

AVLAS... Pulse Laser

Swan

Eye Safe Wavelength – 1.64 μm

High Pulse Energy – 1.0 - 3.0 mJ

High Rep. Rate – PRR 0.2 - 10.0 kHz

Long Pulse – 300 - 500 nsec



Applications

- » Eye-Safe Lidar
- » Eye-Safe Material Processing
- » Security / Detection
- » Laser & OPO Pumping
- » Test & Measurement
- » Laser Spectroscopy
- » Research & Development

Features

- » Pulse Operation in Eye Safe 1.5-1.8 μm Band
- » High Repetition Rate with High Pulse Energy
- » High Reliability Fibre / Solid State System
- » High Stability, High Beam Quality TEM₀₀
- » Designed for Rugged Application

Options

- » Fibre Coupled
- » Fine Line Width
- » SLM Operation
- » Tunability

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Specifications subject to change without notice

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Specifications

Optical	AVLAS 1000	AVLAS 3000	Condition	Units
Pulse Energy	1.0	3.0	Min @ 200Hz	mJ
Wavelength	1.64	1.64	Typ	µm
Pulse Repetition Rate	200 - 10,000	200 - 10,000		Hz
Pulse Width	300-500	200-400	FWHM	nsec
Spatial Mode	TEM₀₀	TEM₀₀		
Line Width	1.0	1.0	Max, FWHM	nm
Beam Diameter	0.8	0.8	Typ @ Output	mm
Beam Divergence	1.5	1.5	Max @ Output	mrad
Output Power Stability	+/-5	+/-5	Over 12 hr Period	%
Warm-Up Time	1.0	1.0	Max	Minute
Electrical / Mechanical				
Operating Voltage	110/240	110/240		VAC
Power Consumption	750	1200	Max	W
Electronics / Control Dimensions	3U 19" Rack	6U 19" Rack		
Laser Head Dimensions	200X230X110	330X230X110	(L X W X H)	mm
Options				
Fiber Coupled	Optical Fiber MM , with Jacketing & Connector Options			
Fine Line Width	Option for Line Width to 100 MHz FWHM			
SLM	Option for SLM			
Tunability	Tunable over 5 nm Band			

Safety Notice

This Product is intended for incorporation into an OEM Laser System and as such is not compliant to IEC 60825 without further additions or modifications by the user. With appropriate lensing and other modifications this Laser may be incorporated into a System for possible Classification by the user to Class 1M, IEC 60825-1.

In no event will Swan International be liable for any damage arising in connection with the use of this Laser.

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