

StingRay and BioRay

With a compact modular design measuring only 19 mm in diameter and using the industries' premier laser diodes, the StingRay delivers best-in-class performance. High-quality glass optics and sophisticated drive electronics deliver the power and control to your application to improve signal-to-noise and measurement speed.

StingRay is the highest-performing top-hat-profile laser available that comes in a variety of fan angles to create the line you need for measurement and profiling applications. Offering the same focus adjustment as the BioRay, the StingRay allows the user to optimize the focus location for the best measurement resolution.

BioRay is a Stingray with an included Heat Sink and Mounting Plate for Life Science applications with an elliptical beam output and a user-adjustable beam divergence (adjustable focus).

With optional RS-232 control the laser power is adjustable as well as onboard diagnostics for operating hours, diode current, output power, temperature, and more.

Select StingRay and BioRay models also include the μ Focus and Fiber-Ready (FR) versions.

FEATURES & BENEFITS

- High Signal-to-Noise with superior Contained Power in the line
- 405 nm to 830 nm
- Power up to 200 mW
- User adjustable focus
- Pointing stability $<10 \mu\text{rad}/^\circ\text{C}$
- Analog or digital modulation
- Microprocessor controlled
- Onboard diagnostics monitor
- RS-232 control option
- Power supply range: 5 to 24 VDC
- ESD protection, over-temperature protection, and reverse polarity protection
- Optional fiber-ready version

APPLICATIONS

- Microscopy
- Cytometry
- Medical Imaging and Instrumentation
- Genetics
- High Throughput Screening
- Machine Vision
- 3D Profiling
- Industrial



LASER OUTPUT SPECIFICATIONS

Spatial Mode	TEM ₀₀ (Single Transverse Electric Mode)
Beam Quality, M ² (ModeMaster with 90/10 Clip Level)	<1.5
Pointing Stability over Temperature (μrad/°C)	<10
Beam Angle (boresight) (mrad)	<3
RMS Noise (%) (20 Hz to 20 MHz)	<0.5
Peak-to-Peak Noise (%) (20 Hz to 20 MHz)	<1
Long Term Power Stability (%) (over 8 hours and ±3°C)	<2
Warm-up Time (minutes)	<5

LASER ELECTRICAL SPECIFICATIONS

Operating Voltage (V DC)	+5 to +24 (recommend 12 VDC for best efficiency) ¹
Operating Current (mA) (maximum at 25°C)	200
Power-on Delay (seconds) (if enabled)	5
Power Consumption (W)	<5
ESD Protection	EN61326-1 (8 kV Air Discharge, 4 kV Contact Discharge)

LASER MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-10 to 50°C (except 450 nm, 520 nm, and 525 nm with 10°C to 40°C)
Non-Operating (storage) Temperature	-20 to 60°C
Weight (grams) (standard model)	<70
Diameter (mm)	19.05
Material	Aluminum 6061 T1

LASER WIRING

Signal	Wire Color	Description
V _{in}	Red	Power Supply input for +5 to +24 Volts DC, Recommend 12 VDC ¹
V _{in} Ground	Black	Power Supply Ground
Output Signal for Over-Temperature or Over-Current	Green	Open Collector Output, 30 Volts DC maximum, 100 ma current load maximum ²
V _{mod}	Blue	Modulation Input, 5 kOhm input impedance, 5 Volts maximum
V _{mod} Ground	Red/Black	Modulation Ground
RS-232 Transmit	Orange	RS-232 Transmit for models with RS-232 option installed
RS-232 Receive	White	RS-232 Receive for models with RS-232 option installed
RS-232 Ground	White/Black	RS-232 Signal Ground for models with RS-232 option installed

¹ Minimum operating voltage for lasers between 400 nm to 525 nm is 6V DC.

² Not available on Fast Digital Modulation (FT or RFT models).

CHOOSE YOUR LASER

The StingRay and BioRay products come in a variety of wavelength, output power, and configuration options.

Use the following simple ten-step selection guide to choose the ideal laser and features for your application. Refer to the last page for our most popular versions, their part numbers, and pricing available for immediate delivery.

