

PicoQuant Laser Driver

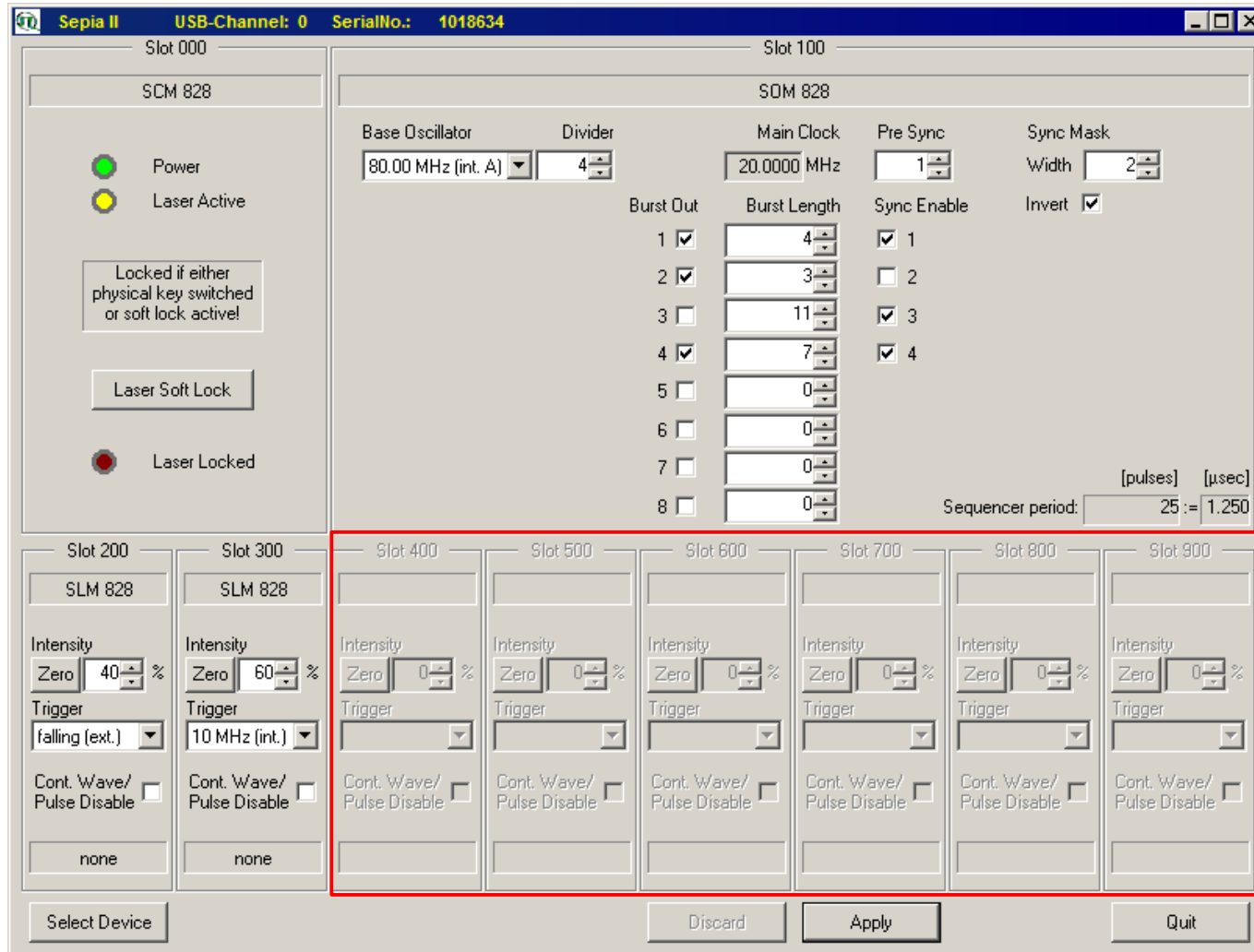
PQLaserDrv

A new Graphic User Interface (GUI) for the *PDL 828 “Sepia II”* with a generic driver for all computer controlled lasers from PicoQuant



