

# INFORMATION TRANSMITTED KILLS

Interferometer  
Holography  
Fourier Optics  
LCD Education Kit  
Fiber Optics  
Laser Education Kit

## SPEED OF LIGHT MEASUREMENT / RECEIVER KIT



For years after lasers were invented they usually were considered only a novelty. People often commented, after seeing a laser beam for the first time, "Pretty. But what's it good for?" This kit makes the mist of your modulated laser to demonstrate functions such as:

- Transmitting /receiving an audio signal
- Speed of light measurement
- B/W video receiver transmission /detection

The principle employed in this kit to measure the speed of light is similar to that used by Newcomb in 1880 and Michelson in 1924. In operation, the laser beam is split into two portions. Your instruction manual contains detailed instructions and diagrams describing equipment set-up, as well as historical journey into efforts to measure the speed of light. This is a great opportunity to learn not only about technology, but also the very human history behind it. Included in the kit are an optical beam splitter, first-surface mirror,

two converging lenses, optics mounts, microphone, electronic control box with 2-channel receiver and 1MHz oscillator, 110VAC-to-DC power adapter, optics table, and step-by-step instruction book. Not included but required for operation are a modulated laser, video camera and monitor, and a dual -channel 40MHz oscilloscope. We will furnish 220 VAC adapters upon request.

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|---|-------------------|
| <b>RECEIVER &amp; POWER ADAPTER</b>             | <b>IF-LSL-SA1</b> |
| <b>RECEIVER, POWER ADAPTER &amp; MICROPHONE</b> | <b>IF-LSL-2</b>   |
| <b>COMPLETE KIT</b>                             | <b>IF-LSL-1</b>   |

## LASER VIDEO KIT



Industrial Fiber Optics manufactures laser receivers specially designed to decode information transmitted via laser beams, then convert that information to electrical or audible forms. With so many lasers on the market today, determining which

receiver you should purchase for a particular application can be frustrating. For your convenience we created the following table to aid in your selection. (The receiver in the photo is the same size as the IF-VR or IF-VR2.)

APPLICATION	SUGGESTED STOCK NO.	COMPONENT COMPATABILITY	COMMENTS
Audio or Voice	IF-LSL-SA1	Suitable for use with any diode or helium neon laser made by the following companies :Elanco,Fisher Scientific, Heath Kit, Industrial Fiber Optics(IFO), Meredith Instruments, Mer-tologic and Scientific Laser Connection(SLC)	This receiver is sold with a dynamic microphone as Part NO. IF-LSL-2. The microphone is suitable for use with all IFO and SLC diode lasers.
Laser Speed of Light	IF-LSL-SA1	Replacement for Metrologic's Laser Speed of Light/Audio Kit Pat No.45-720	110 VAC operation - no more dead batteries
Video	IF-VR	Can be used with any Industrial Fiber Optics or Scientific Laser Connection video laser	Used for TV video output from RCA jacks
RF Video	IF-VRII	For use with Industrial Fiber Optics' WBS laser only(Part No.IF-UL-08-635)	Used with the IFO WBS laser for reception of TV picture and sound over a single channel