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Find the *Newport / ILX Lightwave LPA-9072* at our website: *Click HERE*

ILX Lightwave
LPA-9070B Series Laser Diode Parameter Analyzers

Features

- Tests laser diodes/LEDs operating from 0 to 500 or 0 to 3000 mA
- Windows® 95/98/NT application software available with built-in Access® database
- Manual operation in Constant Current or Constant Power mode
- Quick and accurate acquisition of L/I, V/I, L/Im and dL/dI parametric data with 16-bit resolution
- Up to 10 sets of parametric data compiled and presented in both graphical and tabular form
- Operates over RS-232 or optional GPIB/IEEE-488.2 interface

Model LPA-9070B Series Analyzer, when combined with a computer, forms the basis for highly precise, parametric analysis of laser diodes. Operating over the standard RS-232 or GPIB/IEEE-488.2 interface, these analyzers utilize advanced Windows® software to generate typical L/I, V/I, L/Im and dL/dI parametric data quickly and accurately with 16-bit resolution. Featuring simplified set up, the analyzers can be used at incoming inspection stations or laboratory environments where accurate, fast laser diode characterization is desired. A LabVIEW® instrument driver is available at no charge.

Model LPA-9072B utilizes a highly accurate 200 mA/500 mA dual range current source, while Model 9074B utilizes a 1 A/3 A source. Both instruments incorporate proven laser protection features. The precise internal photodetector current amplifier permits rapid calibration and measurement of optical power over a wide dynamic range.

The analyzer also includes inputs for ILX?s line of external power heads for direct light power measurement. In addition, the 16 W temperature controller facilitates temperature control and testing of virtually any laser diode package.

Choice of Software

LPA-9070B Series Analyzers are available with new, state-of-the-art, laser diode parametric analysis software: a stand alone Windows® 95/98/NT application and a Virtual Instrument (VI) driver forLabVIEW®. The stand alone software features the familiar Windows® graphical user interface, which allows multi-tasking and sharing of data with other applications or computers on the network. VI also provides the ability to interface with other lab instruments through the LabVIEW® system.

Both software types feature two detailed, yet easy-to-use, parametric analysis operating modes. PRODUCTION MODE runs the repetitive tests typical of an incoming inspection environment. SETUP MODE is used to modify existing tests, generate new tests or modify the system configuration. This mode is password protected for securing sensitive data and test configurations. In addition, MANUAL CONTROL MODE allows the instrument to be used as a low-noise, high-stability laser diode controller under PC control, including operation in either Constant Current or Constant Power mode.

Fast Parametric Data Acquisition

LPA-9070B Series Analyzers can generate L/I, V/I, L/Im and dL/dI parametric data with 16-bit resolution in seconds. Up to 10 sets of data can be compiled and presented in both graphical and tabular form. Data can be shared with other applications or easily output to a high-resolution printer. Since numerical processing techniques used to obtain derivative and threshold current values vary considerably from user to user, the 9070B Series provides a selection of industry standard algorithms for derivative and threshold calculations.

LPA-9070B Series Analyzers also interface readily with many other ILX Lightwave products. The LDM-4400 and LDM-4980 Series Laser Diode Mounts provide a comprehensive set of mounting solutions for lasers of all package types. A wide range of wavelength and power outputs can be accommodated by the LPH-6700B Series Power Heads.

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