Until now: classical Graphic User Interface

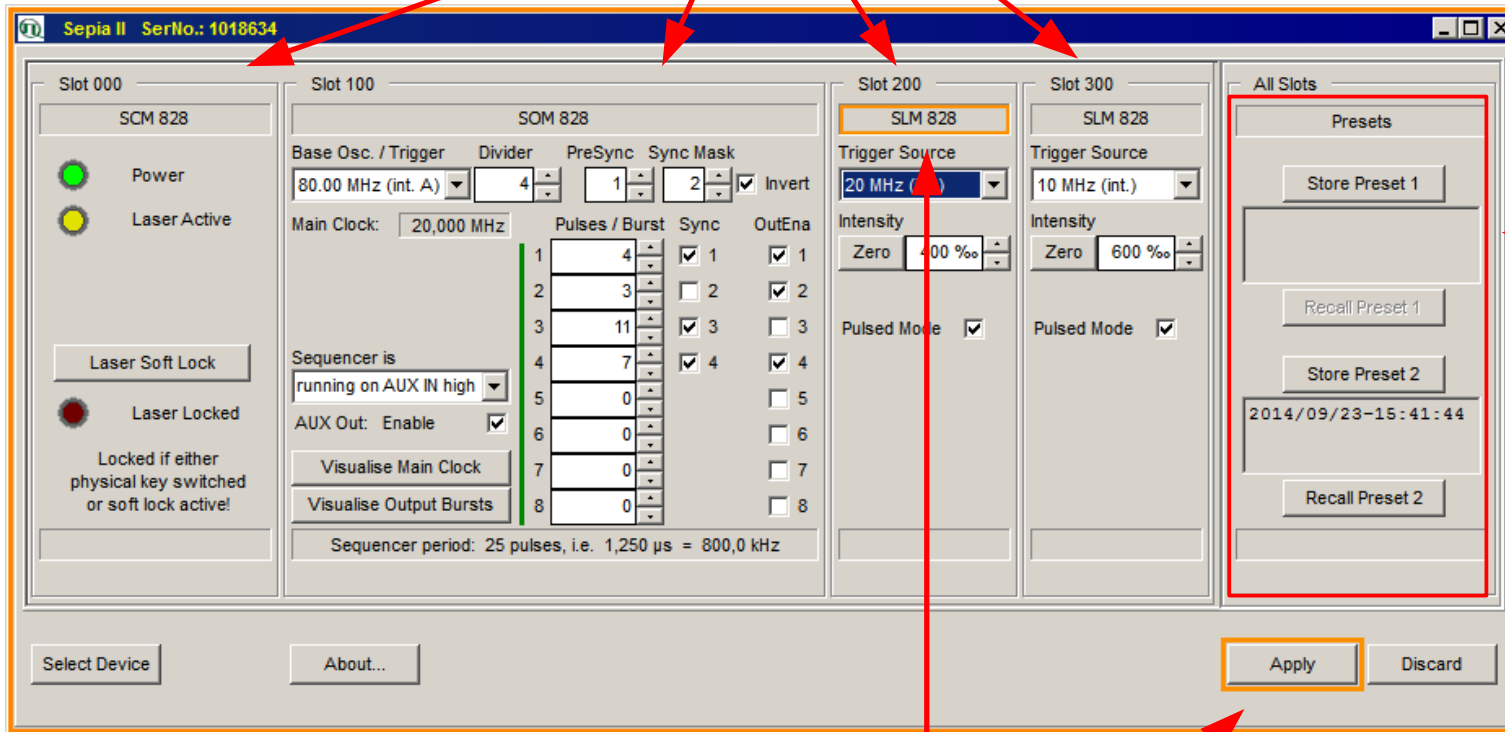
Fixed layout independent from the configuration of the device.