Configure your laser with these ten steps:

STEP 1: Package

STEP 2: Wavelength

STEP 3: Output Power

STEP 4: Output Power Control Mode

STEP 5: Beam Shape

STEP 6: Focus Distance

STEP 7: Communication Option (RS-232)

STEP 8: Cable Length/Connector


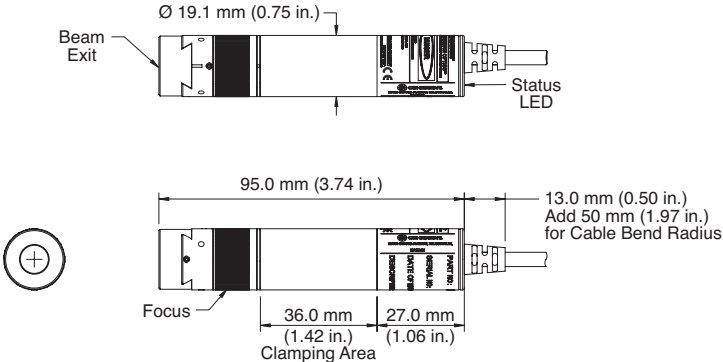

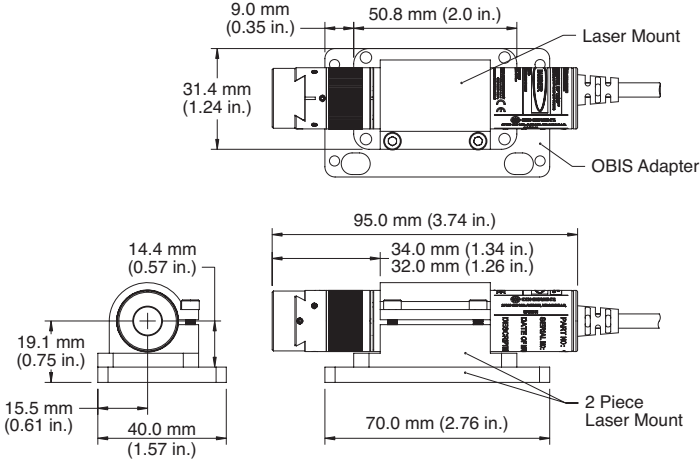
STEP 9: Data Report

STEP 10: Power-On Delay




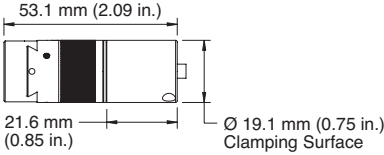
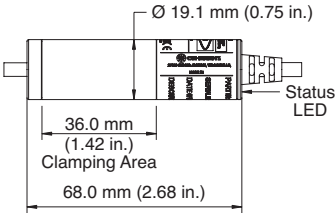

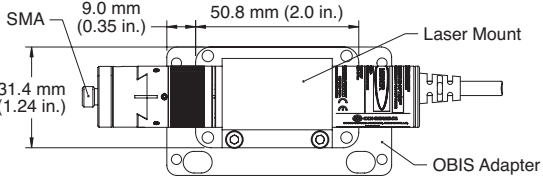
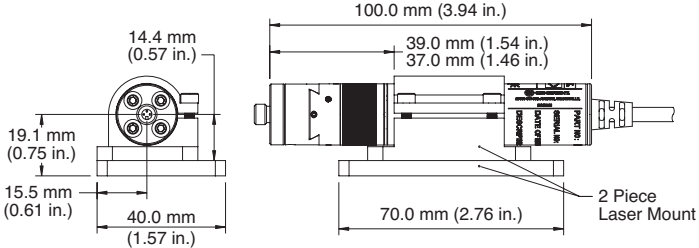
STEP 1:

Choose your package with optional separated electronics, mounts, and/or fiber attachment.
Choose only one option from the following selections.

Standard StingRay	Mechanical Specifications ¹
<div><input type="checkbox"/></div> 	
StingRay in Mount, BioRay	Mechanical Specifications ¹
<div><input type="checkbox"/></div> 	

¹ For more dimension details and CAD drawings, please visit www.coherent.com

STEP 1 (continued):

<div>Separate Driver, Compact Laser Head</div> <div>(select cable length between laser head and driver)</div> <div><input type="checkbox"/> 75 mm <input type="checkbox"/> 150 mm <input type="checkbox"/> 250 mm <input type="checkbox"/> 500 mm</div> <div></div>	<div>Mechanical Specifications¹</div> <div><div>Laser Head</div><div></div></div> <div><div>Driver</div><div></div></div>
<div>BioRay FR (Fiber-Ready with SMA)</div> <div><input type="checkbox"/></div> <div></div>	<div>Mechanical Specifications¹</div> <div><div></div><div></div></div>

¹ For more dimension details and CAD drawings, please visit www.coherent.com

STEP 2:

Choose your wavelength.

Choose only one of the following selections.

