

# Accessories – Spectral Sources

## For use with Bellingham+Stanley Refractometers and Polarimeters

Measurements of refractive index and optical rotation are made using light of a specific wavelength and for this purpose monochromatic light sources are required. For many applications the mean sodium D line (589.3nm) is the standard source and, if filtered white light is not suitable, a Sodium Lamp Outfit is required.

A Spectral Lamp Outfit with the appropriate lamp fitted can be used to provide a number of alternative light sources.

### Sodium Lamp Outfit

The horizontally mounted sodium discharge tube is housed in and shielded by a metal enclosure which slides on a vertical post for height adjustment. The post can either be attached to the transformer casing (as illustrated – instrument on left) or to a special bracket for mounting on the base of a Model D Polarimeter. The lamp has a working life in excess of 3000 hours.

### Spectral Lamp Outfit

The Spectral Lamp Outfit (as illustrated – instrument on right) can be used in conjunction with a number of interchangeable lamps to provide a selection of spectral sources: sodium, mercury, cadmium and helium. The lamps are mounted cap down in a metal housing/shield which slides on a vertical post for height adjustment. The supporting post is fixed to the transformer housing.

Interference Filters may be used to define specific spectral lines emitted from spectral lamps when used with Abbe Refractometers. Details are available on request.

### Sodium Lamp Outfit (35 watt)

35w Sodium Lamp Outfit	230V ~ ±10%, 50/60Hz	Free Standing Model D base	Code 59-01 Code 59-03
35w Sodium Lamp Outfit	110V ~ ±10%, 50/60Hz	Free Standing Model D base	Code 59-06 Code 59-08
Spare Lamp for Sodium Lamp Outfit			Code 59-50

### Spectral Lamp Outfit Free standing units, excluding lamp:

230V ~ ±10%, 50/60Hz	Code 59-20
110V ~ ±10%, 50/60Hz	Code 59-25

### Interchangeable Lamps for Spectral Lamp Outfit

Sodium	Code 59-31	Helium	Code 59-39
Mercury	Code 59-33	Spare Lamp Housing and Cable	Code 59-156
Cadmium	Code 59-37		

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**CE** These products comply with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC



Bellingham + Stanley Ltd operates a Quality Management System complying with BS EN ISO 9001:2000 (Certificate No. LRQ 0963791).

