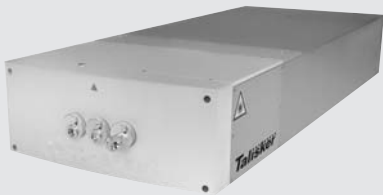


Talisker Ultra 532-8

Picosecond Industrial Laser

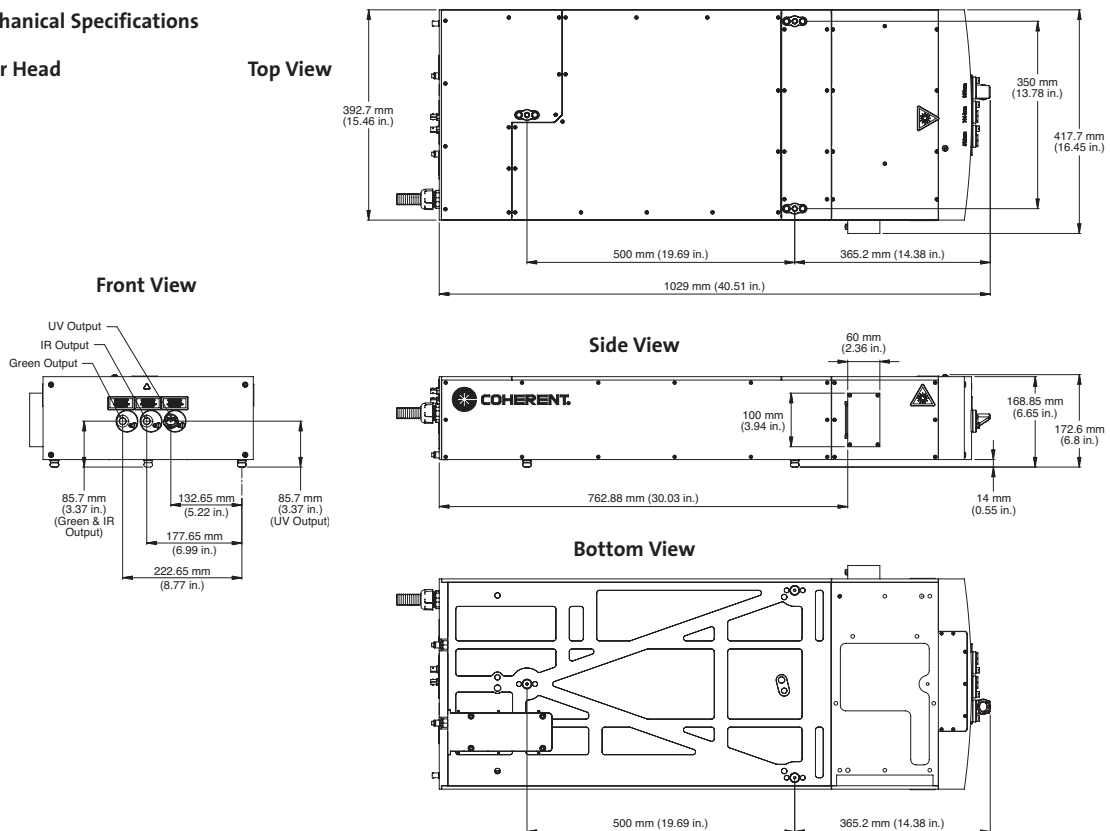


Features

- Fiber free-space hybrid technology
- Excellent beam quality ($M^2 < 1.3$)
- Parallel beam exit ports for 1064 nm, and 532 nm
- Excellent pulse stability, no first pulse suppression required
- Shock, vibration, and thermal cycling tests for every laser
- Smart power supply with Ethernet, USB, and RS-232 control
- PermAlign™ solder-bonded optics technology
- Ultra-long-life AAA™ (Aluminum-free Active Area) laser diode material

Mechanical Specifications

Laser Head



Superior Reliability & Performance

Talisker™ Ultra 532-8

Picosecond Industrial Laser

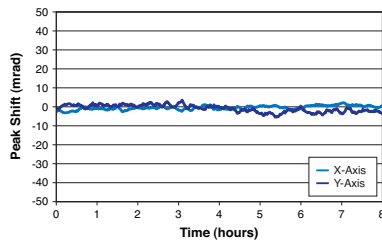
System Specifications¹

Output Wavelength (nm)	1064	532
Average Output Power (W)	>16	>8
Repetition Rate Range (kHz)	Single-Shot to 200 with burst control	
Operational ²		
Optimized	200	
Pulse Width (ps)	<15	
Pulse-to-Pulse Stability (%) (rms 1 σ)	<2	<2
Average Power Stability (%) (over 8 hours)	<2	
Polarization Ratio	>100:1 horizontal	>100:1 horizontal
Spatial Mode	TEM ₀₀ (M ² <1.3)	
1/e ² Beam Diameter (mm)	2.0 ±0.5	1.4 ±0.3
Beam Circularity (%)	>85	
Warm-Up Time (typical)	<60 minutes from cold start	
Bore-Sight Accuracy		
Lateral	<1 mm from window center	
Angular	±5 mrad	
Single-Phase Operating Voltage (VAC)	100 to 240 (auto ranging)	
Laser Power Consumption	50 to 60 Hz (auto ranging) 1.3 kW maximum	
Cooling Requirements		
Laser Head	Closed-loop water recirculator (water/air or water/water)	
Power Supply	Air-cooled	
Ambient Temperature Range (°C)		
Operating	15 to 30 (±1)	
Non-Operating	-20 to 50	
Relative Humidity (%)	10 to 80 (non-condensing)	
Umbilical Length	3m (9.8 ft.)	
Weight		
Laser Head	75 kg (165.3 lbs.)	
Power Supply	30 kg (66.1 lbs.)	

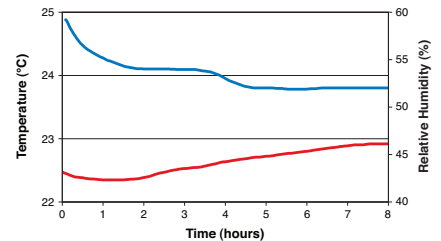
¹ All specifications at 200 kHz repetition rate.

² Using integrated AOM.

Talisker Ultra 532-8 8 Hour Pointing Test: X-Axis and Y-Axis



Talisker Ultra 532-8 8 Hour Pointing Test: Temperature and % Relative Humidity



Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all Talisker lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



www.Coherent.com

Coherent, Inc.
5100 Patrick Henry Drive
Santa Clara, CA 95054
phone (800) 527-3786
(408) 764-4983
fax (408) 764-4646
e-mail tech.sales@Coherent.com

Benelux +31 (30) 280 6060
China +86 (10) 8215 3600
France +33 (0)1 8038 1000
Germany +49 (6071) 968 333
Italy +39 (02) 31 03 951
Japan +81 (3) 5635 8700
Korea +82 (2) 460 7900
UK +44 (1353) 658 833