Wavelength Choices ¹ (nm)	405	450	488	520	525	639	640	655	660	685	785	830
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

¹ BioRay FR available in 405 nm, 450 nm, 488 nm and 640 nm. Laser-to-laser wavelength tolerance of 405 nm is ± 5 nm, 450 nm ± 10 nm, 488 nm ± 10 nm, 520 nm is 510 nm to 530 nm, 525 nm is 520 nm to 530 nm, 639 nm is 635 nm to 648 nm, 640 nm is ± 6 nm, 647 nm is ± 5 nm, 655 nm is 650 nm to 665 nm, 660 nm is ± 5 nm, 685 ± 15 nm, 785 nm is ± 19 nm, 830 nm is 815 nm to 840 nm.

STEP 3:

Choose your power.

Choose only one of the following selections.

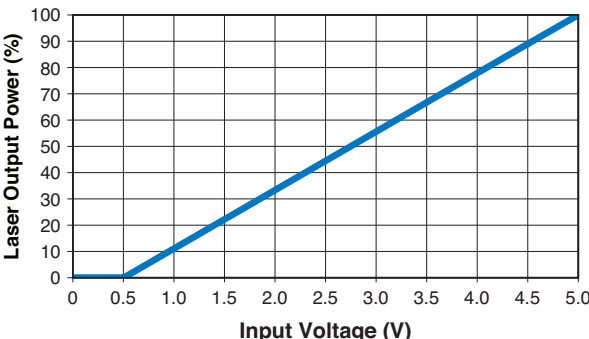
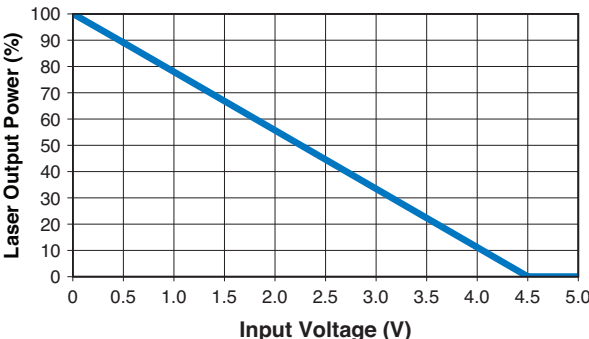
Wavelength Choices ¹ (nm)	405	450	488	520	525	639	640	655	660	685	785	830
Output Power Available (mW)												
1						<input type="checkbox"/>		<input type="checkbox"/>				
5				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>				
10		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>			
20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
25					<input type="checkbox"/>							
35	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75					<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>
90											<input type="checkbox"/>	
100	<input type="checkbox"/>								<input type="checkbox"/>			<input type="checkbox"/>
150												<input type="checkbox"/>
200												<input type="checkbox"/>

¹ BioRay FR (Fiber-Ready) only available in 405 nm 50 mW, 450 nm 50 mW, 488 nm 20 mW and 640 nm 40 mW. BioRay FR offers >70% coupling efficiency with NA=0.22 into a customer-provided 50 μ m or 100 μ m fiber.

STEP 4:

Choose your output power control: CW, analog modulation (variable output power), or digital modulation.

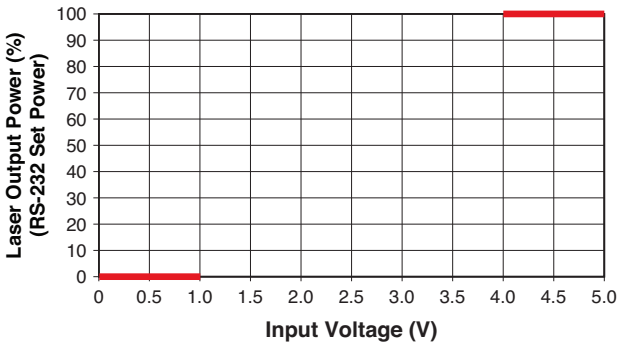
Choose only one of the following selections.

CW Mode	Function
<input type="checkbox"/> Continuous Wave (CW)	<p>Constant power mode</p> <p>Laser on at full power</p> <p>User can adjust laser output power and monitor power through RS-232 option (if enabled)</p> <p>No modulation input required</p>
Analog Modulation ¹	Function
<input type="checkbox"/> Analog (A)	<p>Input <0.5V = output power is off, Input = 5V is 100% output power, 0.5V to 5V is linear power control from external voltage source</p> <p>Bandwidth of 500 kHz Rise time (10% to 90%) <1 μsec, 500 nsec (typ.) Fall time (90% to 10%) <1 μsec, 500 nsec (typ.)</p> <p>Analog Modulation can be used with a DC voltage input to simply vary the output power</p>  <p>No adjustable output power through RS-232</p>
<input type="checkbox"/> Reverse Analog (RA)	<p>Input >4.5V = output power is off, Input = 0V is 100% output power, 4.5V to 0V is linear power control from external voltage source</p> <p>Bandwidth of 500 kHz Rise time (10% to 90%) <1 μsec, 500 nsec (typ.) Fall time (90% to 10%) <1 μsec, 500 nsec (typ.)</p> <p>Reverse Analog Modulation can be used with a DC voltage input to simply vary the output power</p>  <p>No adjustable output power through RS-232</p>