← Inactive modules were greyed

New Graphic User Interface (GUI)

Flexible layout. Only **active modules** are shown. Inactive modules disappear



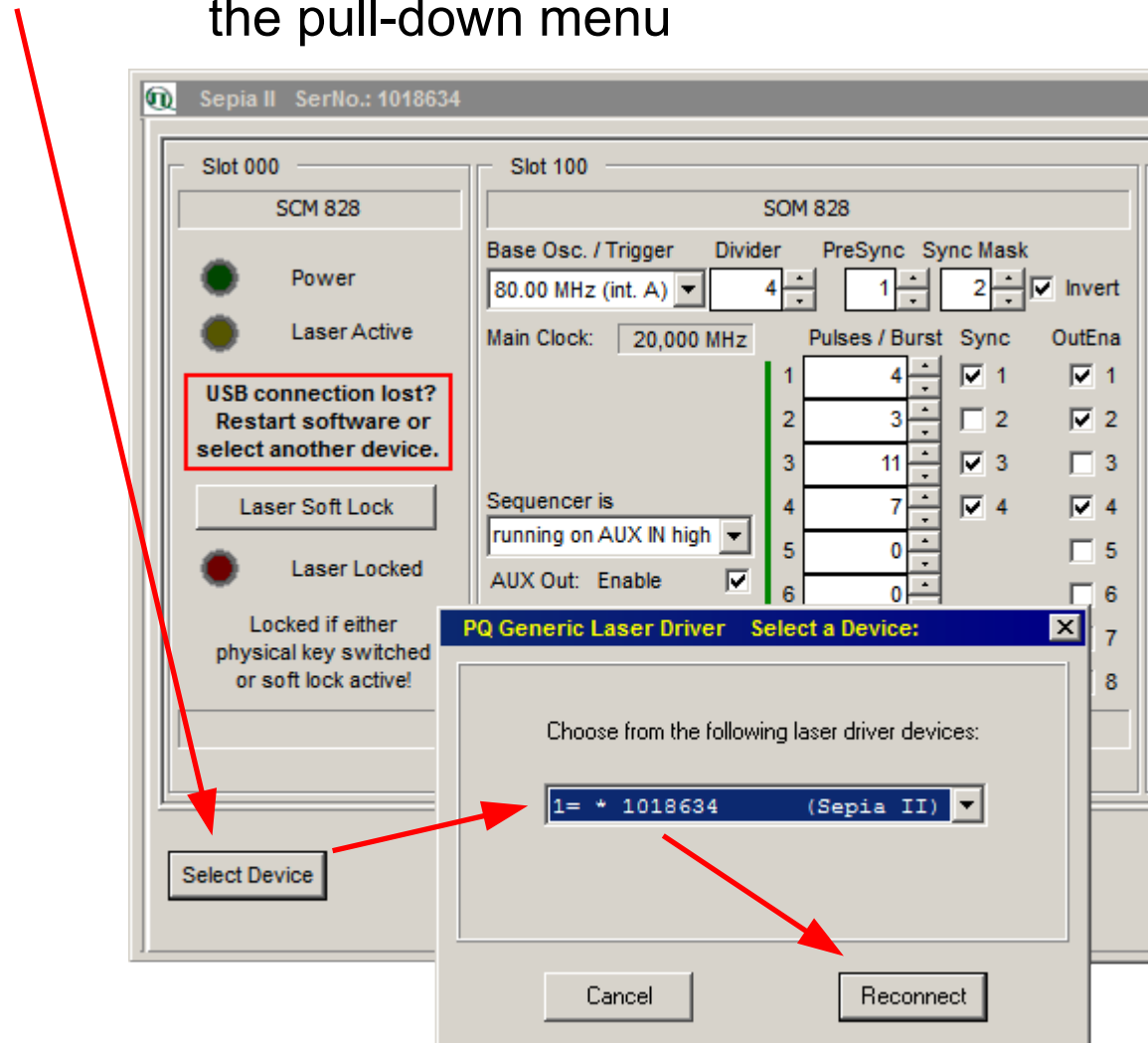
New **Presets** function to store and recall settings

