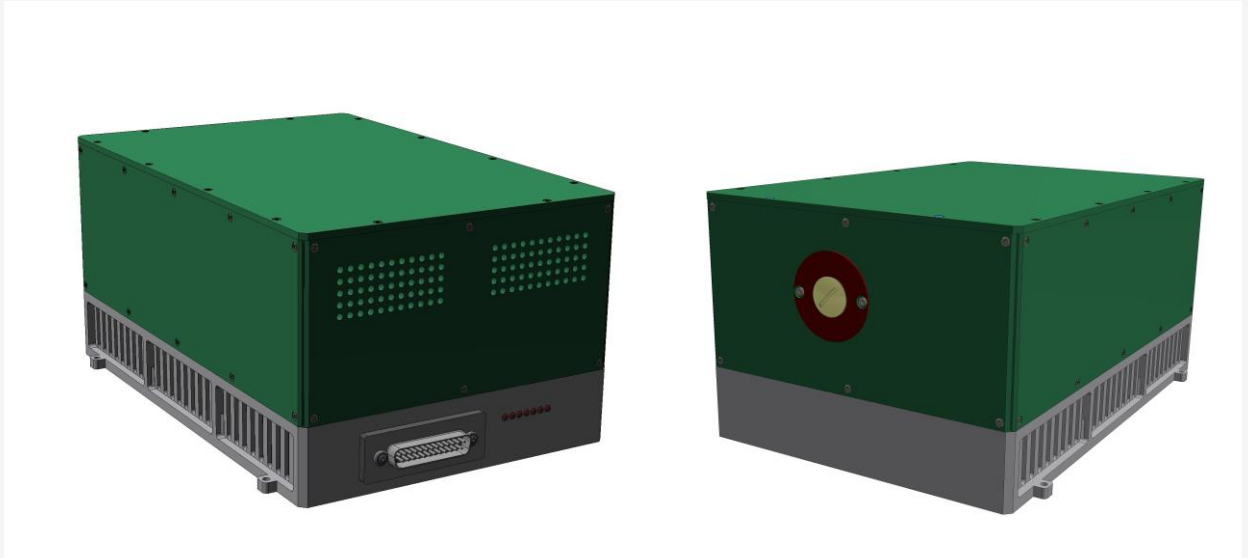


## Diode Pumped Q-switched Solid State Laser

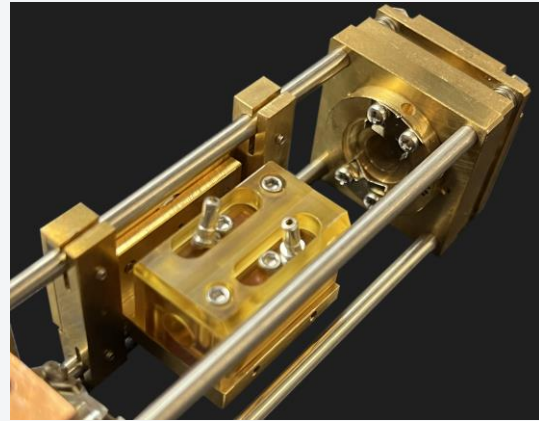
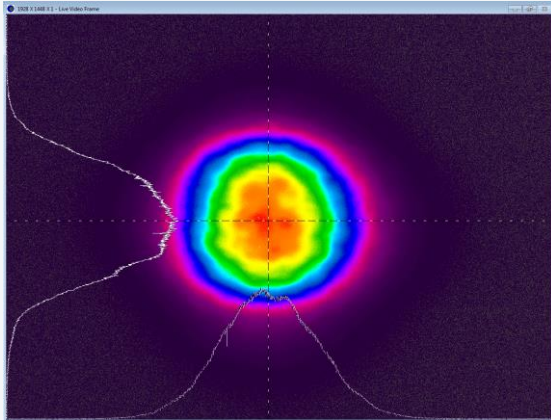


The Arthos 10 AC is an air-cooled diode pumped solid state laser which can be operated with repetition rates from single shot to 200 Hz. Depending on version the system generates light radiation at 1064/532/355/266nm in short laser pulses. The laser is a small OEM laser head with a user-integrable driver board.