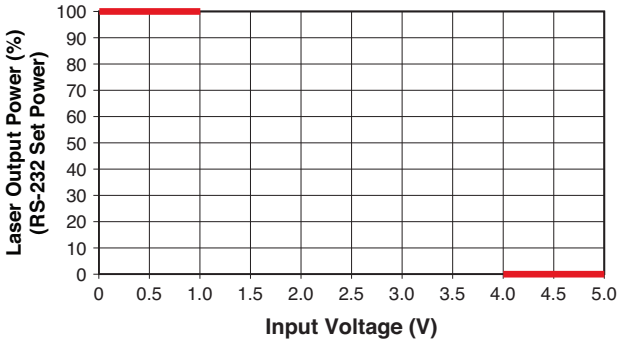
¹ BioRay is standard with Analog Modulation and will require a 5V input signal to operate.

STEP 4 (continued):

Digital Modulation	Function
<div><input type="checkbox"/> Digital TTL (T)</div> <div><input type="checkbox"/> Fast Digital TTL (FT)</div>	<div>Input 0V to 1V is output power off, Input 4V to 5V is 100% output power</div> <div>Bandwidth of 100 kHz Rise time (10% to 90%) <1 μsec, 500 nsec (typ.) Fall time (90% to 10%) <1 μsec, 500 nsec (typ.)</div> <div>Bandwidth of 2 MHz Rise time (10% to 90%) <150 nsec Fall time (90% to 10%) <150 nsec</div>
<div><input type="checkbox"/> Reverse Digital TTL (RT)</div> <div><input type="checkbox"/> Reverse Fast Digital TTL (RFT)</div>	<div>Input 0V to 1V is 100% output power, Input 4V to 5V is 0% output power</div> <div>Bandwidth of 100 kHz Rise time (10% to 90%) <1 μsec, 500 nsec (typ.) Fall time (90% to 10%) <1 μsec, 500 nsec (typ.)</div> <div>Bandwidth of 2 MHz Rise time (10% to 90%) <150 nsec Fall time (90% to 10%) <150 nsec</div>




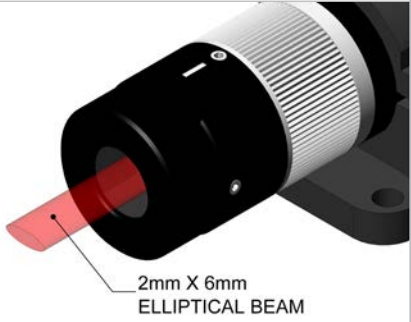

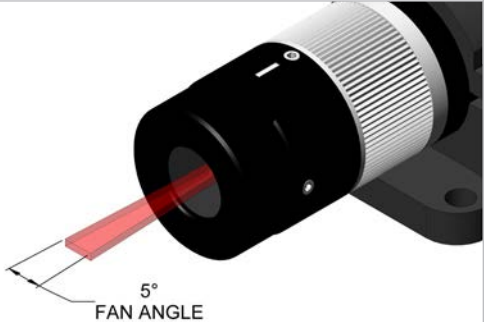
User can adjust output power setting through RS-232 option (if enabled)



User can adjust output power setting through RS-232 option (if enabled)

STEP 5:

Choose your beam shape.
Choose only one of the following selections.

