

PINHOLE CAMERA KIT

A $\frac{1}{4}$ class kit comprises equipment for eight pupils to work individually: 8 camera boxes in dismantled form, 150 x 100 x 100mm; 50 sheets of black paper, 200 x 250mm; one 60W carbon filament lamp; one lampholder mounted on a base with cable; one packet of pins.

P33-0500 Pinhole Camera Kit

Spares Parts and Accessories

P33-0510 Dismantled camera boxes, pack of 8

P33-0520 Black paper, 200 x 250mm pack of 50

60W carbon filament lamp - see **P56-9730**

Lens, plano-convex +70 - see **P32-1860**

PINHOLE AND LENS CAMERA

A robust and versatile camera for classroom experimental use. The camera body is self-drawing. The action of the 'stop' can be easily demonstrated. Comprises a cylindrical camera body with a lens and screen tube, and a collimator tube. Supplied complete with three pinhole screens (stops), one opaque disc, one translucent screen and a 50mm diameter convex lens, but without photographic paper.

P33-0600 Pinhole and Lens Camera

POLARIMETER

A quantitative instrument designed to accommodate a standard 75 x 26mm glass tube. A light source at the lower end passes light through a polaroid polariser, vertically through the solution in the cylinder and then through the rotatable analyser, whose position can be read to $\frac{1}{2}^\circ$. Complete with low voltage light source and reflector unit for monochromatic sources. Overall size: 190 x 280mm. Supplied without Nessler cylinder. The apparatus is constructed to allow a solenoid (see **P34-1200**) to be placed around the cylinder so that the Faraday effect can be observed.

P34-1100 Polarimeter

POLARIMETER TUBE

Glass tube, approx 75 x 26mm, supplied as pack of 10.

P34-1102 Polarimeter Tube, pk/10

FARADAY EFFECT COIL

Replaces the cylinder in the polarimeter (**P34-1100**). When the polariser and analyser are in the extinction position, and a strong magnetic field is applied to particular types of solutions, some light will pass through, showing the electromagnetic nature of light. This coil, wound for 12V at 5A, supplies such a field.

P34-1200 Faraday Effect Coil

POLARISCOPE

A compact apparatus showing many of the properties and applications of polarised light. A fixed disc of polaroid 30mm in diameter is mounted on an adjustable platform. A similar disc, rotatable over 180° against a scale, is positioned above the first platform. With M.E.S. bulb and 45° mirror light sources, and with diffusing screen and narrow band yellow filters. Small beakers with optically active liquids can be placed between the two polaroid screens and optical rotation measured, or optically active solids and crystals observed. With experimental suggestions.

P34-1500 Polariscopes



P33-0500



P33-0600



P34-1100



P34-1200



P34-1500