DALP, AutoMDS, AutoPrep HPLC/UHPLC/SFC/CCC/SMB/PAT Spectral Deconvolution

<u>DALP</u>: Digital Advanced Laser Polarimeters at any scale
<u>AutoMDS</u> and <u>AutoPrep</u>: Software, Modules, and Support

Eluent Mixers, Column Selectors, Injector/Collectors at any scale
<u>AutoSD</u>: Real-Time <u>Spectral Deconvolution</u> for composition monitoring
Installations, Support, Fiber Spectrometers, Purification Services

DALP: Digital Advanced Laser Polarimeter

New All-Digital electronics and processing algorithms remove effects of Laser power variations to reduce noise and improve performance noticeably.

New DALP App allows easy adjustment of settings.

Measures the real-time rotation of a plane-polarized 635 nanometer laser beam as samples pass through a flow cell to microdegree accuracy/resolution



Certifications: CE, UL, CSA, TUV

Lifetime: 10 years @ 24/7, including laser

Power: 100 - 240 VAC @ 50/60 Hz, 20 watts

Size (WHL): 10/25.4 x 5.5/14 x 16/41 in/cm

Weight: 22/10 lbs/kg
Wavelength: 635 nanometers
Sensitivity: 1 microdegrees

Output Scale: 200,000 microDegrees / Volt

DALP advantages over other Detectors:

- Long lifetime 10 years @ 24/7 operation
- Fully automatic no manual adjustments or stop flow scans
- Real Time Data multiple scans not required
- Large linear dynamic range > 100,000
- No absorbance anomalies or interferences
- Consistent assignment (+/-) for enantiomers
- No chromophore required
- Two internally generated calibration peaks
- Low power < 20 watts at wall plug

DALP is excellent for:

- Confirming and identifying enantiomeric separations
- Controlling fraction and peak collection
- HPLC, UHPLC, SFC, CCC, SMB, and PAT applications from Analytical to Prep to Process scale

