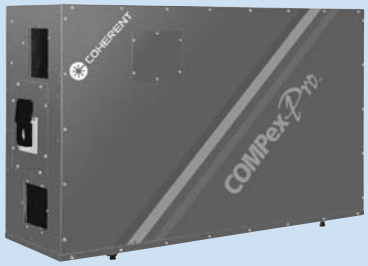
COMPexPro

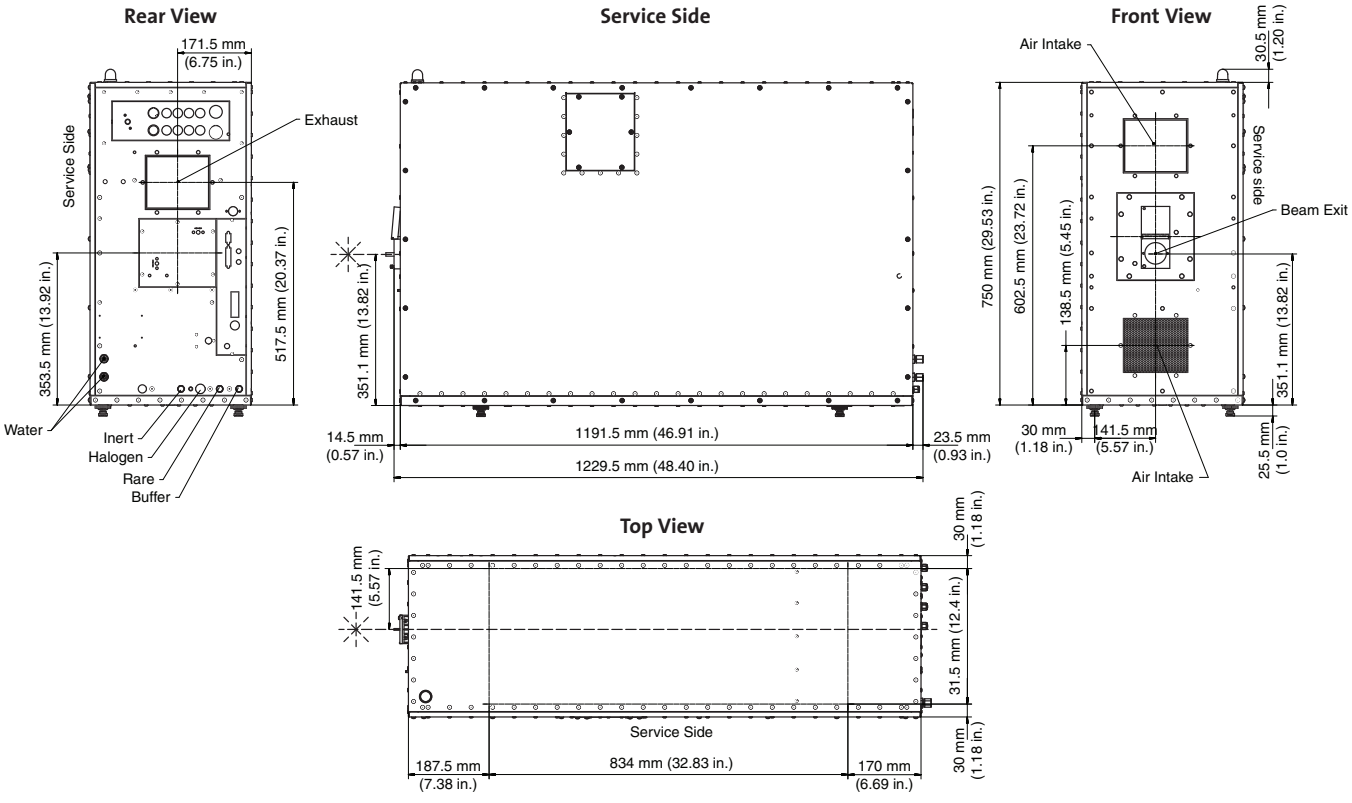
High-Pulse-Energy Excimer Lasers



Features

- Energy monitor with output stabilization
- Unique smooth ceramic preionization for unmatched pulse-to-pulse stability
- Advanced internal gas purification system for extended operation of laser gas and tube windows
- Single-phase operation
- NovaTube® metal-ceramic tube technology
- Magnetic-Assist (MA) protection for extended thyratron lifetime
- Small footprint
- Service access from one side
- Air-cooled versions

Mechanical Specifications



Superior Reliability & Performance

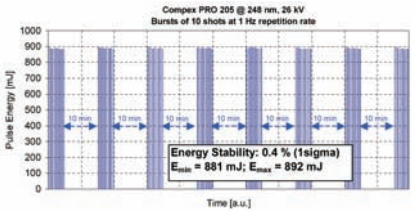
COMPexPro™

High-Pulse-Energy Excimer Lasers

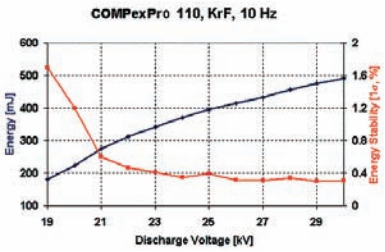
System Specifications[1]

	Wavelength (nm)	COMPexPro 50	COMPexPro 102	COMPexPro 110	COMPexPro 201	COMPexPro 205
Pulse Energy[1] (mJ)	193	100	200	200	400	400
	248	150	400	400	700	700
	308	–	250	250	500	500
	351	–	200	200	300	300
Max. Rep. Rate (Hz)		50	20	100	10	50
Average Power[2] (W)	193	4	4	12	4	15
	248	7	7	30	5	30
	308	–	5	16	3.5	20
	351	–	4	12	3	15
Energy Stability[4] (1 sigma) (%)		1	1	1	1	1
Pulse Duration[3] (ns)		20	20	20	25	25
Beam Dimensions[3] (V x H) (mm²)		14 x 5	24 x 10	24 x 10	24 x 10	24 x 10
Beam Divergence[3] (V x H) (mrad²)		2 x 1	3 x 1	3 x 1	3 x 1	3 x 1
Dimensions (L x W x H)		1282 x 375 x 793 mm³ (51 x 15 x 31 in.³)			1682 x 375 x 793 mm³ (67 x 15 x 31 in.³)	
Weight		275 kg (605 lbs.)			350 kg (772 lbs.)	
Electrical		230V, ±10%, 16A, 50/60 Hz switchable, 1-phase 115V, ±10%, 25A, 50/60 Hz switchable, 1-phase				
Water Cooling[5]		2 to 3 l/min. (0.5 to 0.8 gal./min.), 15 to 20°C, connection: 1/2"				

[1] Measured at low repetition rate.
[2] Measured at max. repetition rate.
[3] Typical, FWHM.
[4] Specified at 248 nm.
[5] Only required above 20 Hz repetition rate.



Energy stability of COMPexPro 201 at 248 nm under typical PLD operating conditions



COMPexPro 110 pulse energy (blue) and output stability (red) over dynamic operating range

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.

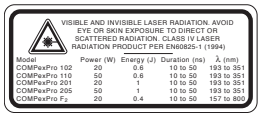
Coherent offers a limited warranty for all COMPexPro lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.

COHERENT®

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) 6280 0209
France +33 (0)1 6985 5145
Germany +49 (6071) 968 333
Italy +39 (02) 34 530 214
Japan +81 (3) 5635 8700
Korea +82 (2) 460 7900
UK +44 (1353) 658 833



CE

ISO 9001:2000 Registered

Printed in the U.S.A. MC-006-05-0M0710Rev.C