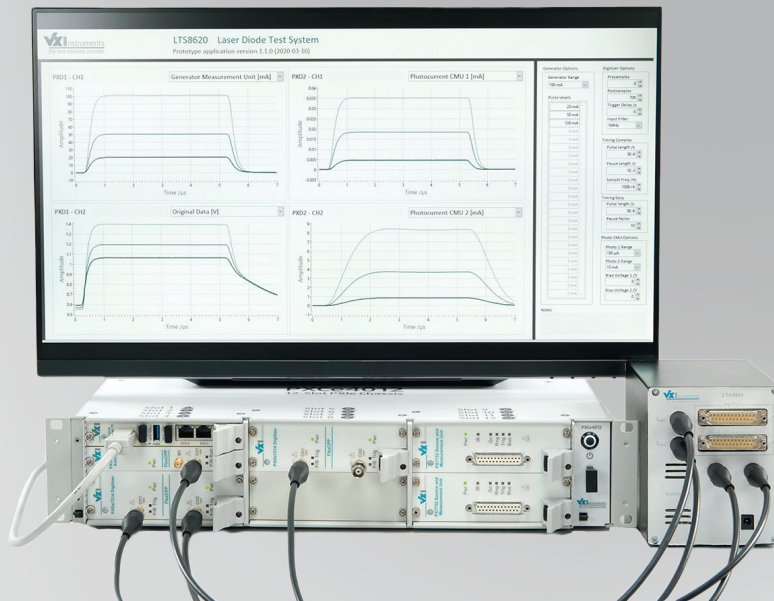


LTS8620 + LTA8601 Laser Diode Test System



Special Features

- Very short pulses down to 2 μ s
- Pulse current up to 250 mA
- 3 current generator ranges (50, 100, 250 mA) for a maximum variety of test scenarios; higher currents on request
- Independent support for 2 photo sensors
- 6 photo-current measurement ranges
- Programmable bias voltage
- 16 Bit resolution for signal generating and measurement
- 100 MS/s sampling frequency
- Free programmable in C, LabVIEW, ...
- All PXI components can also be used for individual purposes

