

PiLas

Picosecond gain switched laser diode module for OEM and R&D applications.

- High pulse quality – no satellite pulse and minimized pulse tail
- Variable pulse repetition rate – single shot to 1 MHz or 10 to 100 MHz
- Pulse on demand
- Wavelengths from 375 – 2000 nm
- High repeatability and 24/7 operation
- Compact, dust-sealed OEM package
- External and internal trigger
- Simple user interface
- Plug & play
- Air cooled
- Maintenance free – no user-serviceable parts inside or outside laser



	PiLas	Fast PiLas
Center wavelength ¹	375 nm – 2 μm	
Pulse duration ²	20 ps – 1 ns variable	
Pulse peak power ²	25 – 1000 mW	
Pulse repetition rate	single shot – 1 MHz	up to 100 MHz
Output	free space or fiber output	
PER	> 23 dB	
Timing jitter	< 3 ps rms	
Warm-up time	< 5 minutes	
Size laser head	74 x 38 x 107 mm ³	
Size control unit	235 x 88 x 326 mm ³	
Power consumption	15 W	25 W
Weight laser head	0.45 kg	
Weight controller	5 kg	

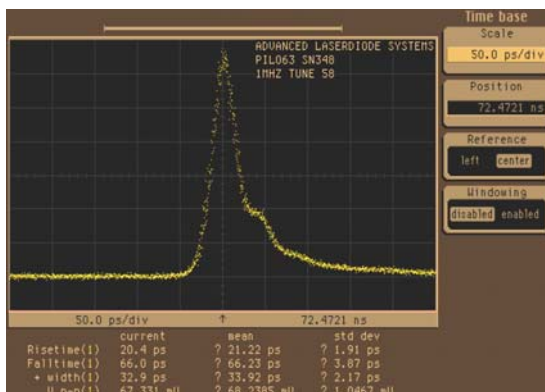
Options

- Single mode or multi mode fiber output, fiber collimator with or w/o microfocus
- Thermal wavelength tuning
- Converter TTL to NIM level for trigger-out
- Narrow spectral line-width DFB-laser

¹ all commercially available laser diode wavelengths in this range
² depending on center wavelength regime

Sample data of a PiLas with center wavelength of 630 nm (PiL063)

Sampling oscilloscope data



Streak camera data for various pulse energies

