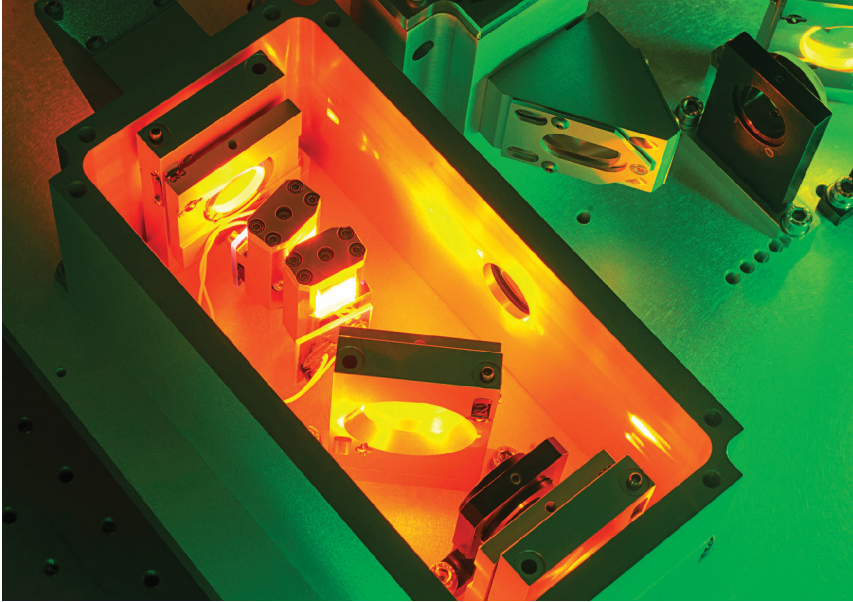


# Horizon™

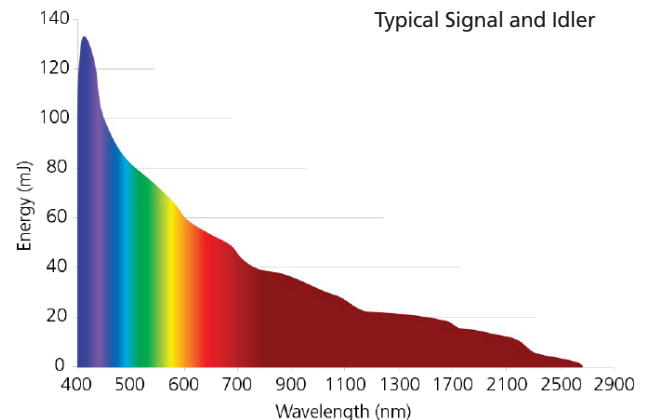
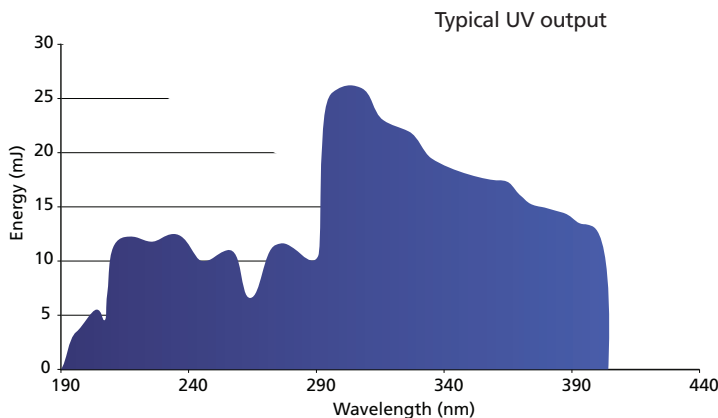


## Horizon Series OPO

The new Horizon mid-band OPO offers unmatched performance. Its intelligently integrated optical design delivers the highest output powers available over an extensive tuning range (192-2750nm). Fully automated with precision scanning for true hands-free operation, Horizon is a robust system delivering optimal performance – all day, every day.

With the highest conversion efficiency available from any mid-band OPO, Horizon gives you unprecedented advantages: outstanding beam quality, excellent beam pointing stability and the option for wavelength access extended into the vacuum ultraviolet. With crystals and Pellin Broca prisms mounted directly to ultra-high resolution stepper motors, Horizon has been engineered for optimal stability and tuning reproducibility at all wavelengths.

## Horizon performance with PL 8000 Pump



Fully Integrated OPO  
Fully Integrated OPO  
Fully Integrated OPO  
Fully Integrated OPO

