

Series CL210 *long pulse*



35 Watt 1064 nm
15 Watt 532 nm
3 Watt 355 nm

- high repetition rate solid-state diode pumped Q-switched laser in oscillator-amplifier configuration
- fundamental 1064 nm, green 532 nm and UV 355 nm available
- air-cooled, compact laser for micro and precision processing
- no additional cooling unit required
- excellent beam quality
- short pulses at high repetition rates
- high Peak Power
- first pulse suppression by fast energy modulation
- high reliability for 24/7 operation
- ports for TTL, analog and RS 232 control
- cost-effective operation
- customised modifications possible

Applications

- rapid prototyping
- micro-machining
- thin film structuring
- marking, trimming

Model	CL 210-1064	CL 210-532	CL 210-355
Wavelength	1064 nm	532 nm	355 nm
Power	10 W @10 kHz 30 W @ 30 kHz 35 W @ 100 kHz	5 W @10 kHz 15 W @ 30 kHz	3 W @ 10 kHz 2 W @ 30 kHz
Pulse Repetition Rate	1 – 200 kHz		
Pulse Width	15 ns @10 kHz 20 ns @ 30 kHz 40 ns @100 kHz	10 ns @ 10 kHz 15 ns @ 30 kHz	10 ns @10 kHz 15 ns @ 30 kHz
Pulse Energy	1,0 mJ @10 kHz 1,0 mJ @ 30 kHz 0,35 mJ @100 kHz	0,5 mJ @10 kHz 0,5 mJ @ 30 kHz	0,3 mJ @10 kHz 0,06 mJ @30 kHz
Beam Quality	$M^2 < 1,4$		
Polarisation	Linear		
Cooling	Laser head / power supply – air / air		
Dimension Laserhead (W/H/L)	132 mm × 115 mm × 530 mm		
Dimension Power Supply (W/H/L)	2 × 19 Inch, 3 RU		
Power Consumption	110 –240 V, 50–60 Hz, 800 W		
Operating Temperature	15 – 35 °C		

Series CL210 *short pulse*



15 Watt 1064 nm
7 Watt 532 nm

- high repetition rate solid-state diode pumped Q-switched laser in oscillator-amplifier configuration
- fundamental 1064 nm, green 532 nm available
- air-cooled, compact laser for micro and precision processing
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Applications

- rapid prototyping
- micro-machining
- thin film structuring
- marking, trimming

Model	CL 210-1064 sp	CL 210-532 sp
Wavelength	1064 nm	532 nm
Power	10 W @10 kHz 15 W @ 30 kHz	6 W @10 kHz 7 W @ 30 kHz
Pulse Repetition Rate	1 – 100 kHz	
Pulse Width	8 ns @10 kHz 10 ns @ 30 kHz	5 ns @ 10 kHz 8 ns @ 30 kHz
Pulse Energy	1,0 mJ @10 kHz 0,5 mJ @ 30 kHz	0,6 mJ @10 kHz 0,4 mJ @ 30 kHz
Beam Quality	$M^2 < 1,4$	
Polarisation	Linear	
Cooling	Laser head / power supply – air / air	
Dimension Laserhead (W/H/L)	125 mm × 129 mm × 460 mm	
Dimension Power Supply (W/H/L)	19 Inch, 4 RU	
Power Consumption	110 –240 V, 50–60 Hz, 800 W	
Operating Temperature	15 – 35 °C	

Series CL210 *short pulse*



20 Watt 1064 nm
10 Watt 532 nm
4 Watt 355 nm

- high repetition rate solid-state diode pumped Q-switched laser in oscillator-amplifier configuration
- fundamental 1064 nm, green 532 nm and UV 355 nm available
- water-cooled, compact laser for micro and precision processing
- no additional cooling unit required
- excellent beam quality
- short pulses at high repetition rates
- high Peak Power
- first pulse suppression by fast energy modulation
- high reliability for 24/7 operation
- ports for TTL, analog and RS 232 control
- cost-effective operation
- customised modifications possible

Applications

- rapid prototyping
- micro-machining
- thin film structuring
- marking, trimming

Model	CL 210-1064 sp	CL 210-532 sp	CL 210-355 sp
Wavelength	1064 nm	532 nm	355 nm
Power	15 W @10 kHz 20 W @ 30 kHz	10 W @10 kHz 10 W @ 30 kHz	4 W @ 10 kHz 3 W @ 30 kHz
Pulse Repetition Rate	1 – 100 kHz		
Pulse Width	8 ns @10 kHz 10 ns @ 30 kHz	5 ns @ 10 kHz 8 ns @ 30 kHz	5 ns @10 kHz 8 ns @ 30 kHz
Pulse Energy	1,5 mJ @10 kHz 0,6 mJ @ 30 kHz	1,0 mJ @10 kHz 0,3 mJ @ 30 kHz	0,4 mJ @10 kHz 0,1 mJ @30 kHz
Beam Quality	$M^2 < 1,4$		
Polarisation	Linear		
Cooling	Laser head / power supply – water / water		
Dimension Laserhead (W/H/L)	150 mm × 115 mm × 500 mm		
Dimension Power Supply (W/H/L)	2 × 19 Inch, 3 RU (OEM version opt. available)		
Power Consumption	110 –240 V, 50–60 Hz, 800 W		
Operating Temperature	15 – 35 °C		