



Sapphire Driver Unit

Operate, Control and Monitor Sapphire Laser Heads

The Sapphire Driver Unit provides controller and power supply in a wall plug-ready box, featuring a standby/laser ON switch and remote control options via Analog, RS-232 and USB interface.

The Driver Unit enables and simplifies stand-alone applications: it can operate, control and monitor all laser heads of the Sapphire line: Sapphire LP, Sapphire FP, Sapphire SF. A Sapphire CDRH laser head and a Sapphire Driver Unit when properly installed will be CDRH compliant.

FEATURES

- One-box wall plug controller and power supply
- Enables stand-alone applications (CDRH Compliant)
- Standby/Laser ON key switch
- Remote interlock
- Remote control option via Analog, RS-232, or USB interface
- Laser power adjustment and graphic display (optional)
- Front panel control with laser power adjustment and status display (optional)
- Status LEDs

SAPPHIRE DRIVER UNIT FOR:

- Sapphire LP
- Sapphire FP
- Sapphire SF



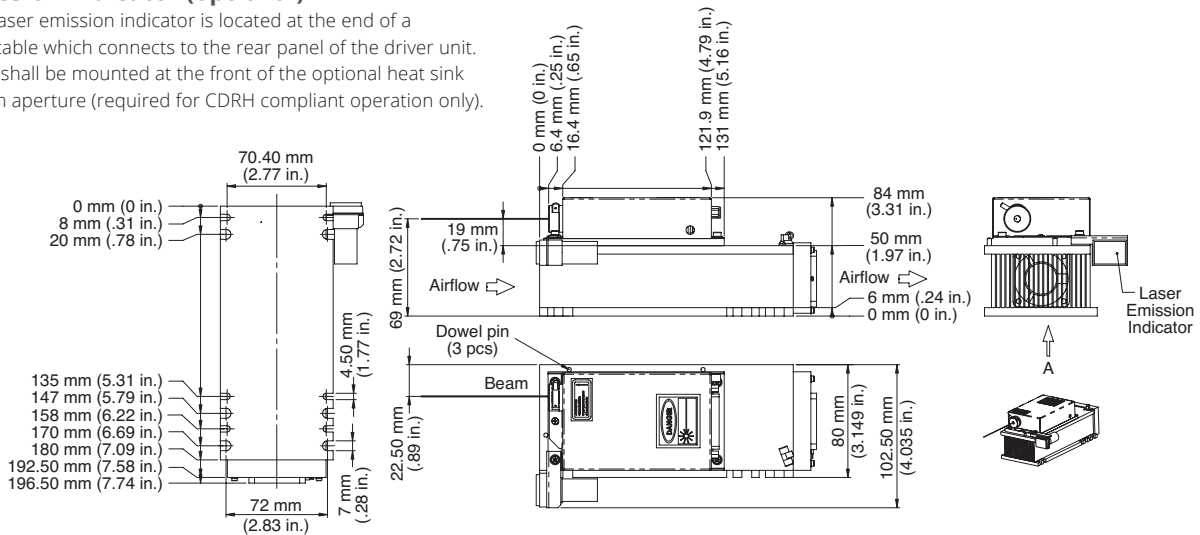
UTILITY AND ENVIRONMENTAL REQUIREMENTS	Sapphire Driver Unit
Power Consumption (VA)	<140
Operating Voltage	88 to 264 VAC, 50/60 Hz
Ambient Temperature Operating Conditions Non-Operating Condition	10 to 40°C (50 to 104°F), non-condensing -30 to 60°C (-22 to 140°F)
Dimensions ¹ (L x W x H)	196 X 164 X 99.5 mm (7.72 x 6.46 x 3.92 in.)
Cable Length (Head to Controller)	2 m (6.56 ft.), optional 5 m (16.4 ft.)
Weight	1.85 kg (4.08 lbs.)
MEASUREMENT TOOLS	
Meter	FieldMax™-TO
Sensor	PS10Q

¹ Please consider additional space for the front panel switches and the cable connections on the rear panel.

MECHANICAL SPECIFICATIONS

Laser Emission Indicator (optional)

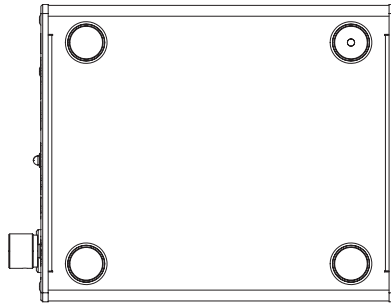
The optional laser emission indicator is located at the end of a 5 m (16.4 ft.) cable which connects to the rear panel of the driver unit. This indicator shall be mounted at the front of the optional heat sink near the beam aperture (required for CDRH compliant operation only).



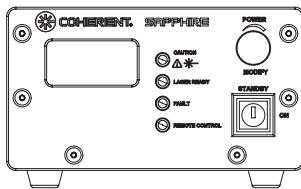
MECHANICAL SPECIFICATIONS

Laser Head

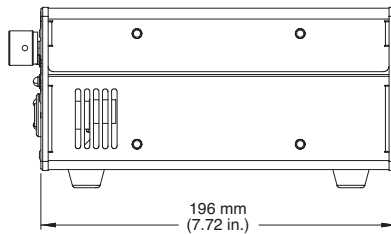
Top View



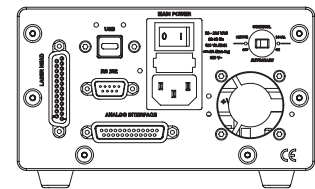
Front View
(Display Version)



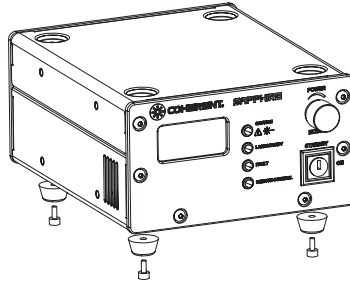
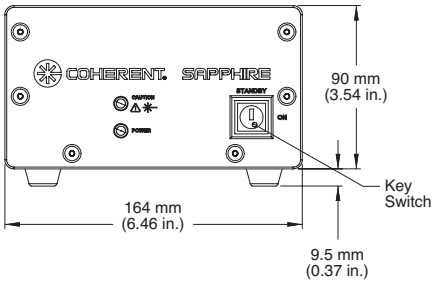
Side View



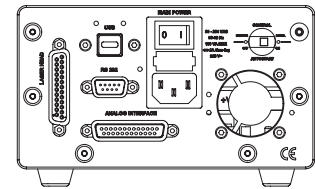
Rear View
(Display Version)



Front View
(Non-Display Version)

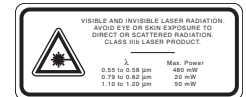
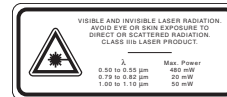
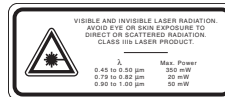
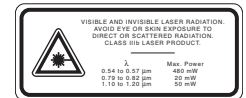
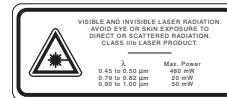
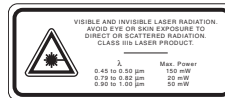


Rear View
(Non-Display Version)



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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 Sapphire 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. Printed in the U.S.A. MC-022-14-0M0117Rev.A Copyright ©2017 Coherent, Inc.

U.S. Patent No. 5,954,978
U.S. Patent No. 5,991,318
U.S. Patent No. 6,097,742
U.S. Patent No. 6,167,068
U.S. Patent No. 6,370,168

