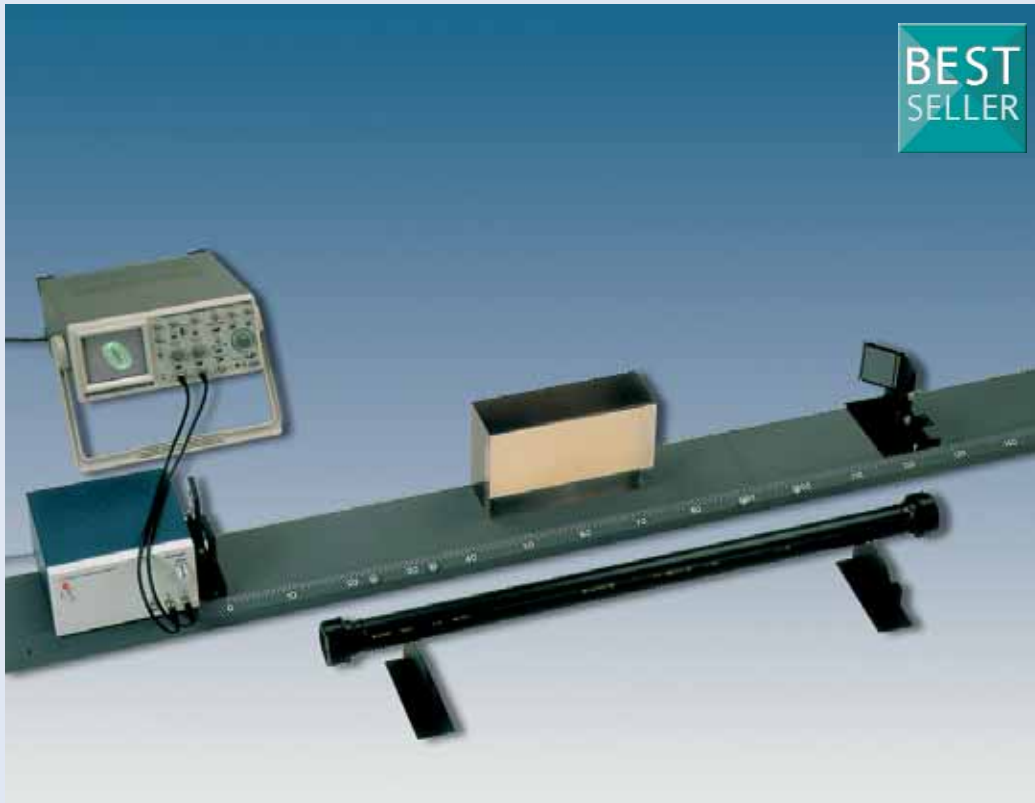


Measuring the velocity of light 2.1.01-00



- What you can learn about ...
- Refractive index
 - Wavelength
 - Frequency
 - Phase
 - Modulation
 - Electric field constant
 - Magnetic field constant

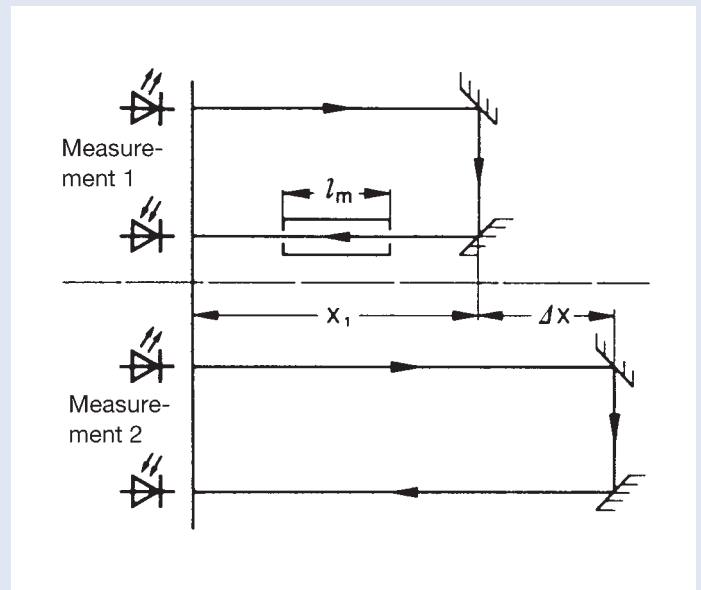
Principle:

The intensity of the light is modulated and the phase relationship of the transmitter and receiver signal compared. The velocity of light is calculated from the relationship between the changes in the phase and the light path.

What you need:

Light velocity measuring apparatus	11224.93	1
Screened cable, BNC, $l = 1500$ mm	07542.12	2
Oscilloscope 30 MHz, 2 channels	11459.95	1
Block, synthetic resin	06870.00	1

Complete Equipment Set, Manual on CD-ROM included
 Measuring the velocity of light P2210100



Measuring the velocity of light in other media.

Tasks:

1. To determine the velocity of light in air.
2. To determine the velocity of light in water and synthetic resin and to calculate the refractive indices.