Setting **modification** are clearly **highlighted** (orange circled)

New GUI – Select Device

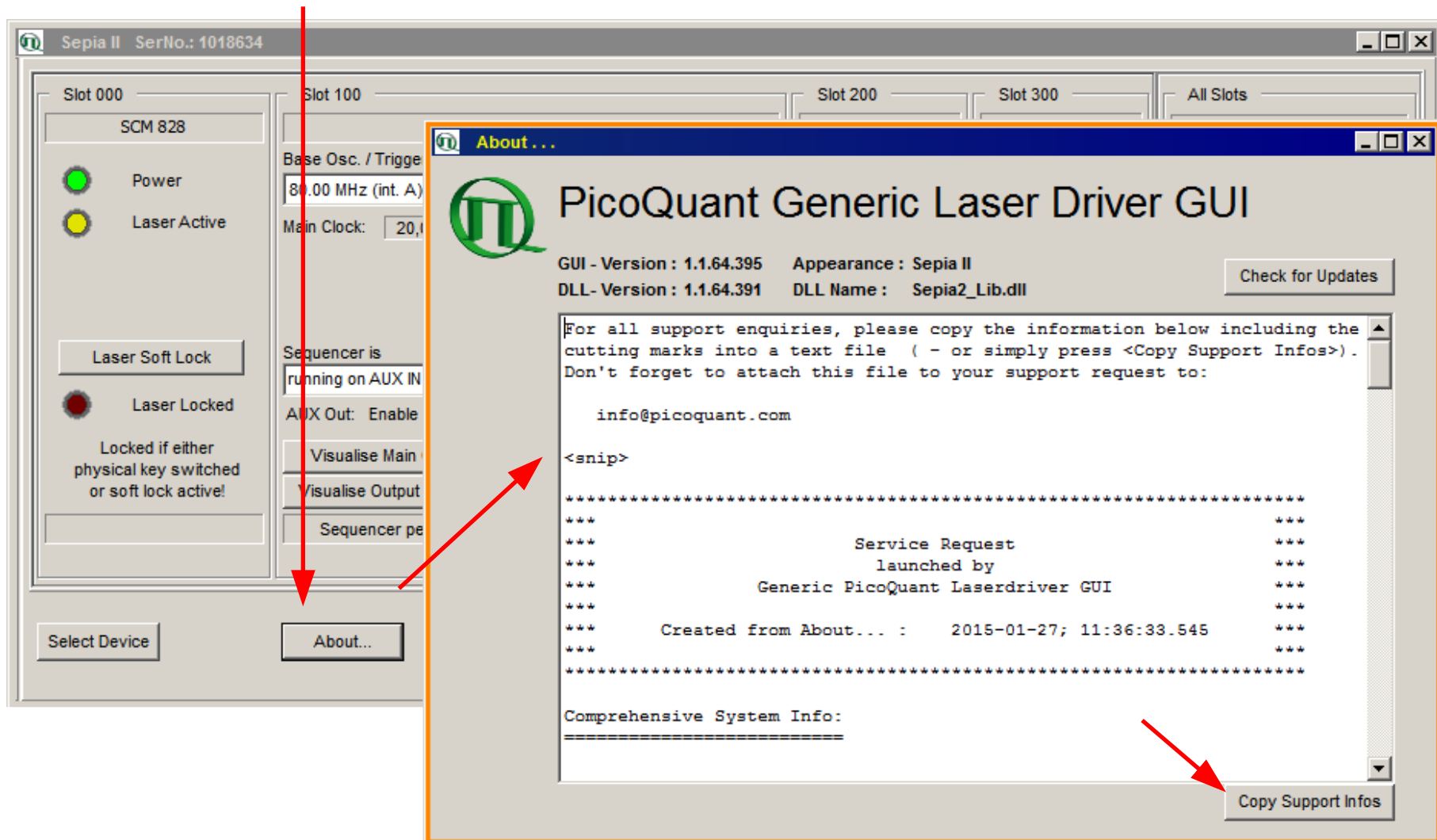
No need to restart the software in case another laser device needs to be set-up or in case the USB-connection is lost.

