



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 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
- Remote control
- Maintenance free – no user-serviceable parts inside or outside laser

	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 – 120 MHz
Output	free space or fiber output
PER	> 23 dB
Timing Jitter	< 3 ps rms
Warm-up time	< 5 minutes
Size laser head	95 x 31 x 147 mm ³
Size control unit	235 x 88 x 326 mm ³
Power consumption	< 15 W
Weight laser head	0.45 kg
Weight controller	2.5 kg

¹ all commercially available laser diode wavelengths in this range

² depending on center wavelength regime

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
- Single box OEM package

Sample data of a PiLas with center wavelength of 405 nm (PiL040)

Sampling oscilloscope data

