



Paladin Compact 355-2000/4000

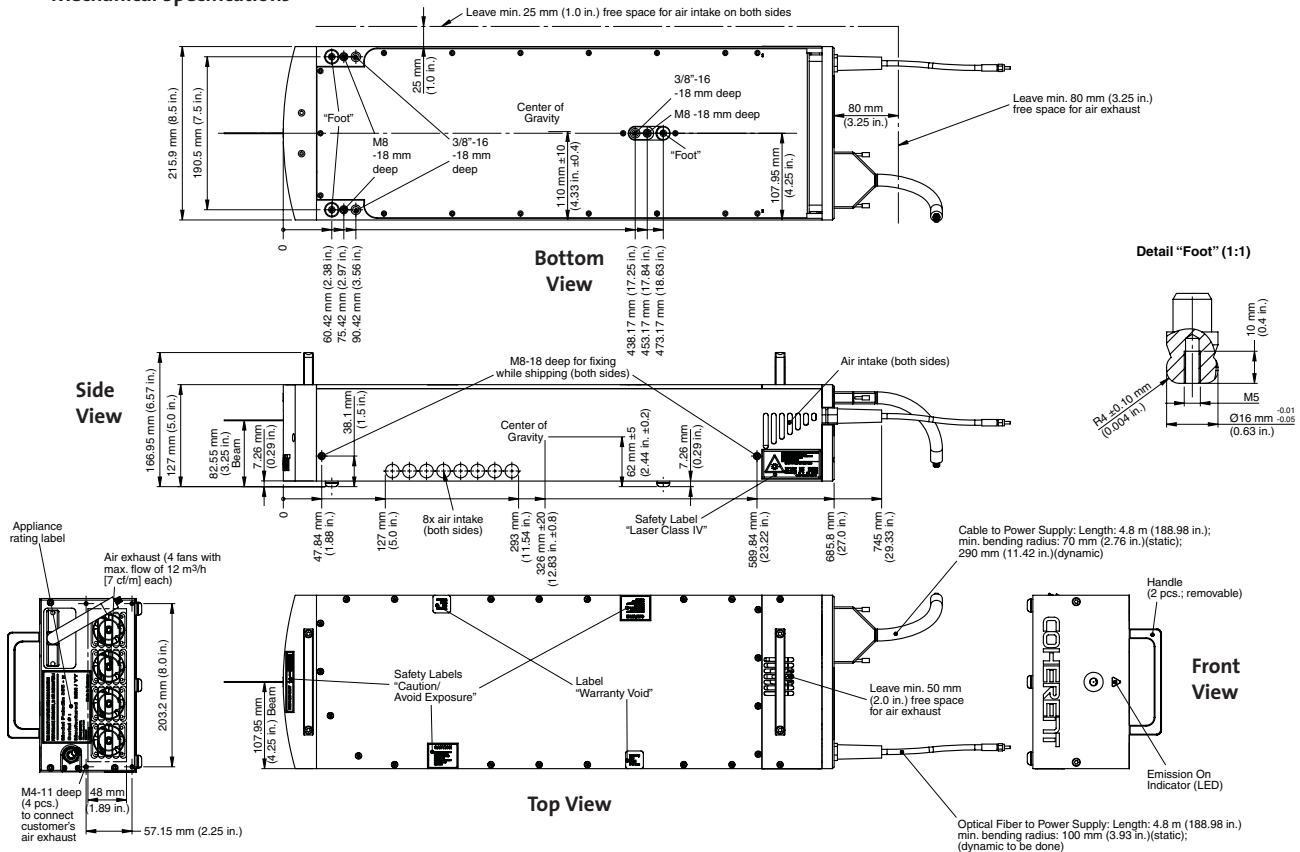
Air-Cooled, Modelocked, UV Laser

Features

- PermAlign™ solder-bonded optics technology for ultra-robust operation in tough industrial environments
- Cleanroom-built and hermetically sealed for long-term reliability in commercial applications
- Aluminum-free Active Area (AAA™) diode material for industry-leading lifetime
- Smart power supply for complete hands-free operation
- Compact and modular laser design for easy integration
- Highest efficiency: only one pump diode



Mechanical Specifications



Superior Reliability & Performance

Paladin™ Compact 355-2000/4000

Air-Cooled, Modelocked, UV Laser

System Specifications

Wavelength (nm)	355
Output Power (W)	
Paladin Compact 355-2000 Air-Cooled	>2
Paladin Compact 355-4000 Air-Cooled	>4
Repetition Rate (MHz)	120 ±2
Pulse Length (ps)	>15 @ 1064 nm
Spatial Mode	TEM ₀₀
M ²	<1.2
Beam Waist Diameter (mm)(1/e ²)	1 ±10%
Beam Divergence (μrad)(full angle)	<550
Beam Ellipticity	0.9 to 1.1
Pointing Stability after Warm-Up (μrad/°C)	<25
Polarization	Linear, >100:1, vertical
Noise (10 Hz to 2 MHz)	<1% (RMS)
Long-Term Power Stability	<±2%
Maximum Warm-Up Time	<30 min. from standby <1 hr. from cold start
Static Alignment Tolerances ¹	
Beam Position (mm)	<±0.5
Beam Angle (mrad)	<±2.5

Utility and Environmental Requirements

Operating Voltage (VAC)	90 to 230, 50 to 60 Hz
Power Consumption (VA)	1000 max.
Ambient Temperature Range (°C)	15 to 35
Dimensions (W x H x L)	
Laser Head	216 x 127 x 686 mm (8.5 x 5.0 x 27.0 in.)
Power Supply	482 x 177 x 505 mm (19.0 x 7.0 x 19.9 in.)
Pump Fiber Length	4.5m (15 ft.)
Weight	
Laser Head	25 kg (55 lbs.)
Power Supply	28 kg (62 lbs.)

¹ Relative to laser mount.

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 Paladin 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

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