

D2-250 Heterodyne Module

Model No. D2-250

Document Revision: 1

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Please read [Limited Warranty](#) and [General Warnings and Cautions](#) prior to operating the D2-250.

Description

The D2-250 heterodyne module is designed to provide a fiber-coupled heterodyne optical beat note formed by picking-off a small proportion of light from each of two laser beams. Light is coupled into a multi-mode fiber. A second output port can be used to align the overlap the two picked-off beams. The light entering the module should be linearly polarized in either vertical or horizontal direction for best results.

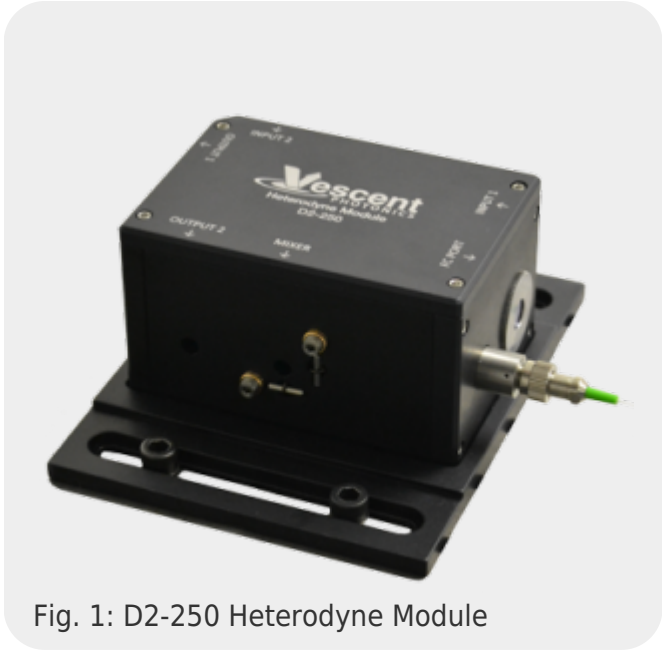


Fig. 1: D2-250 Heterodyne Module

Purchase Includes

- D2-250 Heterodyne Module

Absolute Maximum Ratings

Note: All modules designed to be operated in laboratory environment

Parameter	Rating
Environmental Temperature	>15°C and <30°C
Environmental Humidity	<60%
Environmental Dew Points	<15°C

Specifications

	Value	Units
In-coupling	Free-space	%
Wavelength Range	700 - 1,000	nm
Input Power Range	0.1 - 200	mW
Pick-off Percentage	1 - 98	%
Transmission	up to 98	%
Input Polarization	Linear	Horizontal or Vertical
Minimum Power in Beat Note	>50 μ W, optimally 200 μ W	for use with D2-160
Maximum Power at Detector ¹⁾	<1	mW
Fiber Connector	FC	
Compatible Fiber Type	MM, PM	

Components

Enter Physical Description Here

Alignment Procedure

Enter Alignment Procedure Here



Fig. ##: D2-250 Heterodyne Module

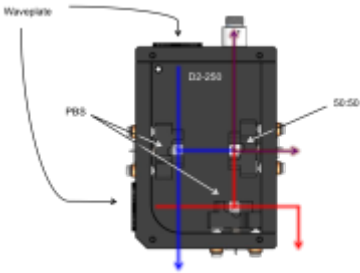


Fig. 3: D2-250 Key Components

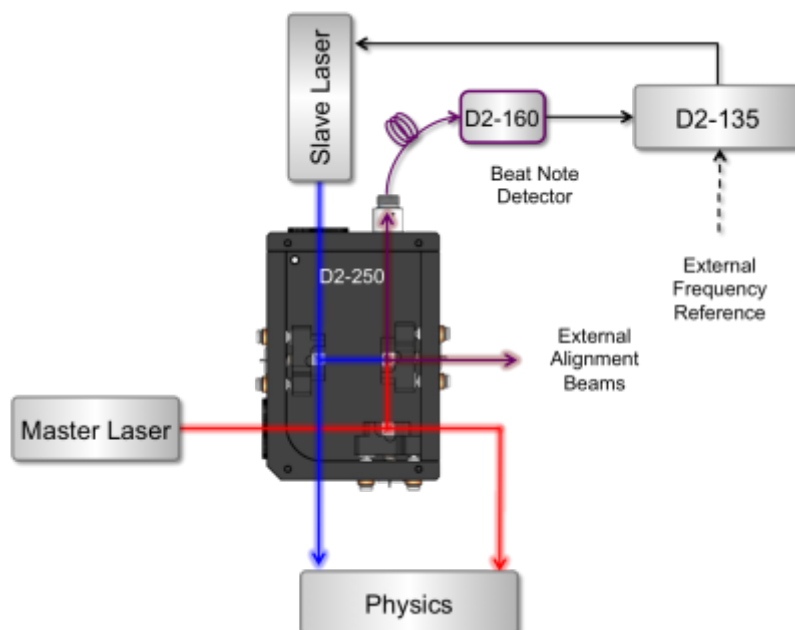


Fig. 2: D2-250 in phase lock system

¹⁾
In the optical beat note. Since the beat note is delivered through a multi-mode fiber for ease of alignment, the power at the detector is not necessarily the same as the power in the beat note. Damage may occur to the optical element if >1 mW of overall optical power is delivered to the detector.

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