

# 400mW 640nm OBIS XT

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## Product Downloads

### General

	<b>Warm-Up Time (minutes):</b>
<5	
	<b>Manufacturer:</b>
Coherent®	
	<b>Type of Laser:</b>
Diode Pumped Solid State	
	<b>Laser Class - CDRH:</b>
IV	
	<b>Model Number:</b>
1443426	

## 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 ( $\mu\text{rad}$ ):**

## Optical Properties

100:1      **Polarization:**

$\text{TEM}_{00}$       **Spatial Mode:**

639.50      **Wavelength (nm):**

$\leq 1.1$       **Mode Quality,  $M^2$ :**

$\pm 0.05$       **Beam Diameter Tolerance (mm):**

0.7      **Beam Diameter (mm):**

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

Red      **Color:**

## Electrical

400      **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.