

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *Newport / New Focus 6427* at our website: *Click HERE*

Test More Components Faster

Vidia™-Discrete Tunable Laser Source



Enabling Global Communications by
Advancing the Future of Optical Networks

NEW FOCUS®
Smart Optics for Networks™

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Consistent Performance

All Day, Everyday, Non-Stop

- *True 24/7 reliability: use it all day every day without weekly or even monthly calibration*
- *Fastest step-and-measure source available: <100-ms settling times and 100-nm/s tuning speed*
- *Affordable enough to put one on every station*
- *Enough power to easily measure 40 channels of a Mux/Demux at once: >4 dBm*
- *Perfect for testing 200-GHz, 100-GHz, or 50-GHz components*

"Tunable diode lasers from our other suppliers had to be recalibrated several times a week. The New Focus laser has still not required even a single recalibration."

New Focus customer after using the Model 6427 laser for nine months on the production floor.

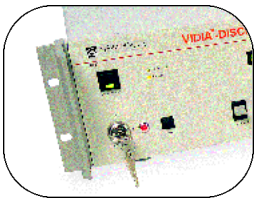
As a manufacturer of passive components you care about four things: speed, accuracy, reliability, and of course, cost.

Speed: With a tuning speed of 100 nm/s—over 10 times faster than other lasers on the market today—and an extremely fast settling time (100 ms), the Vidia™-Discrete tunable laser source lets you increase capacity by testing more devices faster and more efficiently than ever before. In many cases this laser reduces laser related test time by up to 75%.

Accuracy: The 30-pm AWA and 5-pm wavelength repeatability of the Vidia-Discrete laser let you make accurate measurements without requiring an external wavelength meter.

Reliability: The Vidia laser line brings true 24/7 reliability to your production line. These lasers will work for you, through three shifts a day for months without costly downtime for recalibration. And, because they are so stable, you won't have to to worry about variations in final product performance.

Cost: Starting at around $30K, you'll get all the features you need without extra charges for features you won't use. We invite you to compare this laser to any other laser in this price range. You just won't find specifications like these anywhere else.







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The Most User-Friendly Interface Available



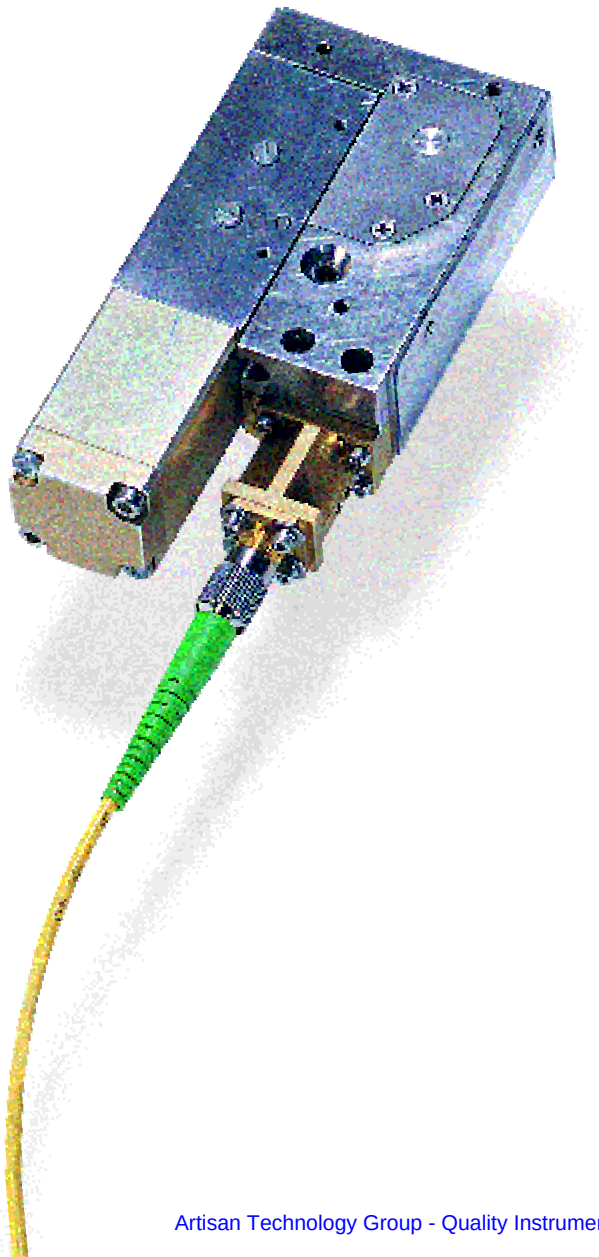
While the right specifications are extremely important, when it comes time to deploy a laser system on your production line they only tell half the story. The right laser also needs to be easy to use. Adding our optional hand-held computer interface to your Vidia™-Discrete laser lets you quickly and easily program, select, and step though a series of wavelengths—giving you the programmability and flexibility of a PC in a compact and economical package.

The easy-to-use software and touch screen interface allow you to easily control the Vidia-Discrete remotely. With the included software you can easily store user-programmable wavelength-scanning routines specific to your application, and access them with a simple touch. Plus, at less than 4.5"x 9", the hand-held interface gives you more space at your work stations since it eliminates the need for a bulky PC and monitor.