Elliptical Dot Beam	
<p>D01 – Coherent’s high-quality elliptical collimated beam with user adjustable focus to change the beam divergence.</p> <p><input type="checkbox"/> D01-XX, Standard ~1 mm by ~3 mm beam diameter</p>	 <p>1mm X 3mm ELLIPTICAL BEAM</p>
<p>MicoFocus μFL D01 – Coherent’s high-quality elliptical collimated beam with user adjustable focus to change the beam divergence. Large diameter beam allows for tighter focus spots.</p> <p><input type="checkbox"/> μFL D01-XX, Large beam diameter 2X with less divergence</p>	 <p>2mm X 6mm ELLIPTICAL BEAM</p>
Line Beam Generator	
<p>L01 – Coherent’s Premier Flat-Top Line Technology, with nine choices for the fan angle at which the line expands out from the laser.</p> <p><input type="checkbox"/> L01-1 Line with 1 degree fan angle</p> <p>Fan angle 1° with tolerance $\pm 10\%$</p> <p>Relative intensity floor $>75\%$</p> <p>Contained Power $\geq 90\%$</p> <p>Note: Not available in 488 nm</p>	 <p>1° FAN ANGLE</p>
<p><input type="checkbox"/> L01-5 Line with 5 degree fan angle</p> <p>Fan angle 5° with tolerance $\pm 10\%$</p> <p>Straightness $<0.1\%$</p> <p>Relative intensity floor $>75\%$</p> <p>Contained Power $\geq 95\%$</p> <p>Note: Not available in 488 nm</p>	 <p>5° FAN ANGLE</p>

STEP 5 (continued):

Line Beam Generator (cont.)

☐ L01-10 Line with 10 degree fan angle

Fan angle 10° with tolerance $\pm 5\%$

Straightness $<0.1\%$

Relative intensity floor $>75\%$

Contained Power $\geq 95\%$

Note: Not available in 488 nm



☐ L01-15 Line with 15 degree fan angle

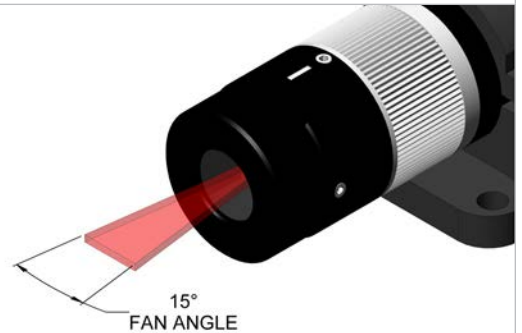
Fan angle 15° with tolerance $\pm 5\%$

Straightness $<0.1\%$

Relative intensity floor $>75\%$

Contained Power $\geq 95\%$

Note: Not available in 488 nm



☐ L01-20 Line with 20 degree fan angle

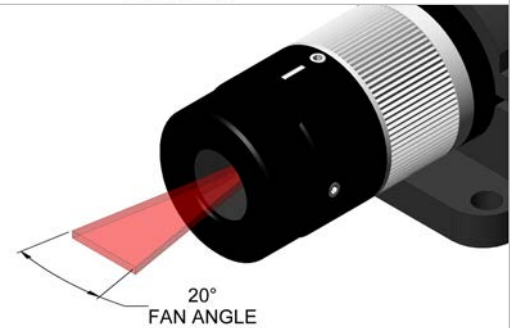
Fan angle 20° with tolerance $\pm 5\%$

Straightness $<0.1\%$

Relative intensity floor $>75\%$

Contained Power $\geq 95\%$

Note: Only available for wavelengths 520 nm to 785 nm



☐ L01-30 Line with 30 degree fan angle

☐ L01-30 Line with 30 degree fan angle, micro-focus (μFL)

