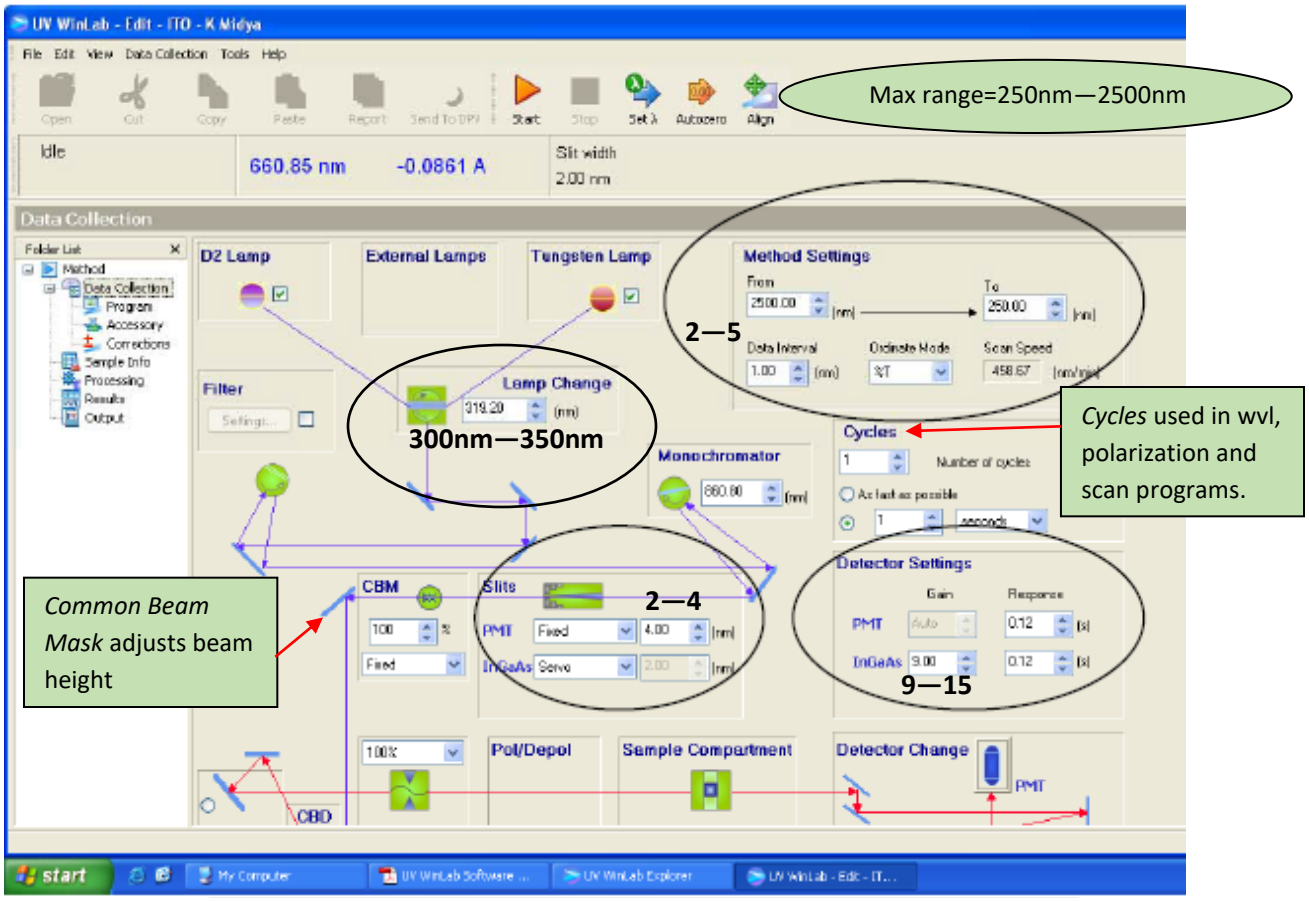
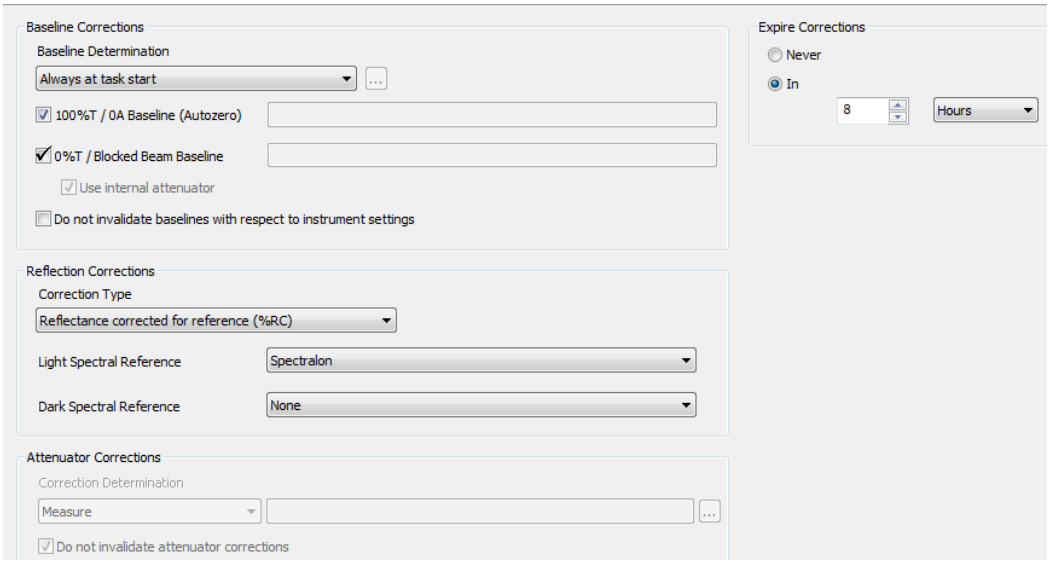
Lambda 950S Operation Guide

