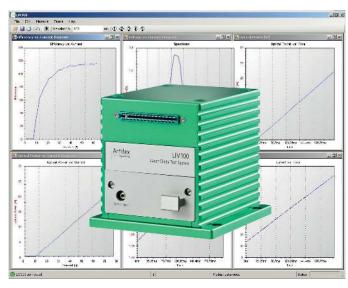
LIV in the fast lane!

Laser Diode Test System LIV100



Our offer in Detail:

The LIV100 is a powerful pulsed current test system for use in the lab as well as for OEM applications, ideal for

- Diode characterization at the chip or bar level
- Quality control of incoming goods
- OEM

We offer this instrument with a variety of end stages covering current ranges from 1A up to 400A.

A complete parameter set for a given measurement protocoll may be uploaded to the LIV100. The LIV100 then takes over the measurement procedure beginning with a test of proper laser contact. Once this preliminary test is passed, the unit drives the laser with the given prescription and performs the data acquisition and storage. Many laser diodes of the same type may now be tested in this manner with very high throughput. The measurement cycle takes less than 1s for 200 current steps including the data transfer to the host computer.

Specifications:

- Current: from 1A up to 400A
- Rise time: <50ns²
- Throughput: <1s per diode¹
- USB-controlled via command list
- Up to 6 channels of synchronized data acquisition
- Optical spectrum: resolution ~0.1nm

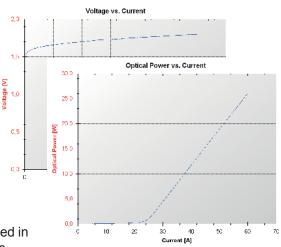
Your problem is our challenge - flexibility is our standard:

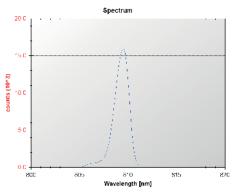
We will gladly adapt, for example, the wavelength or the current to suit your application. Let us know your requirements.



Highlights:

- High throughput
- Compact
- Low cost





Ordering Information

Long pulse version: LIV100-Lc-S

max.current (c)

Fast rise time version: LIV100-Fc-S

max.current (c)



Appendix S for integrated spectrometer option³. Please contact us for customized units.

Specifications

CONDITIONS	RESOLUTION	Min	Түр	Max	UNITS
	uts, 1 x free e.	g. for monite	or diode)	1	
selectable: $20/n$ MS/s with $n = 1 20$	n.a.	1		20	MS/s
			13		bit
optimum gain automatically selected			1 10		V/mA
Input capacitance <20pF, gain = 1 kΩ			50		ns
20MS/s sampling rate 1MS/s sampling rate	0.050 1	0.150 1		100 2000	μs
Fast rise time version Long pulse version			50 ² 420	70 500	ns
			0	5	%
	50	100		500 000	μs
LIV100-L002 (or F002) LIV100-L040 (or F040) LIV100-L080 (or F080) LIV100-L120 (or F120)	0.0005 0.01 0.02 0.03 0.05	0.0005 0.01 0.02 0.03 0.05		2 40 80 120 200	A
	0.00	0.00	12	200	bit
Fast rise time version				8 ⁷ 21	V
Fast rise time version: LIV100-F002 LIV100-F040 LIV100-F080 LIV100-F120 Long pulse version: LIV100-L002 LIV100-L040 LIV100-L080 LIV100-L120 LIV100-L200				25 1.5 0.7 0.5 35 6 3 2 1.2	%
			512		kB
	1	1		250	
			USB; 100kB/s		
		U	JSB; 100kB/	s	
		U	ISB; 100kB/	S	
	r (1 x optical power input, 1 bitage and optical power inp selectable: 20/n MS/s with n = 1 20 optimum gain automatically selected Input capacitance <20pF, gain = 1 kΩ 20MS/s sampling rate 1MS/s sampling rate Fast rise time version Long pulse version LIV100-L002 (or F002) LIV100-L040 (or F040) LIV100-L080 (or F080) LIV100-L080 (or F120) LIV100-L200 Fast rise time version Long pulse version Fast rise time version Long pulse version Fast rise time version LIV100-F002 LIV100-F040 LIV100-F040 LIV100-F020 LIV100-F040 LIV100-L200 L	r (1 x optical power input, 1 x free e.g. for bitage and optical power inputs, 1 x free e.g. for selectable: 20/n MS/s with n = 1 20 optimum gain automatically selected Input capacitance <20pF, gain = 1 kΩ 20MS/s sampling rate 1 Fast rise time version Long pulse version LIV100-L002 (or F002) LIV100-L040 (or F040) LIV100-L040 (or F040) LIV100-L020 (or F080) 0.005 LIV100-L120 (or F120) LIV100-L120 (or F120) LIV100-L200 0.05 Fast rise time version Long pulse version Fast rise time version Long pulse version Fast rise time version: LIV100-F002 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-L020 Cong pulse version: LIV100-L020 LIV10	r (1 x optical power input, 1 x free e.g. for monitor dioc bitage and optical power inputs, 1 x free e.g. for monitor selectable: 20/n MS/s with n = 1 20 optimum gain automatically selected Input capacitance <20pF, gain = 1 kΩ 20MS/s sampling rate 1 1 Fast rise time version Long pulse version Long pulse version LV100-L002 (or F002) LIV100-L040 (or F040) LIV100-L080 (or F080) 0.02 0.03 0.05 0.05 Fast rise time version Long pulse version Fast rise time version Long pulse version Fast rise time version Long pulse version Fast rise time version LO1 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-F040 LIV100-L020 LIV100	r (1 x optical power input, 1 x free e.g. for monitor diode) bitage and optical power inputs, 1 x free e.g. for monitor diode) selectable: 20/n MS/s with n = 1 20 n.a. 1 optimum gain automatically selected Input capacitance <20pF, gain = 1 kΩ 20MS/s sampling rate 1 1 Fast rise time version Long pulse version LIV100-L002 (or F002) LIV100-L002 (or F020) LIV100-L003 (or F080) LIV100-L120 (or F120) LIV100-L200 Fast rise time version Long pulse version LIV100-L200 Doubt for formal Fast rise time version LIV100-L200 Constant for formal Constant f	r (1 x optical power input, 1 x free e.g. for monitor diode) oftage and optical power inputs, 1 x free e.g. for monitor diode) selectable: 20/n MS/s with n = 1 20 optimum gain automatically selected lnput capacitance <20pF, gain = 1 kΩ 20MS/s sampling rate 1 1 1 20MS/s sampling rate 20MS/s sampling rate 1 1 1 2000 Fast rise time version Long pulse version LIV100-L002 (or F002) LIV100-L002 (or F040) 0.01 0.05 0.000 0.01 0.01 0.01 0.01 0.03 0.03 0.03 120 1V100-L040 (or F040) 1.V100-L020 0.05 0

- ⁶ Optimum sampling rate is automatically selected.
 ⁶ With optimized strip line connector, no load matching required.
 ⁷ Dependant on the configuration of the connecting cable.

¹ At 2µs pulse width, 200 current steps and 0,2% duty cycle.
² At 60A using F-version. Maximum current for F-version is 120A.
³ Wavelenth range and resolution per customer's requirements.
⁴ Per ANSI/IEEE Standard 181-1977: 10% - 90%.