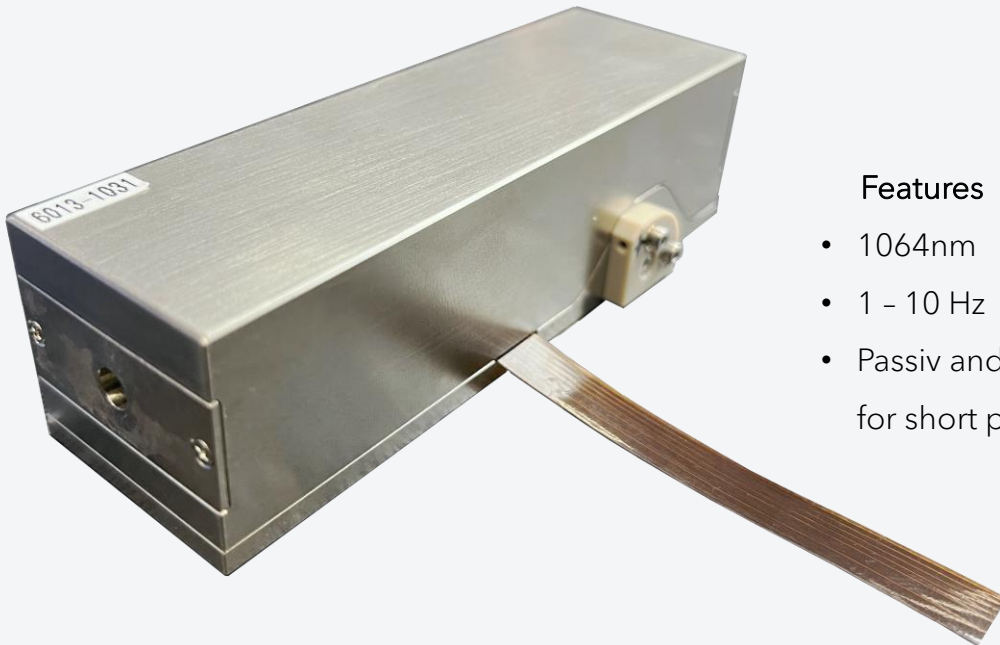


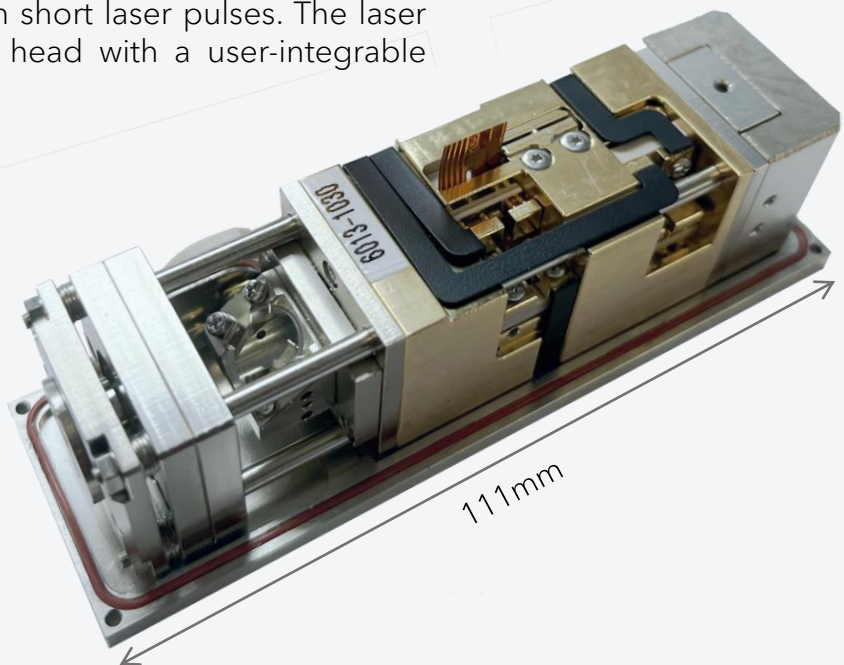
## Mini Q-switch Diode Pumped Solid State Laser