A simple click on **Select Device** and **Reconnect** the desired device chosen in the pull-down menu



New GUI – Improved Support

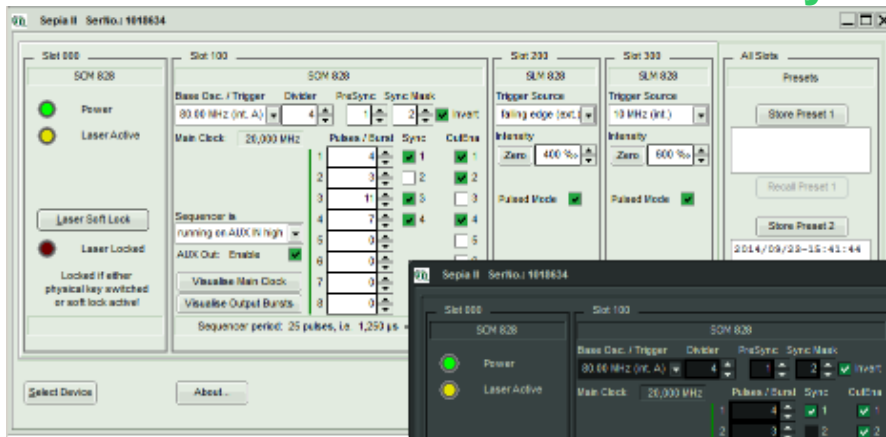
All relevant **support information** regarding Software, Firmware & Hardware of the device can be generated in a diagnostic datafile by a simple mouse click on the new **About...** button.



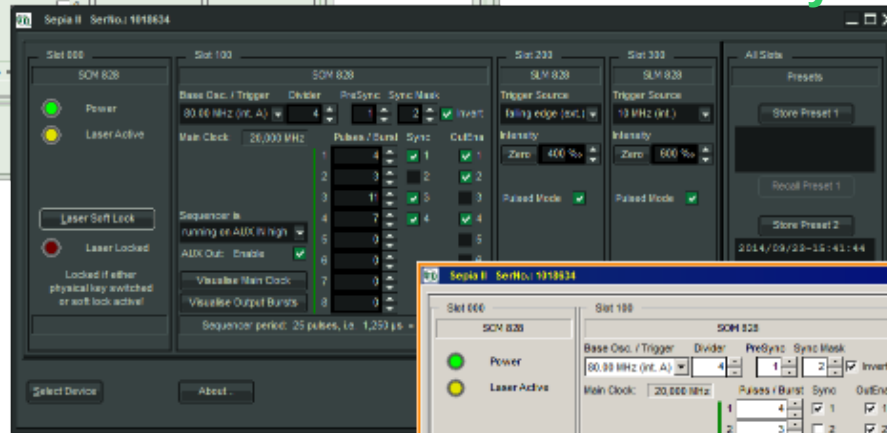
New GUI – Colour Schemes

The GUI can be displayed in several colour schemes, PicoQuant Bright PicoQuant Dark or Windows configuration (can be changed in windows control panel).

