



## PHOTO DIODE DETECTORS

HINDS' DETECTION FEATURES INCLUDE:



- Frequency response of DC to several times the operating frequency of the PEM being used, 450kHz - 1 MHz depending on the model
- The DET maintains a constant bandwidth throughout all gain settings.
- Gain Selection, 10 positions
- The DET exhibits a constant DC offset throughout all gain settings.
- Offset Voltage (all gain settings),  $< \pm 5\text{mV}$
- Hi Z load from 0-10V and a  $50\Omega$  load from 0-5V

## SIGNALOC DUAL PHASE LOCK-IN AMPLIFIER

The Hinds Instruments Lock-in Amplifier, Signaloc 2100, offers an easy to use, research grade instrument for high sensitivity demodulation of the Photoelastic Modulator (PEM). The Signaloc LIA can demodulate the 1f signal from the PEM for Kerr ellipticity measurements and the 2f signal for Kerr rotation measurements. To do both measurements simultaneously two Signalocs are required. Signaloc offers both an RS232 control via the standard Signaloc software or an included Labview driver for integration into your system.



## LASERS AND OTHER LIGHT SOURCES

Hinds can procure light sources for you. We stock 2mW HeNe lasers and will order other light sources per your specification.

## POLARIZERS

We recommend good quality linear polarizers, preferably Glan Thompson or Polarcor™. Hinds can add these to your quote as well.

## MAGNETS

We work with GMW to provide the best electromagnets for your application. If you do not already own a magnet system we can help you to determine the best solution.

