



QUADE4 MODULES

**OPERATING THE QUAD-E4 PHOTODIODE/AMPLIFIER
MODULE**

GENERAL: This unit consists of a quadrant photodiode and four independent transimpedance amplifier channels. It is designed for high sensitivity and for sensing low level signals.

POWER SUPPLY: A bipolar power supply is required, +/- 6VDC to +/-15VDC, 100mA. Double check wiring prior to turning on power. Improper /reverse wiring will damage the unit.

GAIN: The unit is supplied with a fixed feedback resistance of 10^8 ohms for each channel. Other gain settings may be specified at the time of order.

POLARITY: The standard polarity for the EOS silicon and InGaAs quadrant photodiodes is common cathode. This results in a negative-going signal at the output of the amplifier stage.

AMBIENT/BACKGROUND LIGHT: Because of the high gains involved, the unit must be shielded from ambient background light during operation. Measurement errors and/or saturation can result from improper shielding. The unit is threaded on the front (1.035-40) for an adapter to take a 1" diameter optical filter.

CONNECTION: A standard 9-pin D-style connector is used for the power inputs and signal outputs. See the data sheet for specific pin-outs. When ordered with a PS-1 power supply an adapter cable is provided for connection.