

**Product Name :**  
Laws of Radiant Heat Transfer**Product Code :**  
ALABS-A143-012**Description :**

Laws of Radiant Heat Transfer

**Technical Specification :**

Laws of Radiant Heat Transfer

An accessory designed to experimentally investigate the laws of radiant heat transfer and radiant heat exchange. The application of the laws to both heat and light radiation are demonstrated using a radiant heat source and light source. Two appropriate detectors, light filters, target plates of different Emissivity and aperture plates each mounted on suitable carriages on a parallel graduated track, and allow simple and rapid experimental procedures.

The electrically heated matt black radiant heat source has an effective diameter of 100mm. and is fitted with an integral thermocouple to record its surface temperature.

A radiometer detects the heat flux directly in  $W/m^2$  from either the source, a combination of four plates of different Emissivity (two matt black, one grey and one polished) or between a slot formed by two moveable cork faced plates. Each plate of different Emissivity incorporates a surface thermocouple for temperature measurement.

The diffuse light source comprises a low voltage filament lamp within a rotatable enclosure ( $180^\circ$ ) that can be located on the parallel track in place of the heat source.

A lightmeter recording directly in lux may be located in place of the radiometer in order to measure incident intensity.

Supplied filter plates of varying opacity and thickness can also be mounted on the track to demonstrate the laws of light absorption.



## Equipments Exporters

**Website:** [www.equipmentsexporters.com](http://www.equipmentsexporters.com), **Email:** [sales@equipmentsexporters.com](mailto:sales@equipmentsexporters.com)

**Address:** 75, Lajpat Nagar-IV, New Delhi-110024 **Phone:** +91-9311469084