

## Accessories

### Cuvette Holder

Fixed 10mm pathlength holders are offered to allow the use of standard laboratory cuvettes for measuring the absorption of liquid samples.

A variable pathlength holder provides for pathlengths from 10 to 100mm.

**Astra CH1** Cuvette holder, 1cm pathlength, complete with collimating lenses



**Astra FC1** Flowcell 1cm pathlength, constructed in Peek with collimating lenses and demountable windows wavelength range from 230 to 2,200nm

**Astra FC4** Flowcell 4cm pathlength, constructed in Peek with collimating lenses and demountable windows wavelength range from 230 to 2,200nm

### Colour Measurement

AstraNet offers a six-around-one reflectance probe for small sample areas, this accessory can be used to measure the colour of solid objects over the wavelength range 400-700nm.

### Flow Cell

Offering a serious alternative to the immersion probe, flowcells are especially useful in situations where the sample may contain particulates.

AstraNet offers a range of both low and high pressure flowcells, with pathlengths from 1 to 100mm, measurements are not affected by turbulent flow.

The flowcells are supplied with integrated collimating lenses and windows and connection to the input and output fibres is via simple SMA 905 connectors.





### **Dip probe**

Immersion probes allow direct absorption measurements of liquid samples by simply immersing the probe tip into a suitable vessel containing the sample. Optical pathlengths from 2 to 40mm are available as interchangeable screw-in tips. Reactions can be monitored directly in a vessel thanks to the very fast scanning speeds of the spectrometer. Additionally, immersion probes can be installed directly into sample streams, such as steel pipes in industrial plants, for monitoring and control purposes.

### **0/45 measurement head**

AstraNet offers a unique probe, a larger 0/45 geometry reflectance accessory. This accessory is particularly useful for measuring the reflectance spectra of powders. In the visible region of the spectrum, these accessories are used to measure the colour of solid objects over the wavelength range 400-700nm.



AstraNet offers calibrated and uncalibrated White reflectance standards.

### **Cosine corrected diffuser**



### **Astra Cosine corrected diffuser**

The AstraNet cosine corrected diffusing disk accessory allows the instrument to be used as a Spectroradiometer. Spectral distribution of light sources are measured in real-time.