



LASER RECEIVER – for modulated lasers

Cat: HL1977-002 modulated laser beam receiver

DESCRIPTION:

This product is used to receive any Laser light beam that has been modulated by a signal.

‘Modulation’ means that the Laser beam is being switched on and off or is being changed in intensity very rapidly by another signal superimposed upon it. The rapid changes in intensity may not be evident to the naked eye but can easily be detected by an electronic receiver. The principles of modulation are used for transmitting and receiving radio and television signals all over the world.

HL1977-002 modulated Laser receiver



Physical size: 145x100x90 LxWxH

Weight: 0.7 kg

LASER MODULATION:

A He/Ne Laser or Laser Diode source can be modulated by an external signal or microphone and the beam of light can be detected by the receiver. When detected, the signal causing the modulation can be recovered and can be either displayed to an oscilloscope or heard through the integral speaker.

Other Lasers available may be of the solid state type similar to those used in Compact Disc players. If these Lasers are modulated, they too can be detected by this Laser Receiver.

**OPERATION:**

The front of the Laser receiver has a large disc that can be rotated to a limited degree. Notice the small shiny receiving element towards the edge of the disc. The rotation of this disc is a convenient method of vertically aligning the receiving device to a Laser beam and eliminates the need to find thin books and other items to slightly change the height of the receiver.

On the rear face of the receiver, a small drawer is designed to accept a 9V battery (type #216 or similar) and a 3.5mm jack socket is provided to accept a low level (10 to 100 millivolts) external signal from a microphone or tape recorder. The knob is a combined on/off switch and volume control

Another 3.5mm jack socket is provided for feeding the signal to another amplifier or to an oscilloscope for viewing. The unit is provided with a cable for connecting the output socket to an oscilloscope.

If the battery is flat, the unit can be powered from a 9V.DC. mains Plug Pak. The Plug Pak socket uses a positive (+ve) centre pin.

Designed and manufactured in Australia