### Features

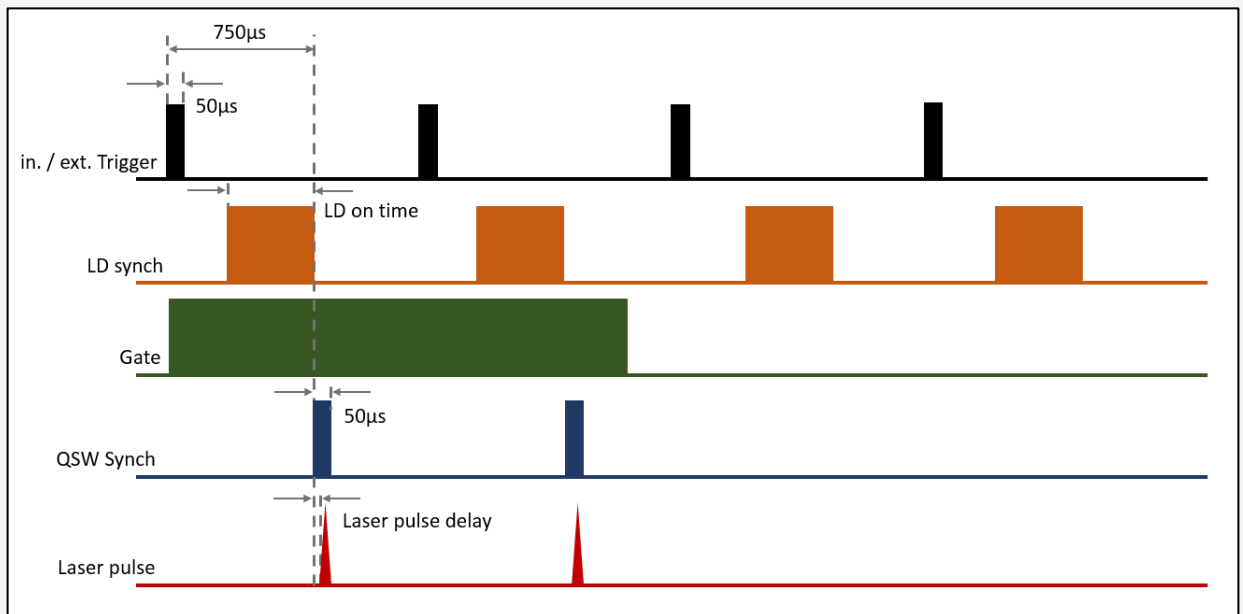
- 1064nm
- 1 - 200 Hz
- Active Q-switch for short pulses

## Beam Quality 1064nm



Pockels Cell Q-switch

## Timing Diagram - Operational Modes



The timing diagram shows the relationship of the different timing events of the laser system which are either controlled by the Laser control unit in internal trigger mode or must be applied by the user in external trigger mode.

Specifications				
Wavelength	1064nm	532nm	355nm	266nm
Power / Energy	> 10mJ	> 5mJ	> 3mJ	> 1.0mJ
Repetition Rate	1 - 200Hz			
Pulse Width	8 ± 2ns	5 ± 1ns	5 ± 1ns	4 ± 1ns
Pulse to Pulse Stability (RMS)	< 1.0%	< 1.0%	< 1.5%	< 2.0%
Polarization	vertical	horizontal	vertical	vertical
Beam Diameter	2.4 mm	2.0	1.9	1.8
Beam Divergence	< 8mrad	< 4mrad	< 4 mrad	< 3.5mrad
Operating Conditions				
DC Input Voltage	24 V DC, Typ 10 A, Max 13A			
Warm-up Time	10 min for temperature stabilization			
Temperatur Range (environment)	15 - 35°C			
Relative Humidity	8 - 95 % (not condensing)			
Cooling Requirements	fan cooling			
Cooling Air Temperature Range	10°C - 24°C			
Cooling Air Flow	Min.: 200 L/min			
Power Consumption	Typ.: 120 W; max.: 150 W			
Dimensions				
Laser Head	244mm x 164mm x 119mm			
Weigth	<8.5kg			

## Mechanical Specifications

