

500mW 640nm OBIS XT

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£16,152⁰⁰

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General

	Warm-Up Time (minutes):	<5
	Manufacturer:	Coherent®
	Type of Laser:	Diode Pumped Solid State
	Laser Class - CDRH:	IV
	Model Number:	1443427

Physical & Mechanical Properties

125.0 x 70.0 x 36.5 **Dimensions (mm):**

450 **Weight (g):**

<5 **Pointing Stability ($\mu\text{rad}/^\circ\text{C}$):**

<30 **Pointing Stability (μrad):**

Optical Properties

100:1 **Polarization:**

TEM_{00} **Spatial Mode:**

639.50 **Wavelength (nm):**

≤ 1.1 **Mode Quality, M^2 :**

± 0.05 **Beam Diameter Tolerance (mm):**

0.7 **Beam Diameter (mm):**

Full-Angle: <1.4 **Beam Divergence (mrad):**

Red **Color:**

Electrical

500 **Output Power (mW):**

$\leq 0.25\%$ (20Hz to 20MHz) **RMS Noise:**

Hardware & Interface Connectivity

Free Space **Output Type:**

Environmental & Durability Factors

+10 to +35 **Operating Temperature ($^\circ\text{C}$):**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- Compact, Thermally Efficient Design for Ease of Life Science System Integration
- 320, 349, and 640nm Wavelength Options Available
- Integrated Controller with RS-232, RS-485, and USB Interfaces

Coherent OBIS XT Laser Systems offer an advanced extension of the [OBIS LS/LX](#), delivering powerful performance across ultraviolet and visible wavelengths. These lasers are available in UV wavelengths of 320 and 349nm, with output power options ranging from 20 to 150mW, and a higher-power 640nm wavelength option with output powers of 400 or 500mW. Flexible communication interfaces, including RS-232, RS-485, and USB, allow for seamless integration and real-time control in complex applications. Coherent OBIS XT Laser Systems are designed to simplify system integration, utilizing their compact form factor, integrated controller, as well as a low thermal output. This reduces the need for external cooling and streamlines OEM and end-user implementation. OBIS XT lasers are ideal for a wide range of applications, including life sciences, biomedical, flow cytometry, DNA Sequencing, and fluorescence microscopy.