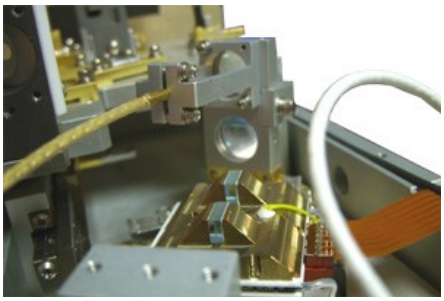
AVIA 266nm Solid State Q-Switched UV Laser
Coherent Avia 266-3, Avia 266-1500, Avia 266-3000

Laser Innovations offers sales, service and support for your Coherent AVIA 266nm Laser System. We service all of the 266nm AVIA Laser Systems as well as the 355nm and 532nm AVIA Laser systems. Avia 266-1500 and Avia 266-3000 have been *discontinued* by Coherent. Laser Innovations continues to service these for you.



Specifications:

AVIA LASER

	Avia 266-3[1]	Avia 266-1500	Avia 266-3000
Wavelength		266 nm	
Output Power	3W @ 30 kHz	1.5W @ 20 kHz	> 3.0W @ 30 kHz
Output Power Stability	< ±2% 1σ (average over 8 hours)		

Pulse

Repetition Rate Range Nominal Optimized	Single shot to 300 kHz 30 kHz	10 kHz to 100 kHz	Single shot to 100 kHz
Pulse Width	< 20 ns up to 30 kHz	< 30 ns up to 60 kHz	< 25 ns up to 30 kHz
Pulse-to-Pulse Energy Stability	< 5% RMS 1σ @ 30 kHz	< 5% RMS 1σ up to 30 kHz	

Beam

Divergence, Full Angle[3]	< 0.3 mrad		
Spatial Mode[3]	TEM_{00} (M^2 < 1.3)		
Pointing Stability/Drift[2]	< 25 µrad/°C		
Polarization Ratio[3]	> 100:1 Horizontal		
$1/e^2$ Beam Diameter[3]	2 mm ±10%		
Circularity	> 85%		
Bore-sight Accuracy (ref. mounting features on head)	±0.5 mm & ±5 mrad		
Beam Exit Location (XY ref. bottom/left baseplate)	4.0 x 5.0 in (101.6 x 127.0 mm)		4.0 x 4.0 in (101.6 x 101.6 mm)

Operating Conditions

Warm-up time (typical) Stand-By Cold Start	< 15 min. < 40 min.	< 10 min.	
Ambient Temperature During operation Power off, short term	+10°C to +30°C -25°C to +65°C	+10°C to +30°C	+10°C to +35°C
Relative Humidity (non-condensing)	10 to 80%		
Cooling - Power Supply	Air-Cooled	Closed-Loop Chiller	
Cooling - Laser Head Flow Rate, recommended Temperature, recommended	Water-cooled 1.0 to 2.0 gal/min (3.8 to 7.6 l/min) 20°C	Closed-Loop Chiller	

Heat Load (max) Power Supply Laser Head	 650W 300W		

Electrical

Voltage (auto-ranging) Single-Phase, 3-Wire	100 to 240 VAC	96 to 264 VAC	90 to 264 VAC
Frequency (auto-ranging)	50 to 60 Hz	47 to 63 Hz	
Power Consumption	600 to 1200 W	700 to 1300 W	

Mechanical

Weight Laser Head Power Supply	 71 lb (33 kg) 85 lb (39 kg)	 63 lb (29 kg) 91 lb (42 kg)
Umbilical Length Diameter Bend Radius, min.	 10 ft (3 m) 5 in (12.7 cm)	
Dimensions, (LxWxH) Laser Head (w/umbilical) Power Supply	(Approximate for shipping) 45 x 8 x 9 in (115 x 21 x 23 cm) 23 x 20 x 11 in (59 x 51 x 28 cm)	(Approximate for shipping) 45 x 8 x 7 in (115 x 21 x 18 cm) 19 x 20 x 11 in (49 x 51 x 28 cm)

[1] Measurements taken at maximum output power and 30 kHz, unless stated otherwise.
[2] Reference to base plate temperature.
[3] Applies over Repetition Rate Range 25 to 40 kHz for Avia 266-3.

Specifications are for reference only and do not constitute warranty specifications on serviced lasers by Laser Innovations.

Laser Innovations; 1150 E. Main Street; Santa Paula, CA 93060
Ph (805) 933-0015 Fax (805) 933-0042
Information@LaserInnovations.com
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