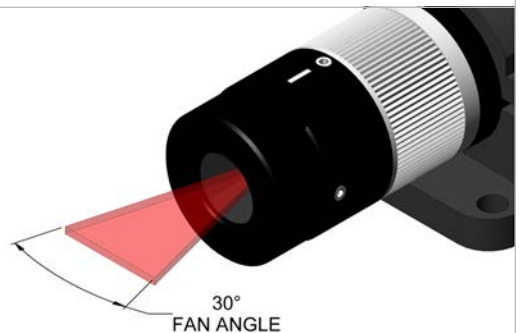
Fan angle 30° with tolerance $\pm 5\%$

Straightness $<0.1\%$

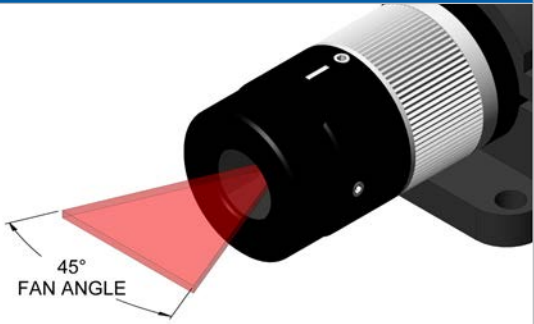
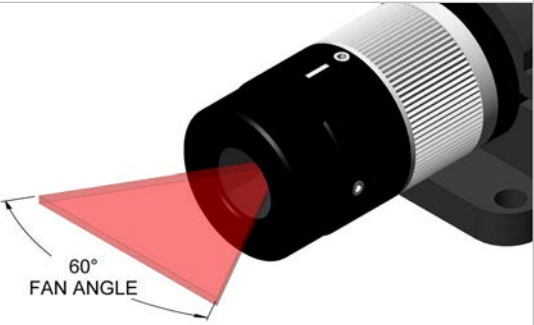
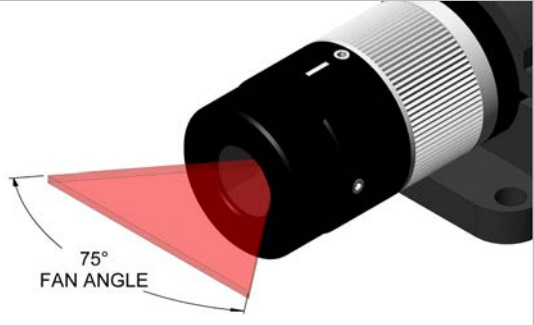
Relative intensity floor $>75\%$

Contained Power $\geq 95\%$

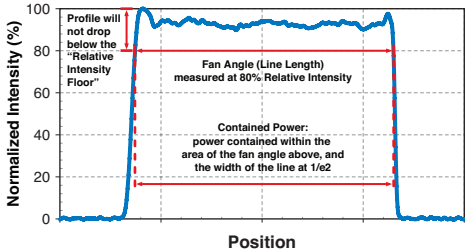
Note: Not available in 488 nm. Micro-focus (μFL) only available in 520 nm to 785 nm.



STEP 5 (continued):

Line Beam Generator (cont.)	
<div><input type="checkbox"/> L01-45 Line with 45 degree fan angle</div> <div><input type="checkbox"/> L01-45 Line with 45 degree fan angle, micro-focus (μFL)</div> <div>Fan angle 45° with tolerance ±5%</div> <div>Straightness <0.1%</div> <div>Relative intensity floor >60%</div> <div>Contained Power ≥95%</div> <div>Note: Not available in 488 nm. Micro-focus (μFL) only available in 520 nm to 785 nm.</div>	
<div><input type="checkbox"/> L01-60 Line with 60 degree fan angle</div> <div><input type="checkbox"/> L01-60 Line with 60 degree fan angle, micro-focus (μFL)</div> <div>Fan angle 60° with tolerance ±5%</div> <div>Straightness <0.1%</div> <div>Relative intensity floor >60%</div> <div>Contained Power ≥95%</div> <div>Note: Not available in 488 nm. Micro-focus (μFL) only available in 520 nm to 785 nm.</div>	
<div><input type="checkbox"/> L01-75 Line with 75 degree fan angle</div> <div>Fan angle 75° with tolerance ±5%</div> <div>Straightness <0.1%</div> <div>Relative intensity floor >50%</div> <div>Contained Power ≥95%</div> <div>Note: Not available in 488 nm</div>	

GLOSSARY OF TERMS:

Definition	Description	
Fan Angle or Line Length	Length of flat top profile, measured at 80% intensity clip levels. Reported in degrees for the fan angle.	
Straightness	Maximum deviation from the best fit line. Measured as the delta from the best fit line divided by the line length. Reported as a percentage.	
Relative Intensity Floor	Minimum relative intensity at any point along the line length. Reported as a relative intensity.	
Contained Power	Power contained within the defined Flat Top.	

Note: Line is optimized in the factory at 500 mm working distance from laser

STEP 6:

Choose your focus distance (Coherent can preset the adjustable focus).

Choose only one of the following selections.

Focus	Description
<input type="checkbox"/> Standard, Default, 500 mm	Adjustable focus feature factory set for best focus at 500 mm distance from laser. You can readjust and lock as needed.
<input type="checkbox"/> Custom, _____ mm	Choose from a 50 mm up to a 2000 mm focus distance. Adjustable focus feature factory set to your specified distance from laser. You can readjust and lock as needed. Choosing 2000 mm is "collimated".

STEP 7:

Choose your communication option (RS-232).

