

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 intelligent hardware architecture allow a wide range of test sequences

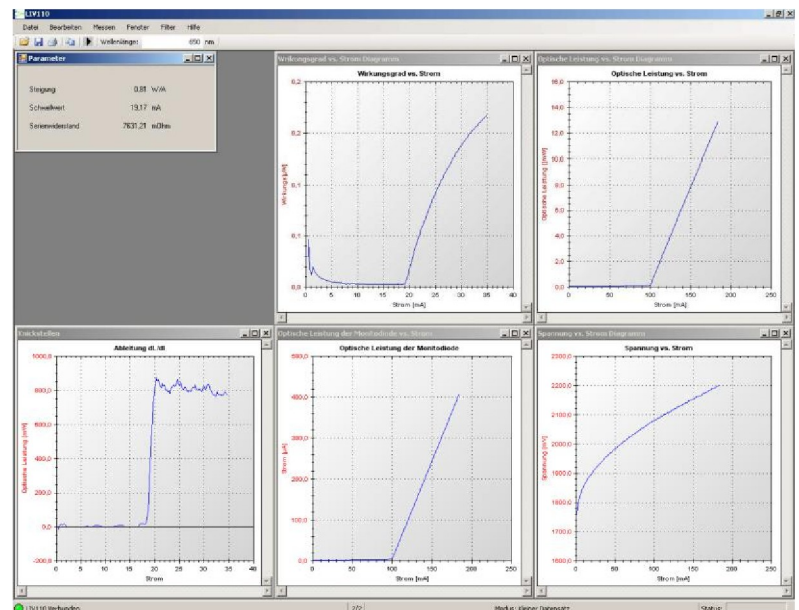
- low duty cycle pulsing
- QCW
- hard pulse testing
- soft pulse testing
- true CW operation

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 400A.

A complete parameter set for a given measurement protocol 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 transfer to the host computer¹.



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 (c) ←

Specifications

Parameter	Conditions	Min	Typ	Max	Units
INPUT					
Maximum measurable power	Depends on the integrating sphere chosen for the application. Please contact us for assistance.				
Monitor Current	Gain 0	0.0025		10	mA
	Gain 1	0.00025		1	mA
	Gain 2	0.025		100	μA
OUTPUT					
Laser Diode Current (min. value = resolution)	LIV120-50A	0.0125		50	A
	LIV120-100A	0.025		100	
	LIV120-200A	0.05		200	
	LIV120-400A	0.1		400	
Compliance			10		V
Accuracy				± 2	%
Offset			0.1		A
Risetime	LIV120-100A			200	μs
	LIV120-400A			400	
Pulse Duration	Pulse modes	0.5		60000	ms
Duty Cycle	Pulse modes	0.001		99.99	%
Step Length	CW modes	0.5		120000	ms
Burn-in Duration (with power measurement)		200			μs
				11	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	LIV120-50A	85-264V / 5A			
	LIV120-100A	85-264V / 10A			
	LIV120-200A	180-230V / 13A			
	LIV120-400A	342-457V / 10A			
Communication		USB 2.0			
Dimensions	LIV120-50A	19" rack, 3U			
	LIV120-100A	19" rack, 3U			
	LIV120-200A	19" rack, 6U			
	LIV120-400A	19" rack, 6U			

¹ Using 10 samples averaging.

Please contact us for customized units.