### Features and Benefits

**Extended tunability from 192 nm to 2750 nm**

**More than twice the energy**

**Linewidths down to  $< 3 \text{ cm}^{-1}$**

**Excellent beam quality and low divergence in both axes**

**Fully automated for precision scanning and optimal performance - Windows 7 platform**

**All encompassing optical design integrated into a single monolithic platform for ease of use and convenience**

**Coated and temperature stabilized crystals enclosed in a secure housing for optimal lifetime and reliability**

**Continuum®**  
The High Energy Laser Company™

# Horizon Energy Specifications

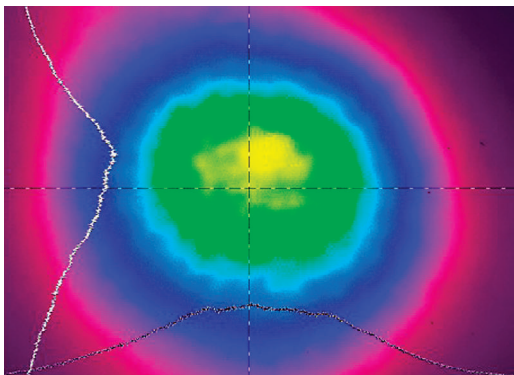
Tuning Range* (nm)		400-2750	192-400
Pump Laser		Energy at Peak (mJ) 425nm	Energy at Peak (mJ) 325nm
Pump Model	OPO Pump Energy (mJ) at 355nm		
<b>Horizon I pumped with 200mJ or less</b>			
SL I-10	100	30	6
SL II-10	160	50	10
<b>Horizon II pumped with 200mJ or more</b>			
SL EX	220	80	15
PL 8000	290	110	20

# Horizon Specifications

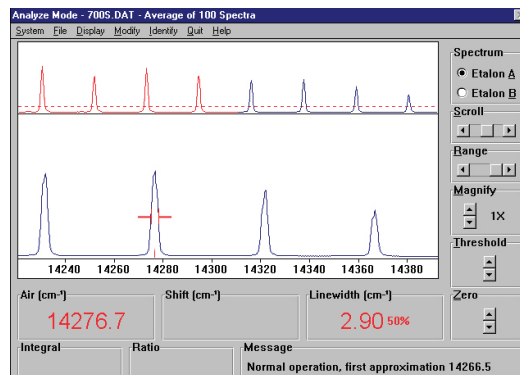
Description	SL I, II, EX	PL 8000
Pulsewidth (nsec)	3-5	3-7
Pointing Stability ( $\mu$ rad)	$<\pm 100$	$<\pm 100$
Linewidth ( $\text{cm}^{-1}$ )		
Seeded		2-6
Unseeded		3-7
Energy Stability (% , 99% of shots)		$<\pm 10$
Divergence (mrad, FWHM)		$<2$ (both axes)
Beam Diameter (mm, near field)		4-7
Beam Roundness (% , near field)		$>85$
Polarization (%)		
Signal Horizontal		$>99$
Idler Horizontal		$>99$

Notes:

As a part of our continuous improvement program, all specifications are subject to change without notice.



Horizon Signal beam quality, near field  
430nm at 1.5m



Horizon linewidth scan

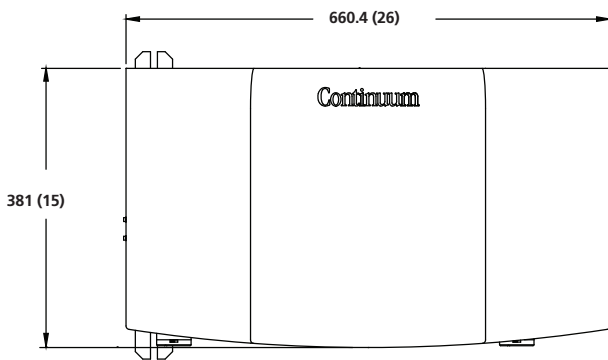
# Horizon Package Dimensions

Size	LxWxH	660.4 x 381 x 346.7 mm (26 x 15 x 13.65") H $\pm$ 12 mm/0.5"
Weight		30.8 kg (68 lbs)

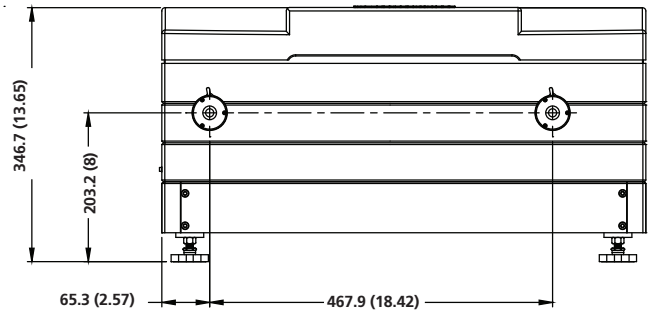
## Horizon Physical Layout

All dimensions are in mm (inches)

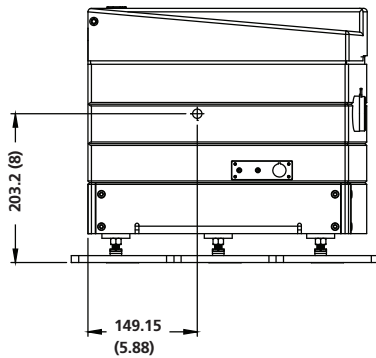
Top View



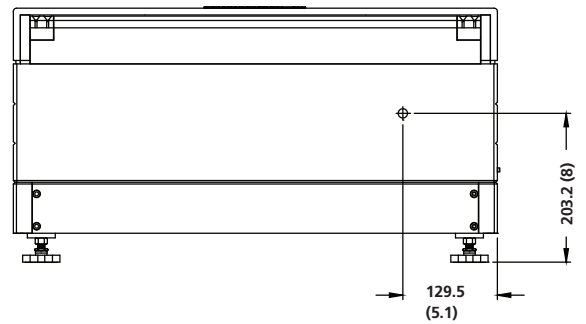
Output View



Side View



Back View



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992-0092, Rev. A 08/12



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