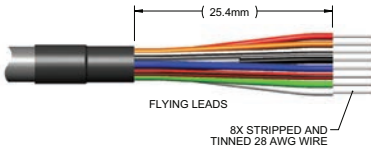
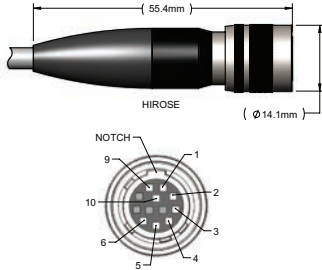
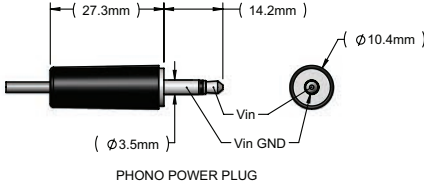
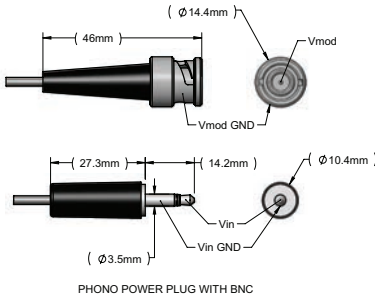
Choose only one option of following selections.

Focus	Description
<input type="checkbox"/> None	No communications. RS-232 disabled.
<input type="checkbox"/> RS-232	RS-232 enabled for laser control and status. Can monitor hours, power and temperature. Can adjust laser output power for CW and digital modulation modes.

STEP 8:

Choose your cable length and connector/pinout.

Choose only one of the following selections.

Code	Description	Image	Connection	
FL	Flying Leads Choose Length (mm) <input type="checkbox"/> 250 <input type="checkbox"/> 500 <input type="checkbox"/> 1000 <input type="checkbox"/> 1500 <input type="checkbox"/> 2000 <input type="checkbox"/> 2500		V_{in} V_{in} Ground Fault V_{mod} V_{mod} Ground RS-232 Transmit RS-232 Receive RS-232 Ground	Red Black Green Blue Red/Black Orange White White/Black
HR	Hirose R10A-10P-12SC(73) <input type="checkbox"/> 1000 mm		V_{in} V_{in} Ground Fault V_{mod} V_{mod} Ground RS-232 Transmit RS-232 Receive RS-232 Ground	9 1 10 2 3 6 4 5
P	Power Plug, Phono 3.5 mm <input type="checkbox"/> 500 mm Note: Only for CW mode		V_{in} V_{in} Ground, Shield Fault V_{mod} V_{mod} Ground RS-232 Transmit RS-232 Receive RS-232 Ground	Tip Base No Connection No Connection No Connection No Connection No Connection No Connection
B	Power Plug, Phono 3.5 mm and BNC for Modulation <input type="checkbox"/> 500 mm Note: Do not order with CW mode		V_{in} V_{in} Ground, Shield Fault V_{mod} V_{mod} Ground RS-232 Transmit RS-232 Receive RS-232 Ground	Phono Plug Tip Phono Plug Base No Connection BNC Tip BNC Base No Connection No Connection No Connection

STEP 9:

Choose data report.

Data Reports	Description
<input checked="" type="checkbox"/> Basic	Every laser includes a final quality test report
<input type="checkbox"/> Line Data	Add uniformity and straightness data for lines (L01)

STEP 10:

Choose five-second start-up power-on delay.

Choose only one of the following selections.

Power-on Delay	Description
<input type="checkbox"/> None	Laser will start emission at power-on
<input type="checkbox"/> Yes, default	Laser will have an approximate five-second delay for laser emission after power-on

CONGRATULATIONS:

You have completed the laser configuration steps! Please email this to your local Coherent Sales representative to get a quote on price and delivery. You can also view our most popular models on the next two pages.

MOST POPULAR CONFIGURATIONS:

