LIV Your Dreams!

Laser Diode Test System LIV120

Highlights:

- High throughput
- Pulsed, QCW and CW
- LIV and Burn-In

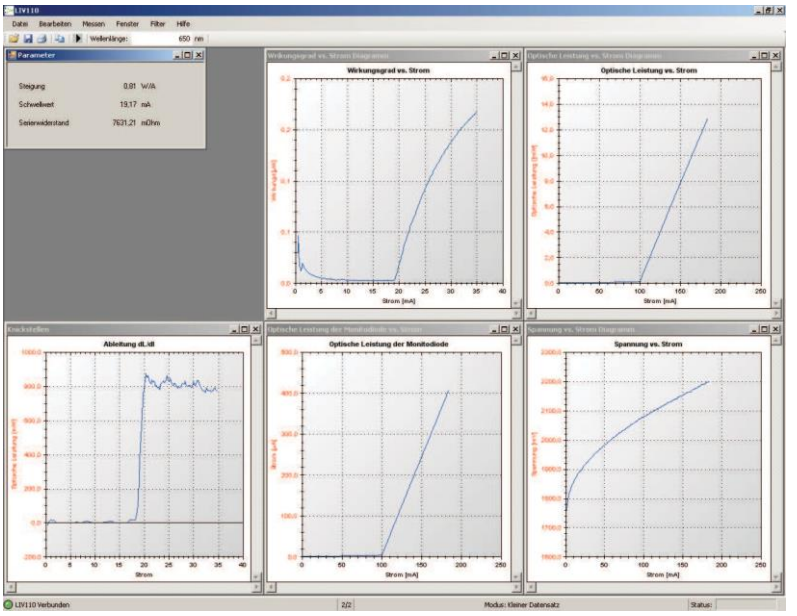
Our offer in Detail:

The LIV120 is a versatile but low cost test system for use in the lab as well as for OEM applications.High speed data processing and an intelligent hardware architecture allow a wide range of test sequences

- low duty cycle pulsing
- QCW
- hard pulse testing
- soft pulse testing
- true CW operation

This system is, ideal for

- diode characterization
- quality control of incoming goods
- OEM production and testing machines



We offer this instrument with a variety of end stages covering current ranges up to 2A in a compact enclosure and up to 120A using an external current driver end stage. The low power versions use our OPM150 laser power detector heads with all of the comfort of intelligent head technology for cost-efficient swapping of detector heads. This feature is very useful when testing a wide range of wavelengths or when testing free beam and fibre coupled lasers.

A complete parameter set for a given measurement protocoll may be uploaded to the LIV120. The LIV120 then takes over the measurement procedure. 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 including the data tranfer to the host computer[1].

Features

- Spectrum (optional)
- Programmable pre-measurement thermalization
- Pass / fail reporting
- Stop sweep on optical threshold

Your problem is our challenge – flexibility is our standard:

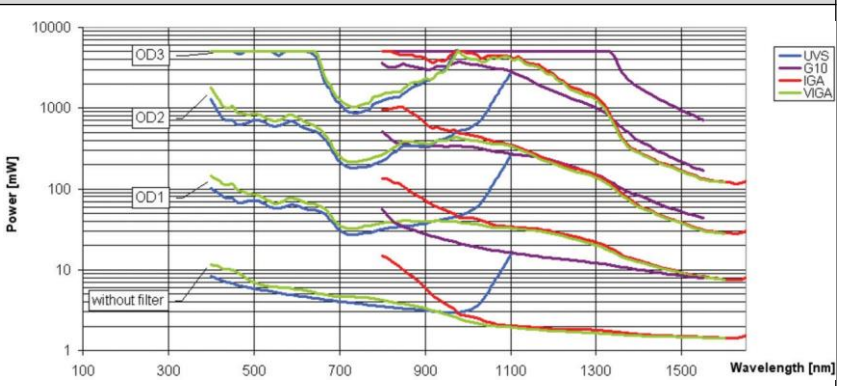
We will gladly adapt, for example, the wavelength or the current to suit your application. Let us know your requirements.

LIV120-c

max. current

Please contact us for customized units.

Specifications

Parameter	Conditions	Min	Typ	Max	Units
INPUT					
Maximum measureable power	OD1, OD2 and OD3 refer to use with the respective attenuating filter				
Monitor Current	Gain 0 Gain 1 Gain 2	0.0025 0.00025 0.025		10 1 100	mA mA µA
OUTPUT					
Laser Diode Current (min. value = resolution)	LIV120-250 LIV120-500 LIV120-1000 LIV120-2000 LIV120-60A LIV120-120A	0.0625 0.125 0.25 0.5 0.015 0.03		250 500 1000 2000 60 120	mA A
Compliance		6.7	8		V
Accuracy				± 2	%
Offset			0.3	0.5	mA
Risetime				5	µs
Pulse Duration	Pulse modes	0.1		60000	ms
Duty Cycle	Pulse modes	0.0002		99.99	%
Step Length	CW modes	0.1		120000	ms
Burn-in Duration (with power measurement)		200		 11	µs days
Number of Measurements per Channel	LIV modes	1		4000	
Number of Measurements	Burst modes	1		16380	
Number of Measurement Channels		4 (optical power, monitor photodiode, laser voltage, laser current)			
GENERAL					
Power Supply	250-2000mA	15 2.6			V A
	60-120A	85-264 5-10			V A
Communication		USB 2.0			
Dimensions	250-2000mA	130 x 120 x 54 mm (W x L x H)			mm
	60-120A	19'' rack, 3U			

[1] Using 10 sample averaging.

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