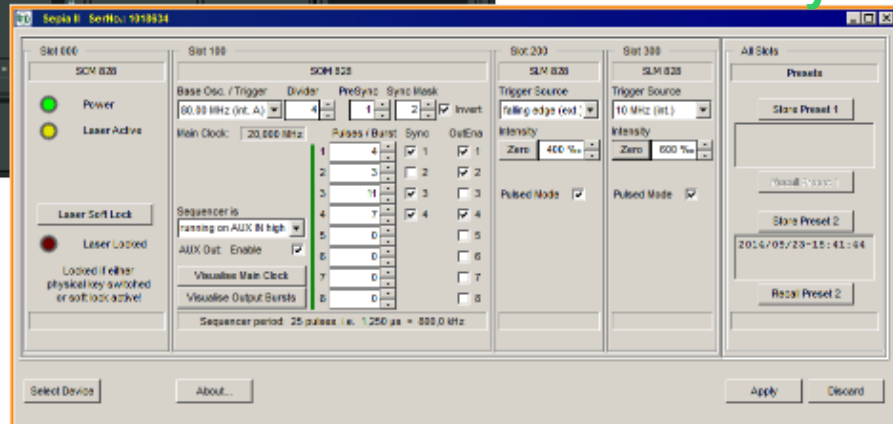
-style=bright



-style=dark



-style=windows



These colours schemes are similar to the ones used in our software SymPhoTime 64.

New GUI – New Oscillator Functions

The sequencer can be controlled with the Auxiliary Input in several modes:

- Free running (AUX IN has no influence)
- Running on AUX IN = High Level
- Running on AUX IN = Low Level

The Auxiliary Output signal can now be enabled or disabled

The pulse train of the **Main-Clock** and the **Output Bursts** of the respective trigger outputs can be visualized (see next page)

Slot 100

SOM 828

Base Osc. / Trigger: 80.00 MHz (int. A) | Divider: 4 | PreSync: 1 | Sync Mask: 2 | Invert

Main Clock: 20,000 MHz

	Pulses / Burst	Sync	OutEna
1	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	11	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	0	<input type="checkbox"/>	<input type="checkbox"/>
6	0	<input type="checkbox"/>	<input type="checkbox"/>
7	0	<input type="checkbox"/>	<input type="checkbox"/>
8	0	<input type="checkbox"/>	<input type="checkbox"/>

