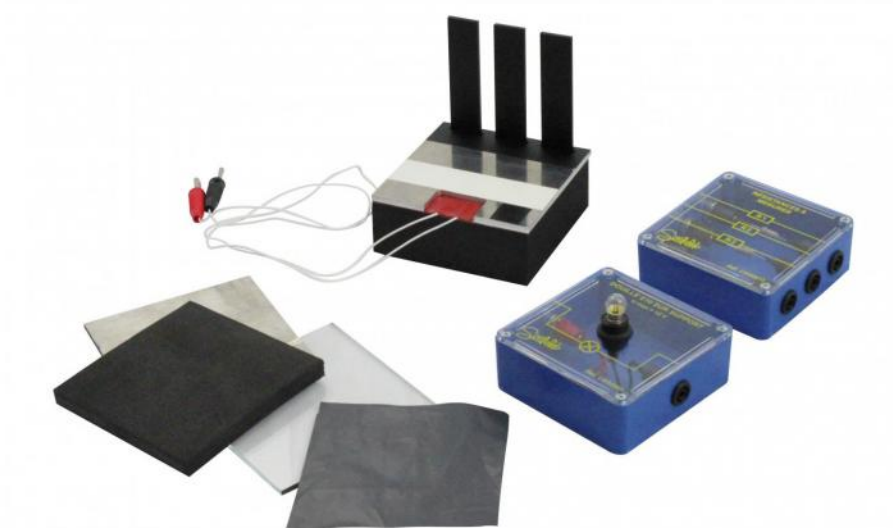


INFRARED THERMOGRAPHY: BEGINNER'S KIT

References : KITHERMO1, KITHERMO2



Fun and affordable approach to infrared radiation Turnkey educational device

This kit is the perfect tool to learn about infrared thermography.

Associated with a thermal camera (see page opposite), it allows the user to tackle the following topics:

- Introduction to infrared thermography (DVD media).
- Introduction to the main thermal phenomena (reflection, emission, radiation, ...).
- Emissivity measurement of different coatings.
- Study of heat conduction (fin effect).
- Study of electrical components in operation.

The kit consists of the following elements:

- Heating system with fins.
This heating system is composed of several materials to perform emissivity measurements. A fin system (steel, aluminium, PVC) also allows studies of heat conductivity. This system requires the use of a 12 V power supply (see ref. AL841C).
- Samples of different materials.

4 plates of different materials are used to illustrate thermal properties (diffusivity, effusivity, conductivity, thermal capacity).

For example, a material may be opaque in visible light and transparent in the infrared, or vice versa

- Housings for resistors and bulbs
Using the infrared camera, it will be possible to observe live electrical components, in order to study their heating. Illustration of the Joule effect.
- A complete instructional guide (teacher's and student's manual).

All these elements are offered in a storage and protection case (optional).