

-Master 950



High Performance 900nm Band Tunable Diode Laser

- **High Spectral Purity (ASE-Free)** : $< -80\text{dB}@0.01\text{nm}$
 - **High Output Power** : $> 60\text{mW}$ (Fiber Output: $> 30\text{mW}$)
 - **Wide Tuning Range** : $> 80\text{nm}$ (920~1000nm)
- **Mode-Hop Free Tuning** : $> 50\text{nm}$ (around specified wavelength)
 - **Narrow Linewidth** : $\sim 100\text{kHz}$
- **High-Resolution Control** : 0.1pm (30MHz)/step
- **built-in frequency monitor** : 10GHz FSR Etalon
 - **Data Acquisition** : 2ch.16bit AD (Synchronized to scan)
- **Full Computer Control** : LabVIEW software



Spectra Quest Lab, Inc

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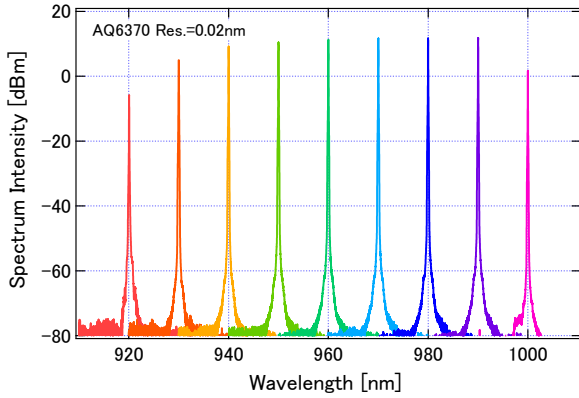
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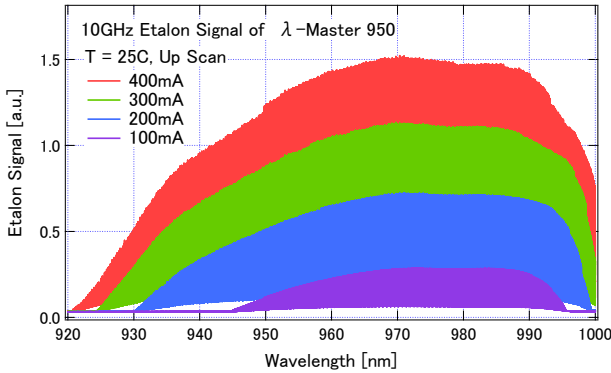
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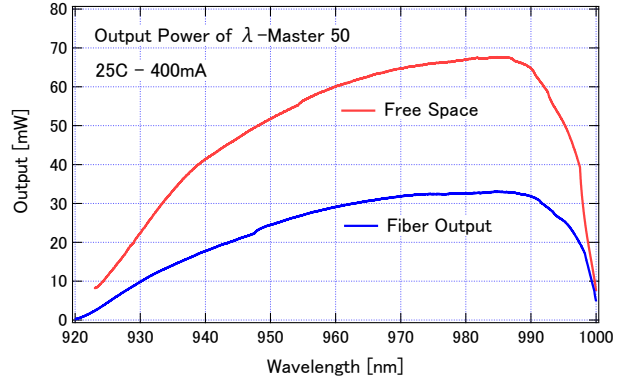
λ -Master 950



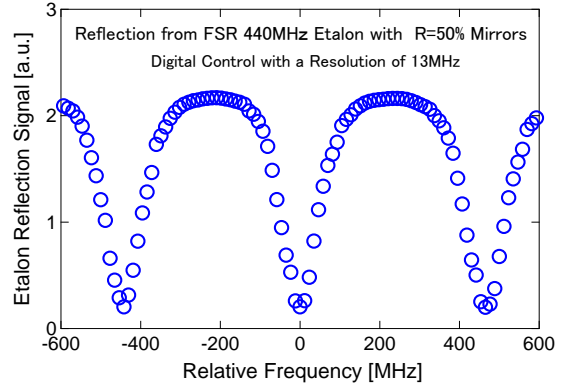
ASE-Free Output Spectra



Continuous Tuning with Narrow Linewidth



Free Space and Fiber Output



High Resolution Digital Control

Specifications	λ -Master 1040	Comments
Tuning Range	920~1000nm	980~1090nm, 1060~1150nm are available
Mode Hop-Free Tuning	>50nm	Around the specified wavelength
ASE-Free Output Power	>60mW @980nm	SMSR:>80dB @0.01nm
Fiber Coupled Power	>30mW @ 980nm	FC/APC Connector
Tuning Resolution	0.1pm (30MHz)	0.01pm (3MHz) option is available
Max. Tuning Speed	30nm/s	Any speed between 1~300,000pps
Linewidth (1 μ s)	<100kHz	In silent environments
Current Modulation	~45MHz/mA	Bandwidth: <50kHz
PZT Tuning	~10GHz for 150V	Optional
Built-in Etalon Monitor	10GHz FSR 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

* Specifications may change without notification.