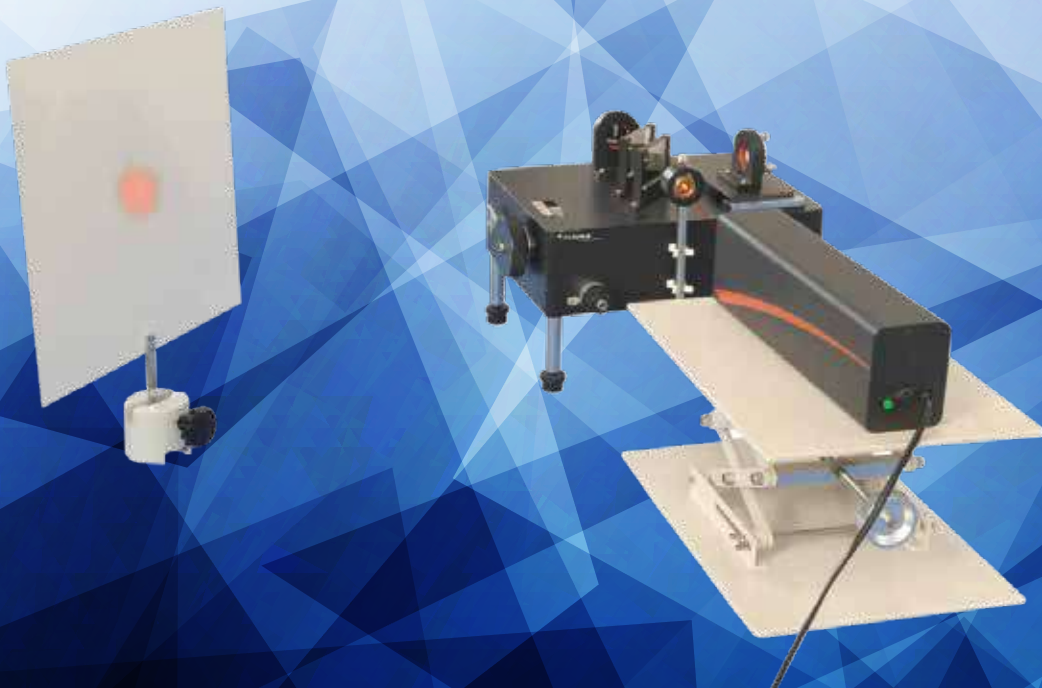


INTERFEROMETER

3000 Series



Fringes of Michelson Interferometer with He-Ne laser.

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▶▶ **Principle and Working :**

When a coherent light beam enters into beam splitter, it is divided into two parts, thus two beams travel in different directions, are reflected into each other through two mirrors forming interference patterns when they are combined and superimposed. In the present setup, measuring the wavelength of sodium light or He-Ne laser, using an equation: $\lambda = 2.D/n$

where, D is the total displacement whereas n is the number of intensity maxima counted.

▶▶ **Contents:**

Item Name	SK002	SK025
Interferometer	1	1
Sodium light source	1	
Telescope	1	
Pin hole	1	
Ground glass	1	
He-Ne laser	1	
Microscope objective with holder		1
Object screen		1
Lab jack		1
Cylindrical base		1
Holder	1	

Interferometer ATL-933



SPECIFICATIONS	
Base dimension	290x212x168mm (LxWxH)
Distance (M2 & BS)	100mm
Beam splitter	50 x 38 x 7mm (LxWxT)
Compensating plate	50 x 38 x 7mm (LxWxT)
Mirrors M1 and M2	30 mm dia, thickness 10mm
R:T : 50	50
Flatness of beam splitter	$\lambda/8$
Least count	0.01mm (coarse adjustment knob)
Least count	0.0001mm (fine adjustment knob)

Sodium Light Source ATL-930



SPECIFICATIONS	
Starting Voltage	470 Volts
Input Voltage	220V, 50Hz
Lamp House	300x 85mm (L x dia.)
Aperture dia.	25mm
Scope of Supply	Complete with housing for sodium vapor lamp, transformer, Base, Mounting rod, Bosshead and Sodium Bulb.

He-Ne Laser ATL-3891



SPECIFICATIONS	
Wavelength	632.8nm
Output power	> 2mW
Working time	> 8 hrs.
Working voltage	220V AC, 50Hz
Input power	< 2 W
Dimension(LxBxH)	300x62x82mm
Weight	1.5 kg (approx.)

Lab Jack ATL-978



SPECIFICATIONS	
Plate Material	Aluminium
Top Plate Size	32 x 22cm
Static Loading	20Kg
Vertical Elevation	70 to 270mm

Microscope Objective In Holder ATL-556



SPECIFICATIONS	
Objective	10X
Rod diameter	10mm
Holder diameter	25mm

Object Screen ATL-1734

SPECIFICATIONS	
Material	Translucent, acrylic
Size	300 x 300mm
Rod	10 mm diameter

Cylindrical Base ATL-110



SPECIFICATIONS	
Material	Ferrous
Mount	Rod 10-14mm dia
	Flat object up to 10mm
Groove	Slide object, 30x10mm (LxW)

▶▶ **Regulatory compliances**



▶▶ **Corporate Social Responsibility**

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