

LaserSource Laser Diode Drivers



▶ ▶ ▶ DO MORE FOR LESS

- 100 mA to 20 Amps
- Full **optical** isolation
- Quasi-CW (**QCW**) mode
- Voltage control mode
- Software adjustable PD bias
- Computer interface
- VFD Display
- ½ rack compact enclosure

PRECISION & PERFORMANCE at an **affordable price!**

The Arroyo Instruments **LaserSource** represents the culmination of 21 years of experience developing current sources for laser diode test and measurement. By incorporating industry standard features with important improvements in instrument design, the **LaserSource** series of products are the most advanced laser diode drivers in the market today.

Ground Loops? A Thing of the Past!

A major design improvement over traditional laser drivers, all inputs (computer interfaces, modulation, and photodiode) and drive output are electrically isolated from each other, creating a versatile instrument that is unaffected by the electrical configuration of your diode or other test equipment. Even the photodiode input is fully isolated from the laser output, ensuring full isolation of the laser output from unwanted ground loops and other electrical disturbances. No other driver on the market has this capability.



Computer Interfaces Standard. Always.



While all instrument manufacturers offer some of their drivers with computer control, it is typically only on their more expensive units, adding hundreds of dollars to the cost of the instrument. All **LaserSources** come standard with USB and RS-232 computer interfaces, and are command set compatible with other manufacturers' drivers. This command set compatibility allows you to leverage any existing software you may have already developed.

Analog modulation? Yeah, we got that, too.

All **LaserSources** support analog modulation via the BNC jack on the rear of the instrument. Hardware production is active during modulation, protecting the laser diode regardless of the modulation input signal.

the **new name** in
laser diode test
and measurement

 arroyo instruments

sales@arroyoinstruments.com | **800-644-0416**
www.arroyoinstruments.com

Need to do QCW measurements? We've got you covered.

All 4300 Series **LaserSources** can be optionally equipped for quasi-CW (QCW) measurements, and feature both a trigger in and trigger out BNC for synchronization with other instruments. Analog sample-and-hold registers capture the current, voltage, and photodiode power at the end of the pulse, providing accurate diode measurements. Pulses can be generated internally by selecting pulse width, frequency, and duty cycle, or triggered externally. To assist in timing between instruments, the trigger in and trigger out have independent pulse delays.

No Manual? No Problem!

Unlike other instruments in their class, the **LaserSource** employs a dot-pixel character display that allows for human-readable status, readings, and errors. No longer do you need to get out the manual to figure out how to set the current limit, or to understand what error 114 is; you can read it directly on the display in plain English. This allows the user interface to be greatly simplified and at the same time easier to use.

Current or Voltage Don't Match? Call Us...

While we offer several standard current ranges, many applications require higher voltages or higher currents. Call us to discuss your high voltage or high current application, and we'll see if we have a solution for you.

Try us, and you won't go back.

We are passionate about our product, and know that once you try one of our instruments, you'll never go back. The **Laser-Source** is an easy to use instrument that you will have up and running on your bench in no time at all. If you have any questions about how the instrument works or if it will meet your requirements, you will find complete user's manuals on our web site that fully detail the capabilities and specifications of the instrument. You can also call or email us any time and we would be happy to help you.

	4201	4205	4210	4302	4304	4308	4320	
QUICK SPECIFICATIONS	Primary Specifications							
	Current Range (mA)	100	500	1,000	2,000	4,000	8,000	20,000
	Photodiode Input Range (mA)	5	5	5	20	20	20	20
	Compliance Voltage (V)	7	7	4	12	8	5	5
	QCW Parameters							
	Minimum Pulse Width (μs)				100	100	100	100
	Rise Time (μs)				< 20	< 20	< 20	< 40
	Duty Cycle (%)				0.1 - 60	0.1 - 60	0.1 - 60	0.1 - 60
	General Specifications							
	Size (H x W x D) [in(mm)]	1.82 (47) x 8.5 (215) x 11 (280)			3.5 (90) x 8.5 (215) x 12 (305)			
	Output Connector	DB-9	DB-9	DB-9	DB-9	DB-9	DB-9	9W4
	Computer Interfaces	USB & RS-232			USB & RS-232			
	US List Price	\$ 995	\$ 995	\$ 995	\$ 1,495	\$ 1,495	\$ 1,595	\$ 1,995
	QCW Option				\$ 395	\$ 395	\$ 395	\$ 395

All specifications are subject to change without notice. 4320 specifications are preliminary only.

Visit our web site for complete user's manuals, software, drivers, and information about our other products.



sales@arroyoinstruments.com
www.arroyoinstruments.com

800-644-0416