

Talisker Ultra 1064-16

Picosecond Industrial Laser

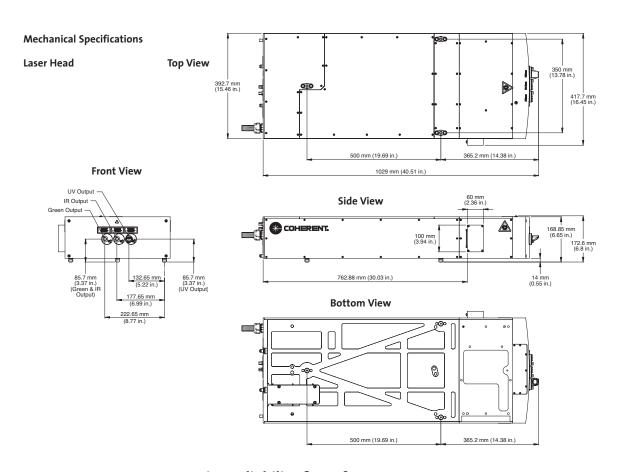


Features

- Fiber free-space hybrid technology
- Excellent beam quality (M² <1.3)
- 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



Superior Reliability & Performance

Talisker™ Ultra 1064-16

Picosecond Industrial Laser

System Specifications¹

Output Wavelength (nm)	1064
Average Output Power (W)	>16
Repetition Rate Range (kHz)	
Operational ²	Single-Shot to 200 with burst control
Optimized	200
Pulse Width (ps)	<15
Pulse-to-Pulse Stability (%)(rms 1σ)	<2
Average Power Stability (%)(over 8 hours)	<2
Polarization Ratio	>100:1 horizontal
Spatial Mode	TEM ₀₀ (M ² <1.3)
1/e² Beam Diameter (mm)	2.0 ±0.5
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)
	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.	

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.



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

Benelux +31 (30) 280 6060 China +86 (10) 8215 3600 +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



² Using integrated AOM.