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The StableWave™ Difference



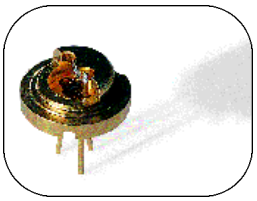
As an optical-component manufacturer ourselves, we know how important it is to keep your line going no matter what. Equipment failure just isn't an option. That's why we built our Vidia™ lasers to withstand the long-term, 24/7 use (and abuse) found on most manufacturing floors. At the heart of these lasers is our rugged StableWave cavity design. Designed and tested to withstand a 300-g shock on all six faces, the StableWave laser cavity can survive a six-foot drop onto a concrete floor and still meet its specifications. This means that whatever your manufacturing line can dish out, this laser can take. In addition, the unique cavity design produces the fastest tuning speeds (up to 100 nm/s) and shortest settling times (<100 ms) on the market today. These lasers tune up to 10 times faster than other commercially-available tunable lasers, allowing you to make a step-function increase in the throughput of your manufacturing line. When it comes to maintaining calibration, the stability of the StableWave really shines through. While most other tunable lasers require frequent recalibration procedures, this laser will work for weeks or even months without requiring even a single recalibration.

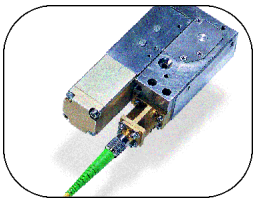
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Truly Continuous Mode-Hop-Free Tuning

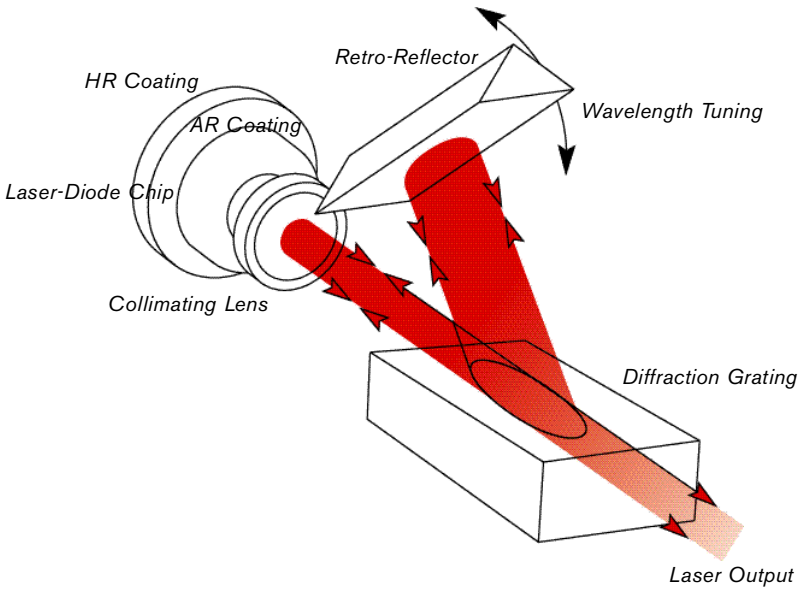
It's What's Inside That Counts

The StableWave™ cavity configuration in our tunable lasers is the culmination of over eight years of experience in the tunable diode laser business. This cavity is based on a modified Littman-Metcalf design providing true single-mode operation and achieving mode-hop-free tuning over wide wavelength ranges. By using an anti-reflection-coated Fabry-Perot laser diode and our patented pivot-point design, the StableWave cavity ensures high output powers and truly continuous, mode-hop-free tuning. To guarantee the quality of the laser diode coatings, we employ a proprietary anti-reflection coating process at our in-house coating facility. This process coupled with the patented design ensures stable, robust single-mode operation—the amplitudes of non-lasing modes are suppressed to 40 dB below the lasing mode. In addition, our experience in precision opto-mechanics provides the StableWave cavity with true 24/7 reliability for consistent performance.









Modified Littman-Metcalf Laser Cavity

By using a patented pivot-point location for the retro-reflector, we achieve mode-hop-free tuning over a wide tuning range. The pivot point is positioned with submicron accuracy to maintain the same cavity axial mode as the laser wavelength changes. The diffraction grating acts as the frequency-selective output coupler.

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MODEL	6427
Applications	High-Speed Step & Measure
Wavelength Range	C-band (1520–1570 nm)
Output Power	>+6 dBm
Power Flatness Across Range	±0.25 dB (typical)
Power Repeatability	0.08 dB (typical)
Absolute Wavelength Accuracy	30 pm (1)
Wavelength Resolution	1 pm
Wavelength Repeatability	±3 pm (typical)
Wavelength Stability	<5 pm over 1 hr
Tuning Speed	100 nm/s
Settling Time	100 ms (typical)
Side-Mode Suppression Ratio (at 6 dBm)	>45 dBc >50 dBc (typical)
Signal-to-Peak-Noise Ratio (ASE, SSE)	>50 dB (2)
Fiber Type	SM Standard, PM Optional
Computer Interface	GPIB and RS232
Palmtop Interface with Software	Optional
Operating Temperature	15–35 °C
Storage Temperature	–20 °C to +70 °C

(1) *With single-point recalibration.*

(2) *Measured with 0.1-nm resolution bandwidth.*

ALL DATA SUBJECT TO CHANGE



If you are interested in swept-wavelength testing, contact us about the Vidia™-Swept tunable laser source.

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Gold-standard solutions

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We buy equipment

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