Burst" in the Monaco GUI

Made IRP work the same way as IRE in the Monaco GUI in terms of displaying the text from the firmware

Fixed a problem in the Monaco Lookup Table where edits to the active row were not applied

The PD4OptimizerForm for Monaco now displays correctly on Japanese PCs

AVIA LX:#241 - Enable the THGT2 chart button when reconnecting to the laser

Resolves AVIA LX:#252 - Allow SPXMAXS up to 20000 in the crystal map form

Resolves AVIA LX:#241 - Make THG2 controls in GUI work properly

Resolves AVIA LX:#281 - Reorganize Triggering Tab

Resolves AVIA LX:#263 - Add FPCT to the lookup table