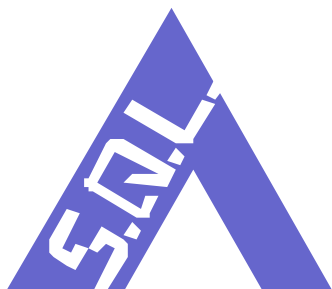


# $\lambda$ -Master 1040



## 先進の1 $\mu$ m帯波長可変半導体レーザー

- ・ 高スペクトル純度 (ASE-Free) :  $< -75\text{dB}@0.01\text{nm}$ 
  - ・ 高出力 :  $> 100\text{mW}$  (Fiber Output:  $> 50\text{mW}$ )
  - ・ 広帯域同調 :  $> 100\text{nm}$  (980~1080nm)
- ・ Mode Hop Free 連続同調 :  $> 50\text{nm}$  (around specified wavelength)
  - ・ 狭発振線幅 :  $\sim 100\text{kHz}$
- ・ 高分解能デジタル制御 :  $0.1\text{pm}$  (30MHz)/step
- ・ built-in モードモニター : 10GHz Solid Etalon
  - ・ PC制御 : LabVIEW
- ・ Data 集積機能 : 2ch.16bit External Signal



Spectra Quest Lab. Inc

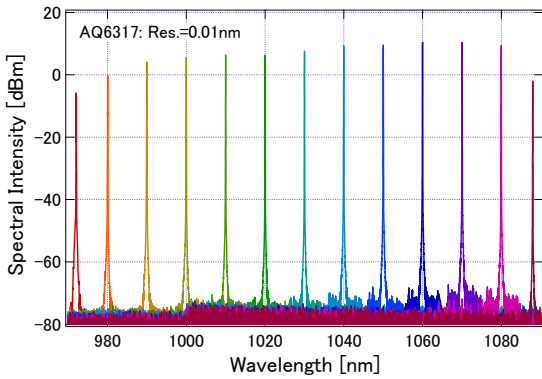
スペクトラ・クエスト・ラボ 株式会社

〒260-0856 千葉市中央区亥鼻1丁目8-15

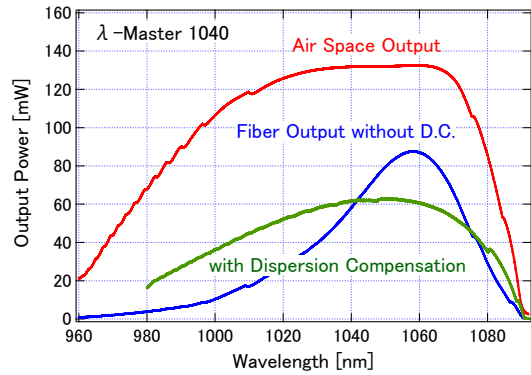
Tel/Fax : 043-305-5563

[info@spectraquestlab.com](mailto:info@spectraquestlab.com)

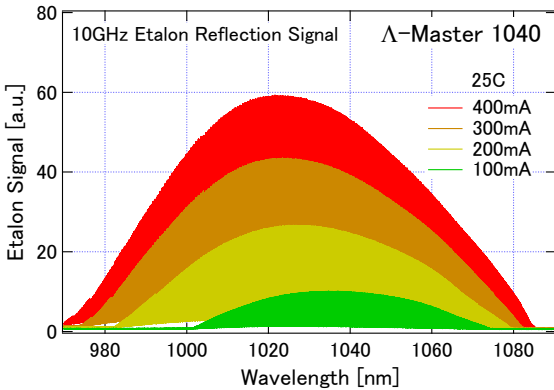
<http://spectraquestlab.com>



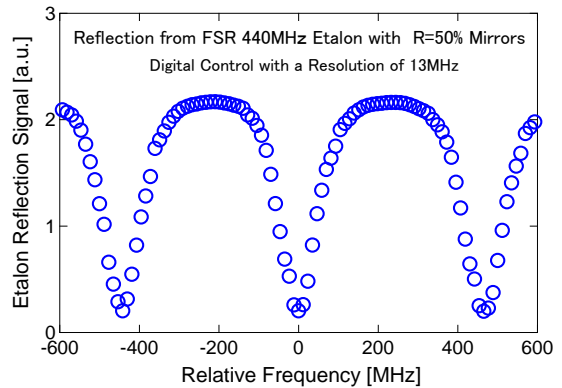
**ASE-Free Output Spectra**



**Free Space and Fiber Output**



**Continuous Tuning with Narrow Linewidth**



**High Resolution Digital Control**

Specifications	$\lambda$ -Master 1040	Comments
Tuning Range	980~1080nm	920~990nm is also available
Mode Hop-Free Tuning	>50nm	Around the specified wavelength
ASE-Free Output Power	>100mW @1040nm	SMSR:>75dB @0.01nm
Fiber Coupled Power	>50mW @ 1040nm	Optional: with FC/APC Connector
Tuning Resolution	0.1pm (30MHz)	0.01pm (3MHz) option is available
Max. Tuning Speed	15nm/s (4500GHz/s)	Any speed between 1~300,000pps
Linewidth (1ms)	<100kHz	In silent environments
Current Modulation	~45MHz/mA	Bandwidth: <50kHz
PZT Tuning	~25GHz for 150V	Optional
Built-in Etalon Monitor	10GHz Quartz Etalon	Optional
Optical Isolation	>25dB	Optional, Broad Band Isolator available
Data Acquisition Function	16bit 2ch. Analog Inputs	Synchronized to control pulse
Digital Control Interface	DI and DO Ports	step scan synchronized to other instrument
System Control	LabVIEW Software	USB bus