



### Photometer Bunsen's grease spot (ELP.106.164)

A waxed paper screen with a wax-free central spot 16mm dia mounted in a black metal frame 100x75mm with central aperture of 51mm. The frame is mounted on a 6mm rod giving an optical centre height of 80mm.



### Photometer Bunsen's grease spot (ELP.106.165)

Grease spot disc held between two wooden screens with 45mm dia aperture, mounted with 2 inclined plane mirror approx. 90mm square.



### Photometer, Jolly's Block (ELP.106.166)

Block comprising with two pieces of polythene approximately 25mm square, 10mm thick, separates by tin foil, on wood stand behind aperture 12mm diameter.



### Newton's Colour Disc (ELP.106.167)

For demonstrating that white light may be composed from all the spectral colours, by rotation of multi-coloured disc. Comprising of a multi-coloured metal disc and driven by belt with the help of driving wheel fitted with a individually packed.

- .01 With coloured disc. 200mm dia, & mounted on Laminated wooden base, for schools.
- .02 With coloured disc. 200mm dia, & mounted on light metal base, for schools.



### Newton's Colour Disc (ELP.106.168)

As per **Cat. No. ELP.106.167** but with metal disc 200mm. mounted on metal stand and drive by belt with the help of driving wheel fitted with handle, can be clamped on table.

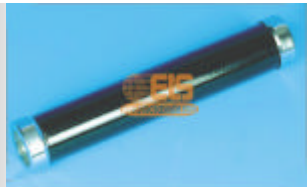


### Newton's Colour Disc Demonstrator (ELP.106.169)

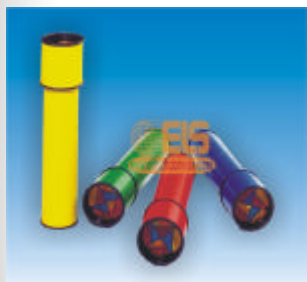
To show the colors white light is composed of. Simple Version.

### Kaledioscope (ELP.106.170)

Made of brass and nickel - plated.



**Kaledioscope** (ELP.106.171)  
Made of plastic and best quality.



**Periscope** (ELP.106.172)  
Made of teakwood and nicely polished.



**Periscope** (ELP.106.173)  
Made of unbreakable Plastic.



**Pin Hole Camera** (ELP.106.174)  
To illustrate images produced by small apertures. comprising a polished wooden box with a ground glass screen at one end and a hole at the other.



**Pin Hole Camera Kit** (ELP.106.175)  
The Kit consists of following items :-  
8 cardboard boxes 150 x 100 x 100 mm with hole screw and lid  
50 sheets of black paper  
1 200 W Lamp  
1 Mounted Lamp holder with flex  
1 Packet of Pins



**Direct Vision Spectroscope** (ELP.106.176)  
for the rapid examination of spectral composition of white light, metal tube with draw out focussing and an adjustable slit fitted with achromatic objective glass and 3 element prisms. Complete in a wooden or velvet lined case. Wavelength 10 to 50

**Optical disc magnetic** (ELP.106.200)

500 mm. dia. steel disc is faced with matt white painted, it is marked every 5°, with extended lines every 10° and 30°. Crosslines mark the centre. The disc is mounted on a 25 mm. dia. steel tubes 390 mm. long which fits into a stable base with levelling screws. The disc rotates about its centre and can be locked in and desired position. The lamp house holds a 12V, 24 watts axial filament lamp. This lamp house is covered by a rotatable outer shield which beams of varying width can be as well as narrow single, double & triple beams. Attached to the lamphouse is and adjustable lens carrier with lens to provide diverging, parallel & converging light beams. The lamphouse is mounted on a rotatable arm that can be locked in any position. a sliding weight on the arm acts as a counterpoise.



All optical elements are supplied with magnets attached so that they can be attached to any place on the disc. The disc is supplied complete with the accessories listed below :

- 1 only lamphouse with lamp
- 2 only plane mirrors
- 1 only cylinder mirror
- 1 only semicircular block
- 1 only biconvex lens
- 1 only biconcave lens
- 1 only trapezoidal block

#### Spare Lamp for Optical disc (ELP.106.201)

For use with Cat. no. ELP.106.200 with 12 volt 24 watt.

#### Optical disc Junior (ELP.106.202)

Comprising a 290 mm diam. metal disc, graduated 0-90° in each quadrant, supported at its centre in a vertical plane on a metal stand such that the disc can be rotated as desired. With a clip to clamp the optical accessories to the disc.

