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Model 131 - Picosecond Pulse Actively Mode-Locked Laser



Model 131 lasers are actively mode-locked diode-pumped systems. These lasers are suitable for a range of applications including seed sources for regenerative amplifier systems, photodetector testing, and electro-optic sampling. Active mode locking allows for built-in timing stabilization and the ability to synchronize the laser to an external clock, or use the laser's clock to synchronize other equipment.

Model 131 lasers are semi-customizable. While standard pulse durations are around 10 picoseconds to 20 picoseconds (depending on the model), the pulse duration can be factory set to several tens or hundreds of picoseconds by inserting and etalon in the cavity. Also, the standard repetition rate is 100 MHz, but this can be factory set to any fixed rate from 80 MHz to 250 MHz.

The laser is designed for reliable, hands-off operation. The laserhead is air-cooled and requires no special utilities. The systemconsists of the laser head and microprocessor-based controller. Set-up takes a few minutes.

Key Specifications:

Model	131-1047-200	131-1053-200	131-1064-200
Wavelength	1047 nm	1053 nm	1064 nm
Spatial Mode	TEM_{00}	TEM_{00}	TEM_{00}
Standard Rep. Rate	100 MHz	100 MHz	100 MHz
Average Power,typ.	100 MHz	> 200 mW	> 200 mW
Pulse Width, typ.	< 12 psec	< 12 psec	
Timing Jitter, typ.	< 1 psec rms	< 1 psec rms	< 1 psec rms

(Specifications subject to change without notice.)

Features
Turn-Key, Picosecond Pulses, Efficient, Air-cooled System, Low Maintenance, Customizable Design

Applications
Seeding Amplifiers, Electro-Optic Sampling, Photodetector Testing, Spectroscopy, Non-Linear Optics Testing

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