

inside the PerkinElmer LAMBDA 950/850/650 Series

the highest performing UV/Vis/NIR
and UV/Vis available

1 DEUTERIUM AND TUNGSTEN HALOGEN LIGHT SOURCES
Prealigned and prefocused for quick replacement and maximum uptime.

2 DOUBLE HOLOGRAPHIC GRATING MONOCHROMATORS
For ultra-low stray light performance.

3 COMMON BEAM MASK
Allows precise adjustment of beam height to match samples of different dimensions.

4 COMMON BEAM DEPOLARIZER
Corrects for inherent instrument polarization to allow accurate measurements of birefringent samples (optional).

5 CHOPPER
Switches between sample and reference beam. Four-segment design provides individual blank readings for sample and reference, increasing measurement accuracy.

6 SAMPLE AND REFERENCE BEAM ATTENUATORS
For extremely sensitive and accurate measurements on highly absorbing samples (LAMBDA 950/850 only).

7 LARGEST SAMPLE COMPARTMENT IN THE INDUSTRY
Allows easy access to a wide variety of sampling accessories and sample types.

8 HIGH-SENSITIVITY PHOTOMULTIPLIER AND PELTIER-CONTROLLED PbS DETECTORS
Provides full range UV/Vis/NIR coverage from 175 to 3,300 nm (LAMBDA 950 only).

9 SECOND SAMPLING AREA
Houses a range of snap-in sampling modules including transmission optics (shown), 60 mm and 150 mm integrating spheres and the Universal Reflectance Accessory (URA) for high-precision absolute reflectance measurements.

Another PerkinElmer exclusive

All three of the LAMBDA™ Series instruments feature unmatched polarization measurement capabilities to match your analytical needs.

- Common beam depolarizer corrects for instrument bias.
- Automated polarizer/depolarizer drive in the large sample compartment provides further depolarization or allows study of oriented samples with polarized light.
- Compatible with transmission and reflectance measurements.