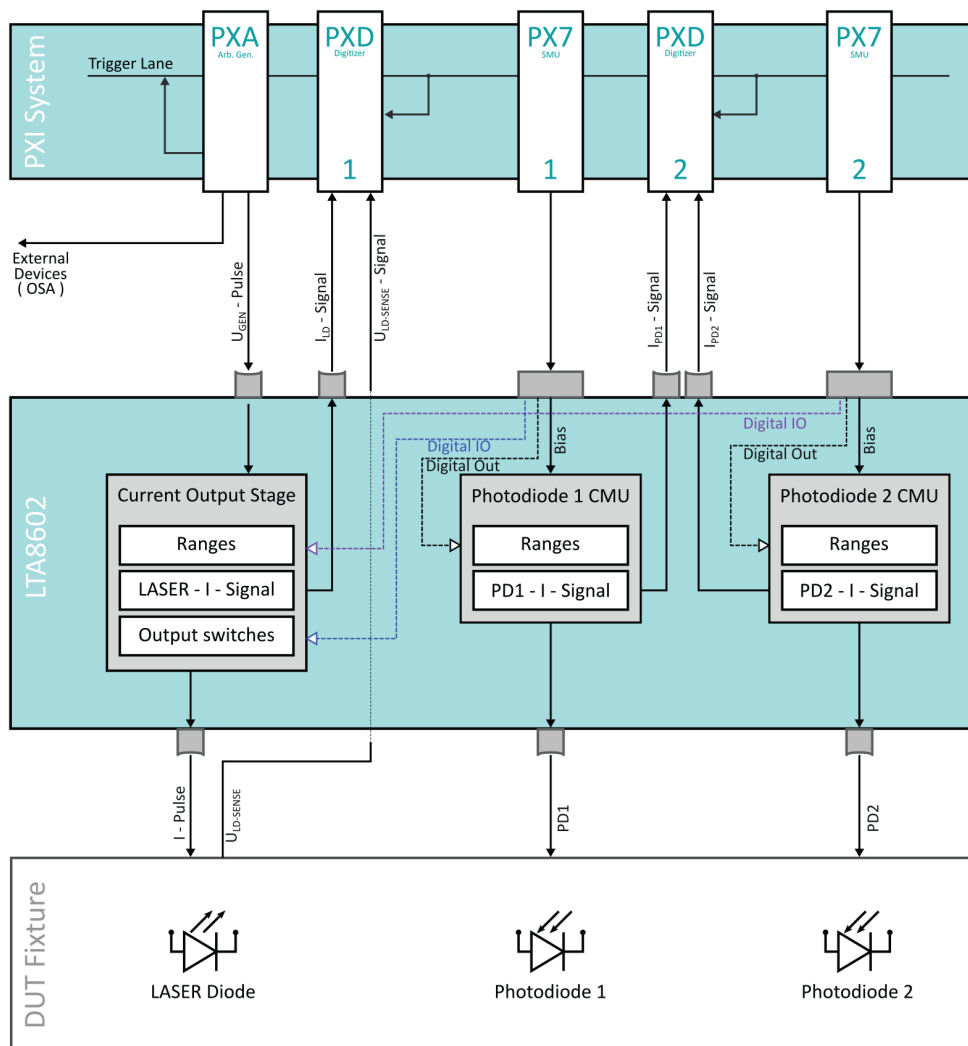
System Description

The LTS8620 Laser Diode Test System is an integrated PXI test system for easy characterizing and testing of laser diodes in laboratory and production. It consists of the following PXI components:

- PXCe4012 12-slot PXIe Hybrid Chassis
- PXIe3110 Embedded PC
- PXAe7223 Arbitrary Waveform Generator
- 2x PXDe7214 60V Digitizer
- 2x PX7731 PXI SMU

In addition, only the adapter box LTA8601 is needed to realize a very short distance between Device Under Test (DUT) and the sensible measurement circuits. So standard BNC cables can be used between the PXI components and the adapter box for easy cabling.

