

Double Bandwidth Dye Laser Option

The Double Bandwidth Option (DBO) allows one to operate the pulsed dye laser resonator at two distinct bandwidths.

A special prism expander allows one to change the laser beam size on the grazing incidence grating by a factor of 3.6. Thus the dye laser linewidth can be switched from the ultra narrow linewidth resonator limit, e.g. 0.03 cm^{-1} (1 pm)¹, to about four times higher bandwidth, 0.11 cm^{-1} (3.6 pm)¹. Applications include combustion research to adapt the laser linewidth better to the spectral properties of the species investigated.

By rotating the unique DBO snap-in rotational prism expander stage, bandwidth switching requires a minimum of alignment and time. Wavelength shifts due to switching are smaller than 10 pm , and the calibration of the resonator and all other remaining Sirah resonator specifications are valid for both settings.

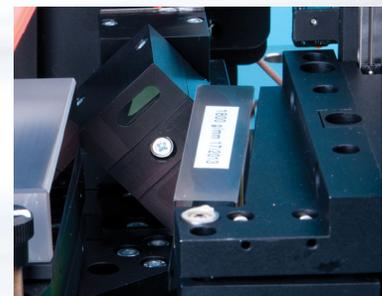
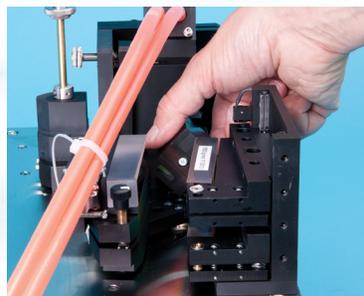
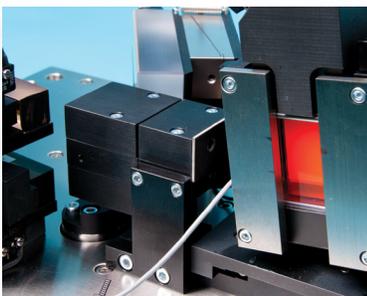
DBO is available for the complete line of our pulsed dye resonators. Please note that DBO has to be ordered together with a new laser or an existing resonator must be sent to the factory for the upgrade.

1. Value given for a double, 3000 lines/mm grating resonator at 560 nm.

CHARACTERISTICS

Absolute Wavelength Accuracy after Bandwidth Change	<10 pm
Supported Laser Models	Cobra Cobra-Stretch PrecisionScan Credo

DOUBLE BANDWIDTH OPTION



Sirah

Manufactured by Sirah

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