Sequencer is: running on AUX IN high

AUX Out: Enable

Visualise Main Clock

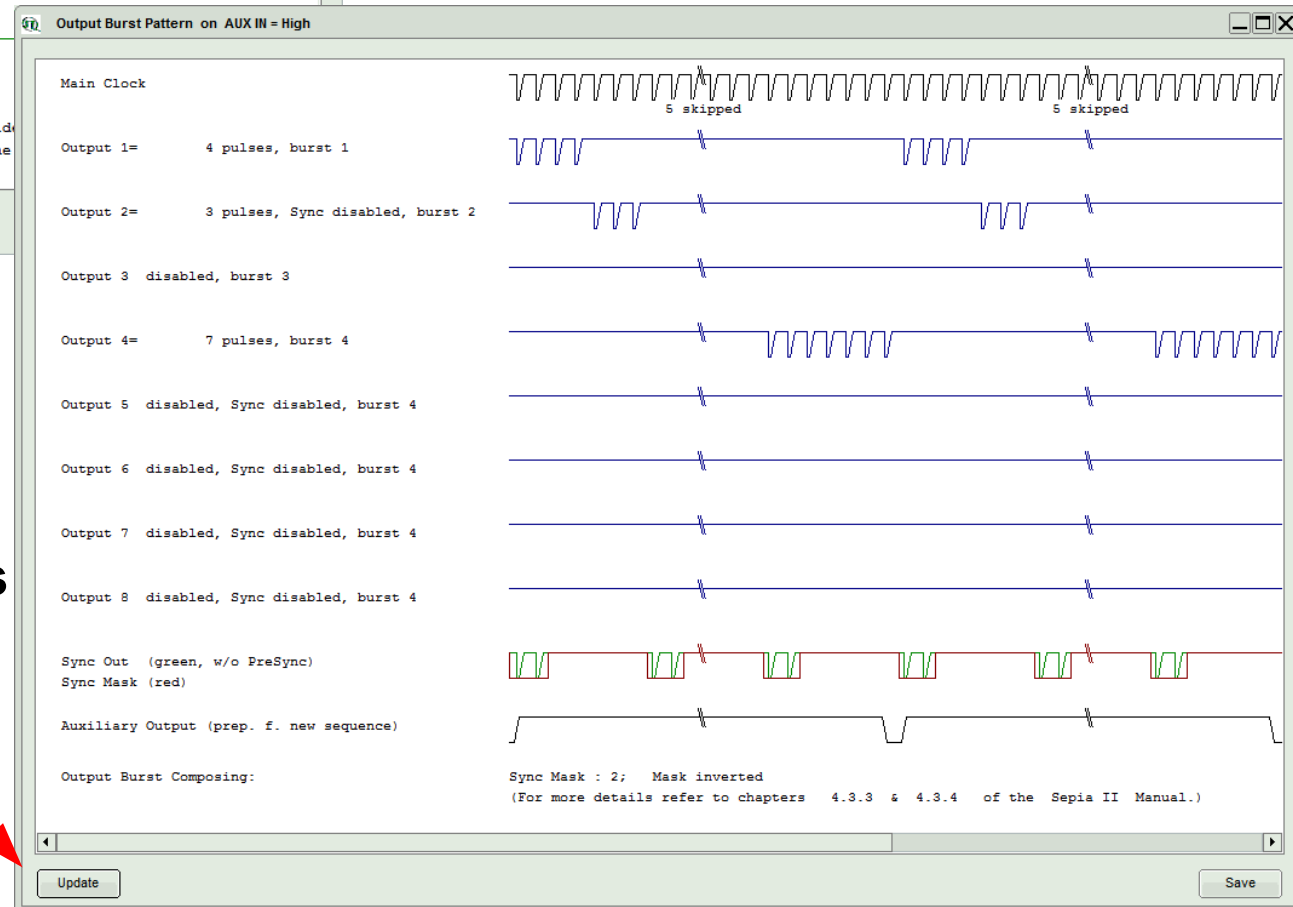
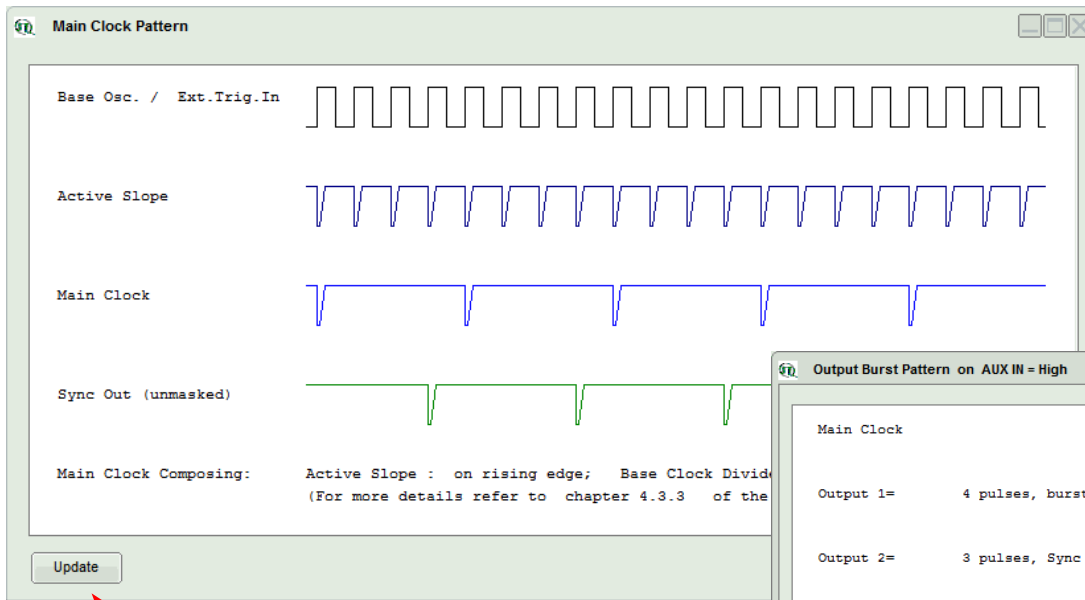
Visualise Output Bursts

