

TECHNICAL DATASHEET

CS/SF Stopped-Flow Accessory for the Chirascan™ Series

.....



Combining our world leading expertise in circular dichroism and stopped-flow technologies, all Chirascan™ models can be configured with either single or sequential mixing CD-SF options, with absorbance and fluorescence detection available in conjunction with CD. Moving between steady state and stopped-flow with Chirascan™ is fast and simple, maximising productivity for your research.



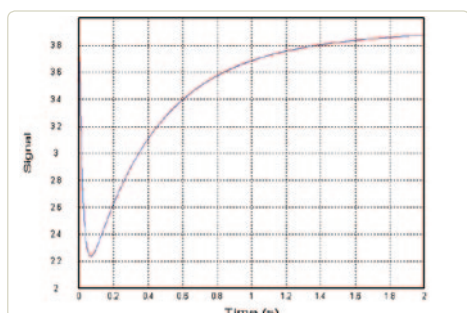
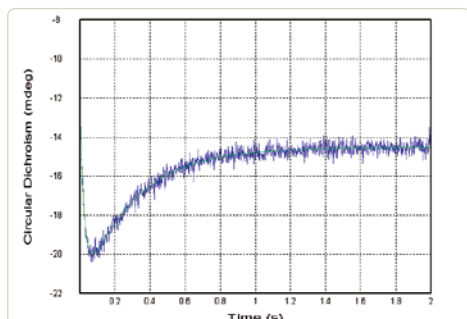
- ▶ Outstanding sensitivity, direct interface with Chirascan™ and Chirascan™-plus spectrometry systems
- ▶ Bench-top mounted rapid and straightforward reconfiguration
- ▶ Analysis of single and multiple wavelength kinetics
- ▶ Options include sequential mixing, quench-flow, fluorescence applications
- ▶ Low dead time with low volume requirements

TECHNICAL DATASHEET

CS/SF Stopped-flow Accessory Technical Specifications

SF cell volume	20 μ L
Pathlength (CD & absorbance)	10mm & 2mm
Pathlength (fluorescence)	5.5mm & 1.5mm
Dead time	1.2ms (1:1 mixing) 1.7ms (10:1 mixing)
Drive volume	40 μ L per syringe (1:1 mixing) 240 μ L total (10:1 mixing)
Mixing options	Single or sequential
Reconfiguration time	Approximately 10 minutes
Dimensions, W x H x D	31 x 34 x 38cm
Weight	22kgs
Operating system	Windows 7 OS (USB communications)

Note: Please refer to the Chirascan™ or Chirascan™-plus datasheet for the CD spectrometer specifications



Refolding of lysozyme at 225nm; CD (top) and fluorescence.
2.2mg/mL in 6M GuHCl rapidly mixed with buffer in 10:1 mix-ratio

Wholly designed by Applied Photophysics Ltd, the Chirascan™ stopped-flow unit is simple to configure and gives extremely high sensitivity with dead times equivalent to our market leading dedicated stopped-flow spectrometer. Sample consumption using CS/SF can be up to 50x less than other CD stopped flow instruments. CS/SF is compatible with both Chirascan™ and Chirascan™-plus spectrometers for unsurpassed data quality.

Typical applications

- ▶ Kinetics of protein folding/unfolding
- ▶ Kinetics of protein interaction and binding
- ▶ Reaction kinetics in organic and inorganic chemistry

And many more