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COHERENT®

Talisker Ultra 355-4

Picosecond Industrial Laser



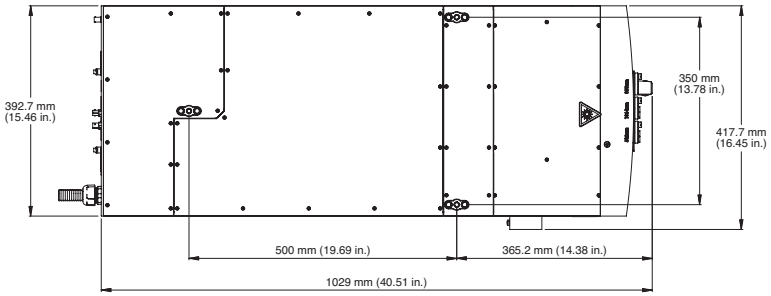
Features

- Fiber free-space hybrid technology
- Excellent beam quality (M^2 <1.3)
- Parallel beam exit ports for 1064 nm, 532 nm and 355 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

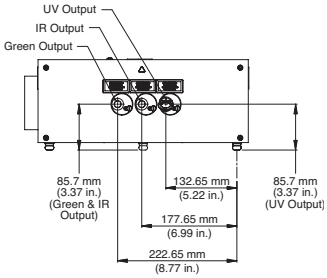
Mechanical Specifications

Laser Head

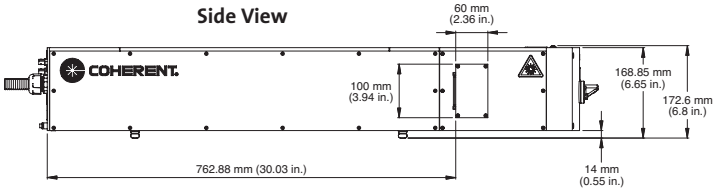
Top View



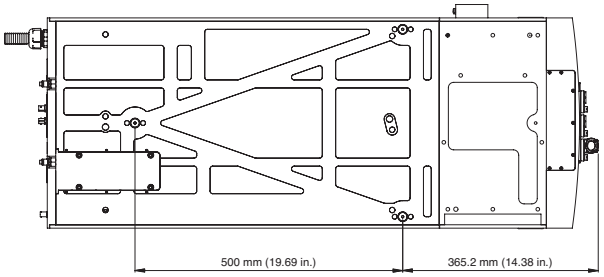
Front View



Side View



Bottom View



Superior Reliability & Performance

Talisker™ Ultra 355-4

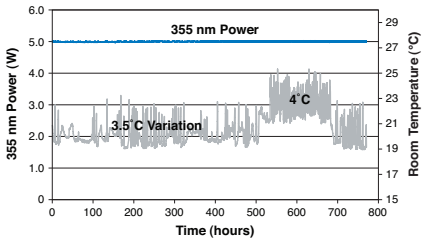
Picosecond Industrial Laser

System Specifications[1]

Output Wavelength (nm)	1064	532	355
Average Output Power (W)	>16	>8	>4
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	<2	<5
Average Power Stability (%)(over 8 hours)		<2	
Polarization Ratio	>100:1 horizontal	>100:1 horizontal	>100:1 vertical
Spatial Mode		TEM_{00} (M^2 <1.3)	
1/e^2 Beam Diameter (mm)	2.0 ±0.5	1.4 ±0.3	1.3 ±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 355-4
30 Day Temperature
Stress Test



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.

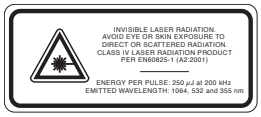
Coherent offers a limited warranty for all Talisker lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.

COHERENT®

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