Sequencer period: 25 pulses, i.e. 1,250 µs = 800,0 kHz

New GUI – Visualization of the Bursts

Main-Clock & Pre-Sync Visualization

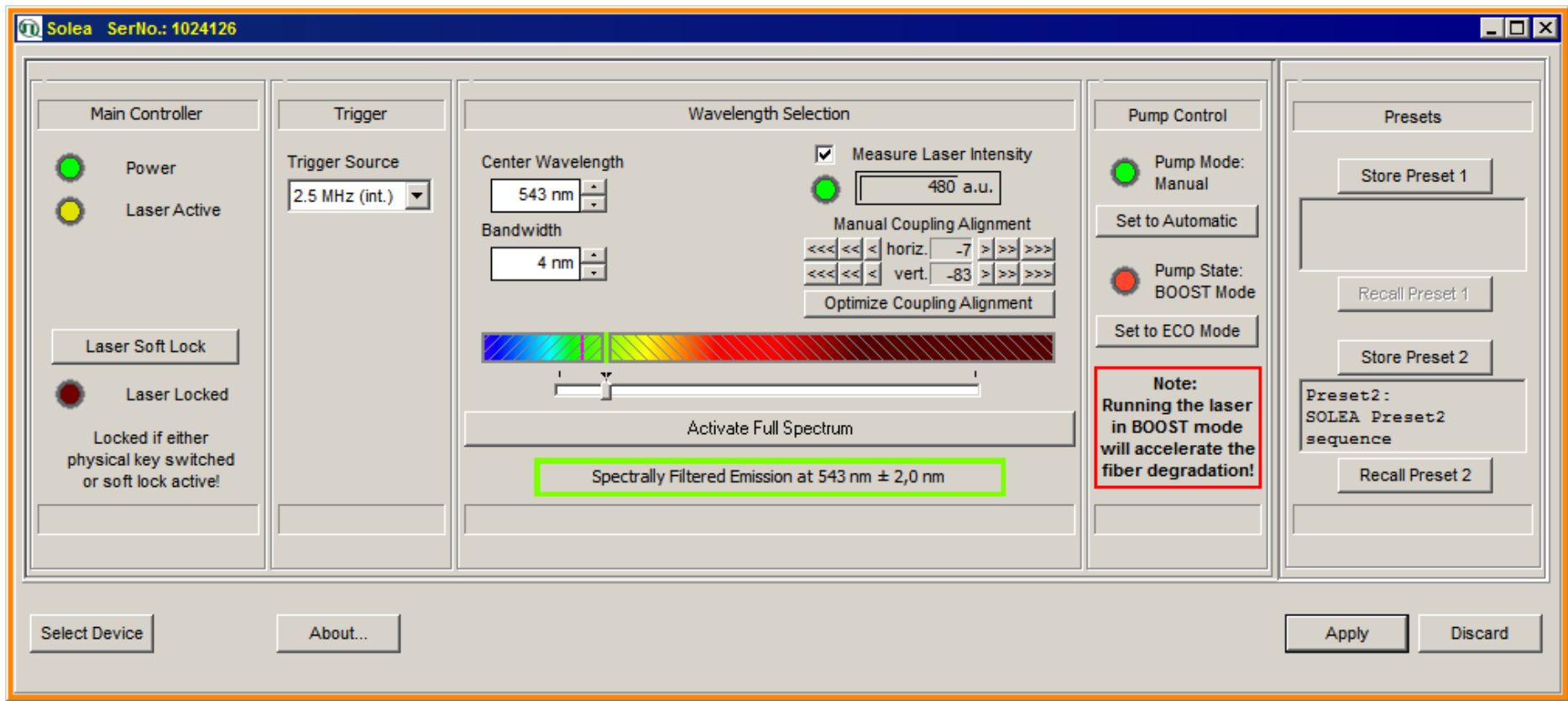
Burst-Pattern Visualization



The visualization can be updated anytime while changing oscillator parameters

A unique software tool for all PicoQuant lasers

PicoQuant Laser Driver also controls the supercontinuum laser Solea and the PPL 400.



GUI Solea