### Features

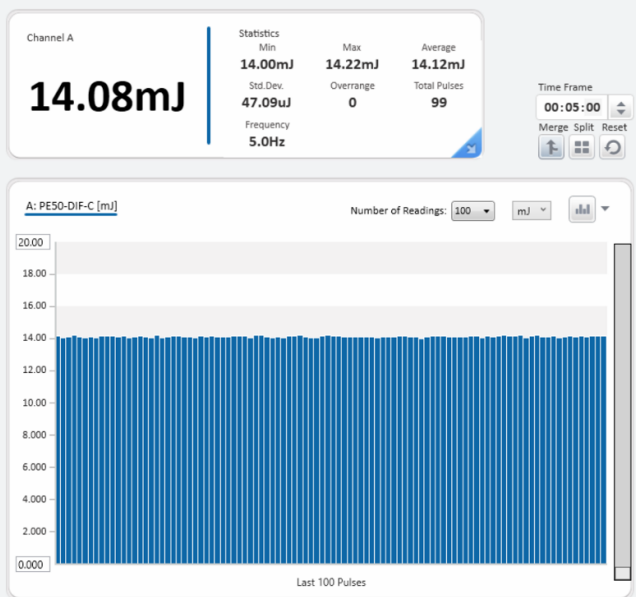
- 1064nm
- 1 - 10 Hz
- Passiv and active Q-switch for short pulses

The Arthos 5 AC is an air-cooled diode pumped solid state laser which can be operated with repetition rates from single shot to 10 Hz. Depending on version the system generates light radiation at 1064nm in short laser pulses. The laser is a small OEM laser head with a user-integrable driver board.



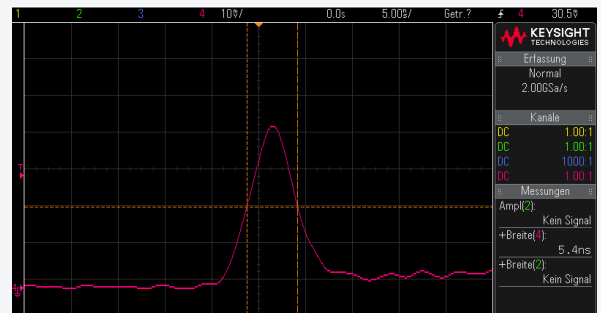
Beam Quality: from TEM<sub>00</sub> until  $M^2 \leq 10$

## Pockels Cell Q-switch

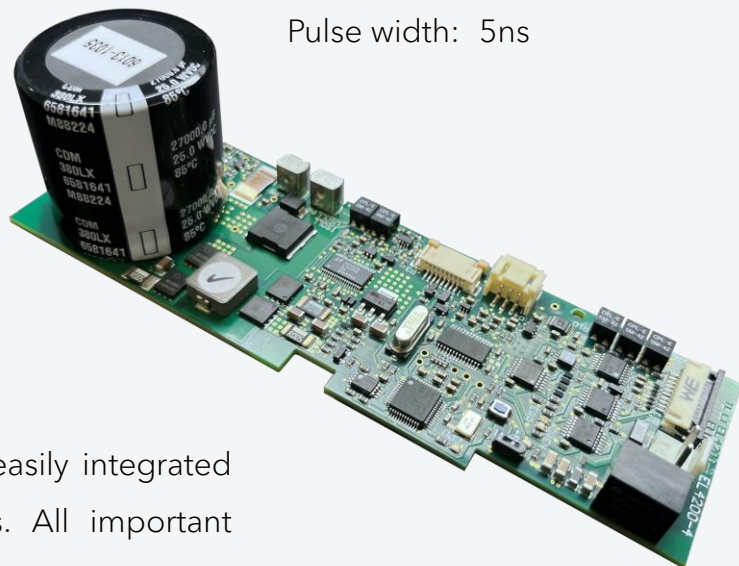


## Results

- 1064nm
- 5 Hz
- Active Q-switch for short pulses
- 0.5% ptp stability RMS



Pulse width: 5ns



The driver board can be easily integrated into the OEM electronics. All important parameters can be controlled via an interface. For OEM customers the electronics can be customized.

Specifications				
Wavelength	1064nm	1064nm mode optimized	532nm	532nm mode optimized
Power / Energy	> 14mJ	> 4mJ	> 7mJ	> 2.0mJ
Repetition Rate	1 - 10 Hz			
Pulse Width	5 ± 0.5ns	5 ± 0.5ns	4 ± 0.5ns	4 ± 0.5ns
Pulse to Pulse Stability (RMS)	< 0.5%	< 0.5%	< 1.0%	< 1.0%
Polarization	vertical			
Beam Diameter	2.4 mm	1.2 mm	2.2 mm	1.1 mm
M <sup>2</sup>	< 10	< 2	< 8	< 1.5
Operating Conditions				
DC Input Voltage	24 V DC, Typ 1 A, Max 2 A			
Warm-up Time	10 min for temperature stabilization			
Temperatur Range (environment)	15 - 35°C			
Relative Humidity	8 - 95 % (not condensing)			
Cooling Requirements	Environment cooling			
Power Consumption	Typ.: 20 W; max.: 40 W			
Dimensions				
Laser Head	111mm x 34mm x 31mm			
Weigth	0,4 kg			

## Mechanical Specifications