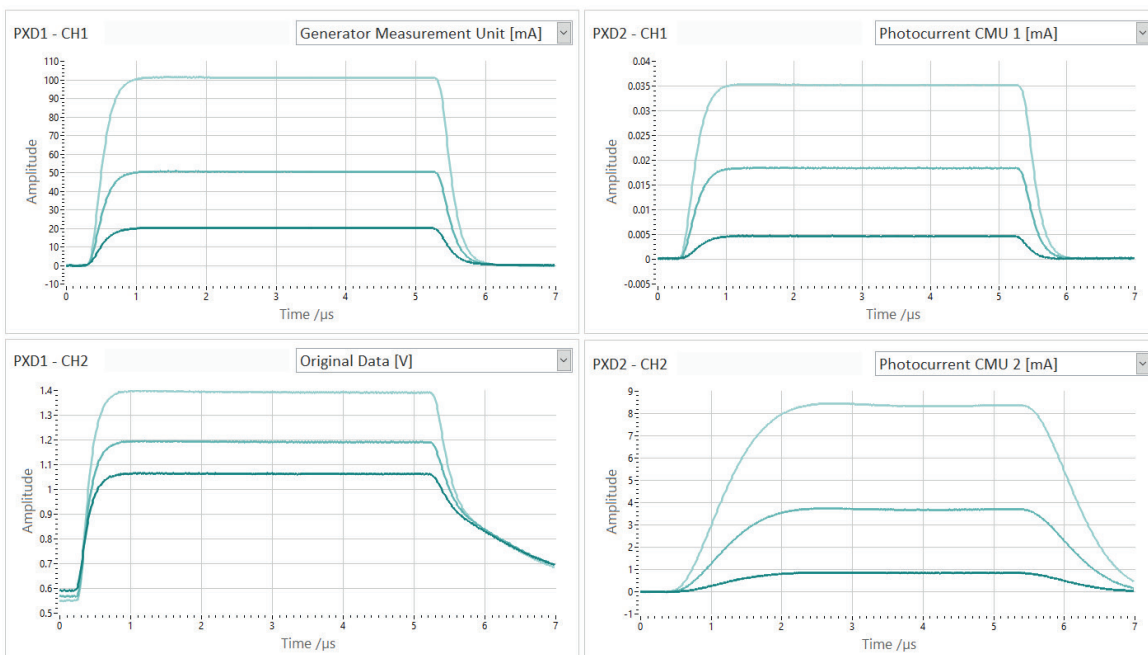
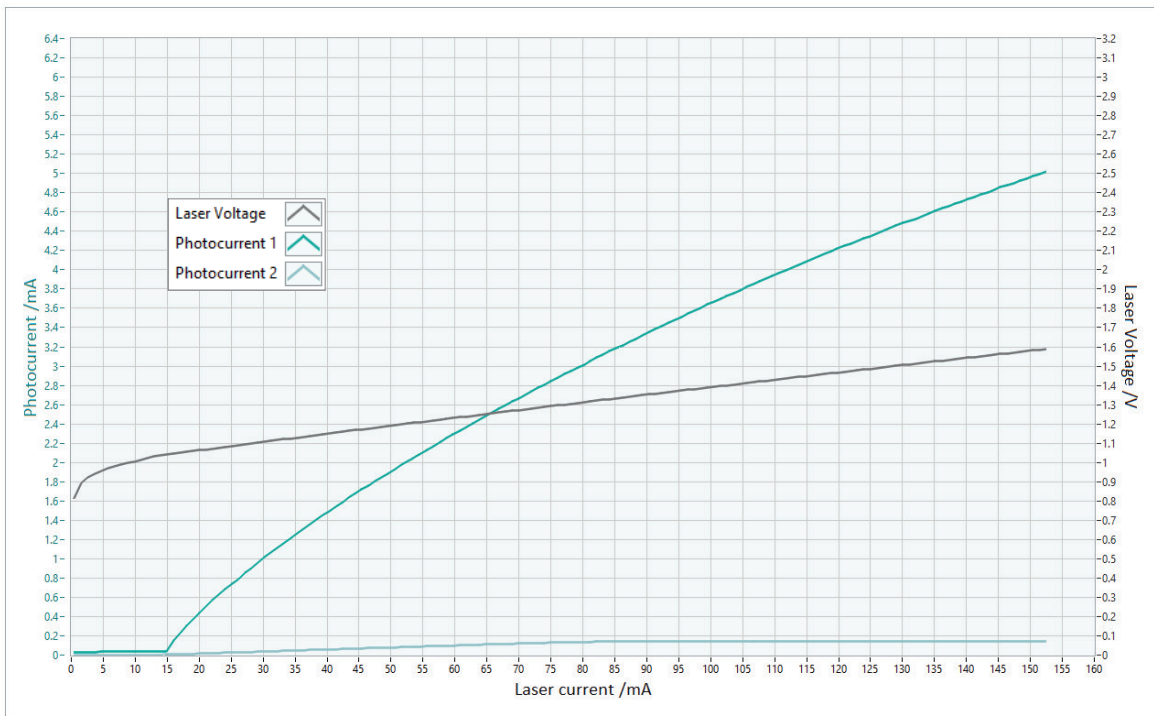
System Concept



System Applications

- Light-Current-Voltage (LIV) characteristics
- Single shot – researching of single pulse behavior
- Production testing of laser diodes

Free example application is available!



Test System PXI Components

Most important technical data of the PXI devices



PXCe4012 12-slot PXI Express Chassis

- 1 system slot, 7 PXI Express slots and
- 4 PXI/PXI Express hybrid peripheral slots
- Very compact 2U 19" design

[Link to Product Page ↗](#)



PXD(e)721x Waveform Digitizer

- High input voltage range with up to 120V_{pp}
- Maximum sample rate 100MS/s@16Bit resolution
- Memory segmenting
- Isolated inputs

[Link to Product Page ↗](#)



PX773x Source Measure Unit

- Supports current source & sink (4-quadrant operation)
- No external power source required
- Isolated design
- Measurement function for output voltage and current

[Link to Product Page ↗](#)



PXIe3110 Embedded Controller

- Most compact PXIe Embedded Controller on market
- Intel® Core™ i5 CPU (7th generation) with Hyper-Threading
- Up to 32 GB RAM
- PXI-5 PXI Express hardware spec.Rev.2.0 compliant
- Integrated m.2 NVMe 250 GB storage

[Link to Product Page ↗](#)



PXA(e)72xx Arbitrary Waveform Generator

- Output voltages up to +30 V or ±15 V
- Up to 200 MS/s @ 16 Bit resolution
- Free programmable waveforms and sequencing
- Isolated signal outputs

[Link to Product Page ↗](#)