

The Olis[®] DSM 20 CD Spectrophotometer

The Hummingbird of CDs: Tiny, Fast, Precise



The newest Olis DSM CD spectrophotometer uses 80% less nitrogen than the big CDs!



With a spectral range of 170-700 nm, the tiny* Olis DSM 20 CD covers the entire protein secondary structure region, the tertiary region, and the visible range for work with metalloproteins and other biomolecules with chiral activity above 450 nm.

Like all Olis DSM CDs, this little hummingbird enjoys noise reduction by means of dual beam detection. And, without a lock-in amplifier or calibration, the Olis DSM 20 is another Olis CD which cannot acquire an incorrect answer!

UV optimized optics for brilliant light throughput in the CD protein region are standard. Ports for changing slit widths and adding a second order rejection filter allow this new DeSa subtractive double grating monochromator to be fitted with NIR optics, too. Large InGaAs detectors extend performance to 1650 nm!

*40 cm x 90 cm!

The all-new Olis DSM 20 CD replaces the Olis DSM 10 CD, effective August 2005

The complete workstation can be used on a bench barely a meter long!



Computer, LCD, electronics, power supply, and lamp cooling box can be oriented as shown here, spanning a comfortable 1.5 meter range, or these components can be mounted above or below bench level.

Optimize for your range(s)!

Secondary structure determination studies will be done with the first grating pair. Optimizing the CD for other ranges is done with a grating exchange and, as necessary, a detector exchange.

Gratings for the Circular Dichroism Monochromator

| Grooves per nm | Disp ¹ (nm/mm) | λ Range (nm) | Blaze (nm) | F/# | Size (nm) | λ Resolution (0.12 mm slit) | λ Resolution (0.5 mm slit) |
|----------------|---------------------------|-----------------------------|------------|-----|-----------|-------------------------------------|------------------------------------|
| 1200 | 4 | 170-700 MgF ² | 250 | 4.2 | 40x45 | 0.5 nm | 2 nm |
| 1200 | 4 | 250-800 | 350 | 4.2 | 40x45 | 0.5 nm | 2 nm |
| 1200 | 4 | 300-800 | 450 | 4.2 | 40x45 | 0.5 nm | 2 nm |
| 800 | 6 | 350-1200 | 600 | 4.2 | 40x45 | 0.7 nm | 3 nm |
| 600 | 8 | 400-1650 | 750 | 4.2 | 40x45 | 1.0 nm | 4 nm |



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