Part Number	Description
1264213	BioRay 405 nm 50 mW Elliptical Dot Laser Analog Modulation enabled, Includes mount, 1 meter cable and Hirose connector, typical 1x3 mm collimated beam
1264214	BioRay 450 nm 50 mW Elliptical Dot Laser Analog Modulation enabled, Includes mount, 1 meter cable and Hirose connector, typical 1x3 mm collimated beam
1270002	BioRay 488 nm 20 mW Elliptical Dot Laser Analog Modulation enabled, Includes mount, 1 meter cable and Hirose connector, typical 1x3 mm collimated beam
1264216	BioRay 520 nm 50 mW Elliptical Dot Laser Analog Modulation enabled, Includes mount, 1 meter cable and Hirose connector, typical 1x3 mm collimated beam
1264218	BioRay 640 nm 40 mW Elliptical Dot Laser Analog Modulation enabled, Includes mount, 1 meter cable and Hirose connector, typical 1x3 mm collimated beam
1286584	STR-520-20-CW-FL-L01-75-S-XX-3, CDRH Class II StingRay, 520 nm, 20 mW, Single Line, 75° Fan Angle, Pre-focused to 500 mm distance, 5-second Power-on Delay, 500 mm cable with Flying Leads
1253606	STR-520-35-CW-FL-D01-XX-S-TX StingRay, 520 nm, 35 mW, Elliptical Dot Beam, Pre-focused to 500 mm distance, 5-second Power-on Delay, 500 mm cable with Flying Leads, Includes RS-232 communications
1285005	STR-639-5-CW-FL-L01-20-S-XX-8 StingRay, 639 nm, 5 mW, Single Line, 20° Fan Angle, Pre-focused to 500 mm distance, 500 mm cable with Flying Leads. NOTE: Does not have 5-second power-on delay for laser emission.
1276557	STR-639-5-CW-FL-L01-45-S-XX-8 StingRay, 639 nm, 5 mW, Single Line, 45° Fan Angle, Pre-focused to 500 mm distance, 500 mm cable with Flying Leads. NOTE: Does not have 5-second power-on delay for laser emission.
1277105	STR-639-10-CW-P-L01-75-E-XX StingRay, 639 nm, 10 mW, Single Line, 75° Fan Angle, Pre-focused to 500 mm distance, Extended Depth of Focus, 500 mm cable with Flying Leads
1262766	STR-660-10-CW-FL-L01-10-S-XX-8 StingRay, 660 nm, 10 mW, Single Line, 10° Fan Angle, Pre-focused to 500 mm distance, 500 mm cable with Flying Leads. NOTE: Does not have 5-second power-on delay for laser emission.
1255565	STR-660-10-A-FL-L01-20-E-XX StingRay, 660 nm, 10 mW, Single Line, 20° Fan Angle, Pre-focused to 500 mm distance, Extended Depth of Focus, 500 mm cable with Flying Leads, Analog Modulation enabled
1258287	STR-660-10-CW-FL-L01-60-S-TX StingRay, 660 nm, 10 mW, Single Line, 60° Fan Angle, Pre-focused to 500 mm distance, 500 mm cable with Flying Leads, Includes RS-232 communications
1289028	STR-660-35-CW-HR-L01-1-S-XX-8 StingRay, 660 nm, 10 mW, Single Line, 1° Fan Angle, Pre-focused to 500 mm distance, ~1 Meter cable with Hirose Connector. NOTE: Does not have 5-second power-on delay for laser emission.

MOST POPULAR CONFIGURATIONS (continued):

Part Number	Description
1288507	STR-660-35-CW-HR-L01-20-S-XX-8 StingRay, 660 nm, 35 mW, Single Line, 20° Fan Angle, Pre-focused to 500 mm distance, ~1 Meter cable with Hirose Connector. NOTE: Does not have 5-second power-on delay for laser emission.
1280731	STR-660-100-T-FL-L01-10-S-TX StingRay, 660 nm, 100 mW, Single Line, 10° Fan Angle, Pre-focused to 500 mm distance, ~1 Meter cable with Hirose Connector, Digital Modulation enabled, Includes RS-232 communications
1280028	STR-660-100-T-HR-L01-15-E-TX-5 Stingray, Separate Driver (Enclosed) with 150 mm between laser and driver, 660 nm, 100 mW, Single Line, 15° Fan Angle, Pre-focused to 500 mm distance, Extended Depth of Focus, ~1 Meter cable with Hirose Connector, Digital Modulation enabled, Includes RS-232 communications
1280027	STR-660-100-T-HR-L01-30-E-TX-5 Stingray, Separate Driver (Enclosed) with 150 mm between laser and driver, 660 nm, 100 mW, Single Line, 30° Fan Angle, Pre-focused to 500 mm distance, Extended Depth of Focus, ~1 Meter cable with Hirose Connector, Digital Modulation enabled, Includes RS-232 communications
1285314	STR-660-100-CW-HR-L01-45-S-XX-8 StingRay, 660 nm, 100 mW, Single Line, 45° Fan Angle, Pre-focused to 500 mm distance, ~1 Meter cable with Hirose Connector. NOTE: Does not have 5-second power-on delay for laser emission.
1262526	STR-660-100-CW-FL-L01-60-S-XX StingRay, 660 nm, 100 mW, Single Line, 60° Fan Angle, Pre-focused to 500 mm distance, 500 mm cable with Flying Leads
1286514	STR-785-90-T-FL-D01-XX-S-XX StingRay, 785 nm, 90 mW, Elliptical Dot Beam, Pre-focused to 500 mm distance, 500 mm cable with Flying Leads
1231404	StingRay Controller with Keyswitch and Interlock Accessory for enhanced integration. Includes control software and power supply. Use with lasers that include a Hirose connector. For more details, refer to the StingRay Accessory datasheet.