

**ADVANCED SPECTROMETER**

A versatile instrument for both student and more advanced work. The 177mm circle is fixed, the table and telescope movements are completely independent of each other. Both movements can be read to 30 seconds of arc by means of a double ended vernier. The telescope has a x15 Ramsden eyepiece and glass crossline graticule. The collimator is fitted with a unilaterally adjustable slit 6mm long. Both of the optical units have rack and pinion focusing and are fitted with 178mm focus achromatic objectives, 32mm clear aperture. Supplied in a hardwood case. Complete with a dense flint prism, prism clamp, diffraction grating holder, watchmaker's eyeglass and tommy bar for adjusting optical axis.

**P35-3500** Advanced Spectrometer

**Accessories for Advanced Spectrometer**

**P35-3650** Crown Glass Prism, 32mm aperture at minimum deviation

**P35-3660** Dense Flint Glass Prism, 32mm aperture at minimum deviation

**P35-3680** Double Sided Mirror, in metal mount for use with diffraction grating holder

**P35-3700** Polaroid Polariser or Analyser, 25mm aperture, mounted for use with either telescope or collimator of advanced spectrometer

**P35-3750** Polariser or Analyser, as above, but having a rotary movement with fine adjustment and a divided circle 89mm diameter vernier reading to  $0.1^\circ$

**P35-3800** Quarter Wave Plate, for sodium light 20mm clear aperture in graduated rotary mount reading to  $5^\circ$  on a metal stage suitable for mounting in diffraction grating holder.

**SPECTROMETER & COLORIMETER**

This instrument allows the student to perform real flame and atomic absorption spectrometry in the classroom. A compact system of selectable calibrated colour filters and a light sensor with computer interface and signal amplification makes this instrument self contained. For AA work, a suitable sodium light source is required (see **P38-3900**). A student bench meter is provided so that light intensity measurements can be taken and graphs plotted manually. Supplied with comprehensive instruction manual which provides explanation and training on colorimetry and flame, or AA, spectrometry. The complete kit includes burner for LP or natural gas, nebulizer with air controller, regulated light source, set of cuvettes, meter scaled in % transmission, 10 x calibrated filters selected by knob, interface device, set of cables, student graphing software for a PC and full instruction manual.

**P35-3900** Spectrometer and Colorimeter

**SODIUM LAMP**

For use with polarimeters, refractometer, spectrometer, etc., 35W sodium lamp in metal shield mounted on rod, with vertical adjustment. Free standing; for a.c. mains supplies.

**P38-3900** Sodium Lamp



P35-3500



P35-3750



P35-3800



P35-3900



P38-3900