1. **Turn on Lambda power 60 minutes prior to your scheduled session.**
2. Remotely log in or start a walk up session on the Kiosk (cell phone or laptop).
3. Place SRS-99 reference on the sample port of the integrating sphere (outside right).
4. Check sample and reference beam paths are clear. Close both compartments and initialize the *UV WinLab Explorer* program  .
5. Open Scan method labeled ***Scan Lambda 950 method dated 09-05-2019.***
6. Allow 3 minutes for initialization.

Do not open compartments until initialization is complete!

7. Select *Data Collection* located along the left menu items.
8. Choose your *Wavelength range*, *Ordinate mode*, *Data Interval* and *Slit*. See snapshot of typical settings on the next page.
9. Select *Corrections* and check the box for both *Baseline Determination, 100% T /0Å Baseline (Autozero)* and *0%T /Blocked Beam Baseline.*
10. If you are measuring %R, Spectralon correction is only valid for 250nm—2500nm range.


Max range=250nm—2500nm
Method Settings
2—5
Lamp Change
300nm—350nm
Cycles
Cycles used in wvl, polarization and scan programs.
Monochromator
Common Beam Mask adjusts beam height
CBM
Slits
2—4
Detector Settings
9—15
Pol/Depol
Sample Compartment
Detector Change
PMT
CBD


Baseline Corrections
Baseline Determination
Always at task start
100%T / 0A Baseline (Autozero)
0%T / Blocked Beam Baseline
Use internal attenuator
Do not invalidate baselines with respect to instrument settings
Expire Corrections
Never
In
8
Hours
Reflection Corrections
Correction Type
Reflectance corrected for reference (%RC)
Light Spectral Reference
Spectralon
Dark Spectral Reference
None
Attenuator Corrections
Correction Determination
Measure
Do not invalidate attenuator corrections

11. Select *Sample Info* at left task menu.

- Enter number of samples to measure and file name for each.

12. Before loading your first sample, press *Start* at the top of the screen.

- When prompted to *Remove sample and press OK to perform a 100% T/0Å correction (Autozero)*, Click *OK* to proceed. *

* If you are using a mask for either %R or %T, make sure it is in place (%R—reference placed behind it) for the Autozero!

13. You will be prompted to load your first sample following the *Autozero*.

- For %R, place the sample directly over the port on the outside right of the integrating sphere. If using a mask, tape sample to mask.
- For %T, place the sample directly under the clips at the entrance port of the integrating sphere. If using a mask, tape sample to mask being careful not to move mask.

14. Proceed measuring each sample as prompted until you see the message *All samples in the table have been run.*

15. To save your data, select File→Export, click on *Data Export* to select your folder; click and select the type of files (. sp or ASCII) you want to save from the *Data* section

14. You can also select *Send to DPV* (UV Winlab Data Processing and Viewer), located along the top menu options, for further processing and to Export as .csv files.

15. You are responsible for saving your data. Email to yourself or transfer your data using a **virus-free** USB storage device.
16. END your kiosk session remotely.
17. If you are the first user of the day, leave the unit power ON. If it is after 3:00 PM, turn the instrument power OFF. Close all programs. **Clean up the area & cuvettes.**

For any instrument issues or maintenance, contact:

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