



## “A Cutting Edge 1 $\mu$ m Band Tunable Diode Laser”

- ASE-Free Output : <-75dB@0.01nm
- High Output Power : >100mW (Free), 50mW (Fiber)
- Wide Tuning Range : >100nm (975~1085nm)
- Mode Hop Free Tuning : >50nm
  - Narrow Linewidth : ~100kHz
  - Digital Control : 0.05pm /step res.
  - PC Control : LabVIEW software



**Spectra Quest Lab. Inc**

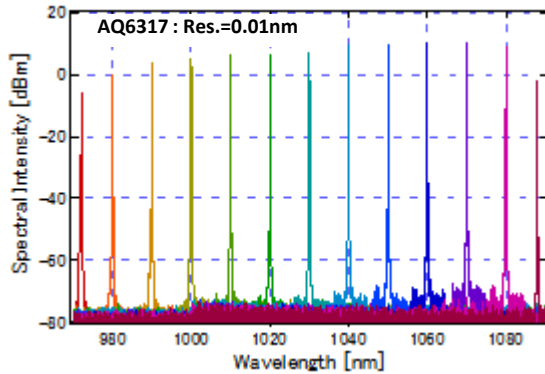
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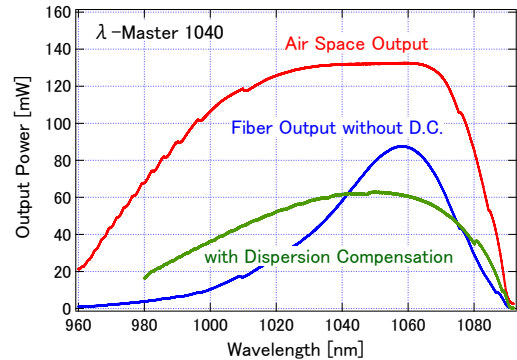
Tel/Fax : 043-305-5563

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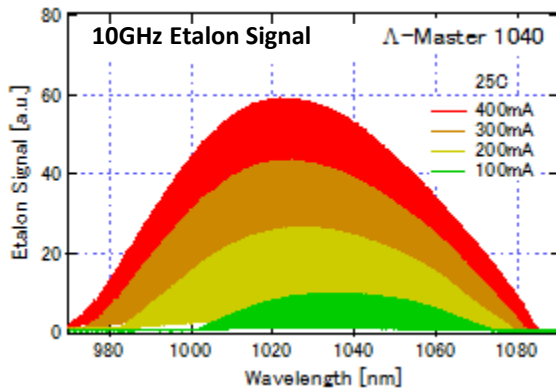
<http://spectraquestlab.com>



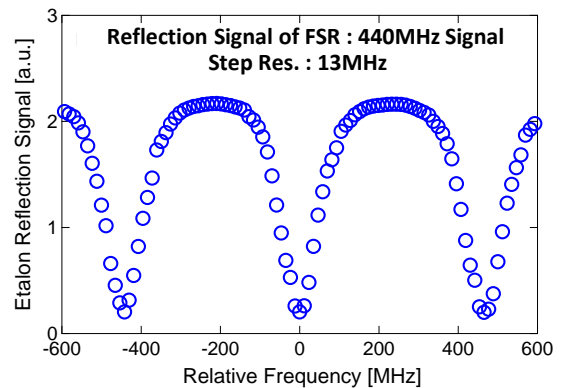
**ASE-Free Output Spectra**



**High Power and Wide Tuning**



**Narrow Linewidth and MHF Tuning**



**High Resolution Digital Control**

Specifications	$\lambda$ -Master 1040	Comments
Tuning Range	975~1085nm	910~990nm is also available
Mode Hop-Free Tuning	>50nm	around specified wavelength
ASE-Free Output Power	>100mW @1040nm	SMSR:>75dB@0.01nm
Fiber Coupled Power	>50mW @ 1040nm	Optional
Max. Tuning Resolution	0.05pm (15MHz)	Digital control by stepping motor
Max. Tuning Speed	15nm/s (4500GHz/s)	Any speed between 1~300000pps
Linewidth (1ms)	<100kHz	In silent environments
Current Modulation	~45MHz/mA	Bandwidth: <100kHz
PZT Continuous Tuning	>100GHz	Optional
Built-in Etalon Monitor	10GHz Solid Etalon	Optional
Rapid Data Acquisition	16bit 2 ch. Analog Input	Synchronized to control pulse
System Control	LabVIEW Software	USB bus, DI and DO for step scan
Laser Head Dimension	110x166x330mm, 5kg	Controller : 240x140x360mm, 6.5kg

\*Specification may change without notification.