#### Light Guide Demonstrator (ELP.106.203)

For showing how the phenomenon of total internal reflection may be used to confine light within a guide or fibre, thus leading to an appreciation of the principles of optical communications.

Comprising an acrylic bar formed into a shallow 'S' shape. Whilst the shape of the bar prevents the direct passage of a light ray, if such a ray (from a light box or laser) is introduced into one end, it can be seen to be reflected several times, from the internal surfaces of the bar, to emerge from the other end. The lower surface of the bar is painted white to aid visibility of the path of the light ray.

#### Hand Held Refractometer (ELP.106.222)

A pocket refractometer designed on the principle of total reflection for measuring the refractive index . The built in ocular scale gives direct reading for percentage of Sugar density. Packed in a beautiful velvet box.

- .01 Sugar scale 0-32% in division of 0.2 %
- .02 Sugar scale 0-50% in division of 0.2%
- .03 Sugar scale 58-92 % in division of 0.2%3
- .04 Sugar scale 28-62% in division of 0.2% combined with nD 1.377 to 1.440 for NaCl reading.

#### Polarimeter Student (ELP.106.223)

For the measurement of angle of rotation of optically active substance in solution. The circular head is attached near the analyser and vernier movement on the scale enables the reading of optical rotation accurate upto the accuracy of 0.1°, Soleil's Bi-quartz or Laurents half shaded device which makes the instrument accurate and simple for use with white light (day light ) or sodium light. The polarimeter tubes are made from corning glass with metal fittings at both ends., The tube



end covers with glass round disc., optically true with rubber washers to make it leak proof. Complete with a set of two polarimeter tubes (100 mm. And 200 mm.), in case.

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### Laboratory Polarimeter (ELP.106.224)

Sensitive rotating Laurant Half Shade device workable on sodium light source. Circular Scale 0-360° combined with sugar scale -0 to 30°s and +0 to 130° s mounted in dust proof metal housing. Vernier least count 0.05°. One piece Aluminium casted rigid body. Analyser & Polariser made of Polaroid. Polarimeter Tubes (Bubble type) of size 100 mm & 200mm made of thick wall Borosilicate glass. Nicely packed in Plywood box with instruction manual, dust cover & cleaning cloth.

### Polarimeter tube (ELP.106.225)

Spare tube to be used with polarimeter as per **cat. No. ELP.106.222**

- .01 Straight 100 mm.
- .02 Straight 200 mm.
- .03 With one bulb in centre, 100 mm
- .04 With one bulb in centre, 200 mm
- .05 With centre filling, 100 mm.
- .06 With centre filling, 200 mm.

### Polaroid (ELP.106.226)

A pair of 50 mm. diameter polaroid, mounted in metal frame, black matt finish in velvet lined box.

### Half Wave Plate (ELP.106.227)

Mounted in metal frame, 50 mm. Diameter, Individually packed.

### Quarter Wave Plate (ELP.106.228)

Mounted in metal frame, 50 mm. Diameter. Individually packed.

### Physical Optics Kit (ELP.106.252)

Consists of:

- 8 Plano-convex lens fl 500mm,
- 1 Plano-convex lens of fl 150mm
- 12 Lens holders
- 4 Plates of different apertures, 32, 22, 11 & 5.5mm diam. resp.
- 3 Plates with small holes in circles of 29, 22, 10 mm diam.
- 1 Plate with circular aperture of 5.5 mm diam.
- 4 Multi-aperture plates
- 4 Stop plates
- 2 Slide holders
- 6 Translucent screens,
- 10 White cards
- 4 Eye-pieces

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# Effective Laboratory Supplies



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# PHYSICS



- 15 each Red, green and blue filters
- 40 Black cards with holes
- 40 Razor blades
- 120 Rubber bands
- 1 Piece black chiffon for diffraction effects

### Compact Light Source (ELP.106.253)

A 12V 100W lamp in ventilated housing. Apertures are provided to enable lamp to be used as a horizontal 'line' source or a powerful pointer source. Mounted on a rod for being supported on a laboratory stand.



### Light Meter (ELP.106.266)

LX - 100 : 2,000 Lux, 20,000 Lux. Sensor meet C.I.E. Photopic spectrum. Economical cost, professional quality, Separate probe.



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