

Materials List for:

Construction and Characterization of External Cavity Diode Lasers for Atomic Physics

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Materials

Name	Company	Catalog Number	Comments
Laser Diode (Rubidium, 780 nm)	Roithner	ADL-78901TX	Various wavelengths, powers, case sizes, and AR coatings are available (Thor Labs, Eagle Yard Photonics, Rothnier)
Diffraction Grating (Rubidium, 780 nm)	Newport	05HG1800-500-1	Holographic or rullered (Optional blazing) (Thor Labs, Newport)
Viewing Card	Thor Labs	VRC5	Infrared viewing card
Diode Lens	Thor Labs	C330TME-B	Coated for 780 nm
Glass Wedge	Thor Labs	PS814	10° wedge
1/2 Waveplate	Thor Labs	WPH10M-780	780 nm
1/4 Waveplate	Thor Labs	WPQ10M-780	780 nm
Rotation mounts	Thor Labs	RSP1C	
PBS	Thor Labs	PBS252	780 nm
Isolator	Thor Labs	IO-5-780-HP	
Vapor Cell	Thor Labs	GC25075-RB	Rubidium
Photo Detector	Moglabs	PDD-001-400-1100-λ	
Scope	Tektronix	TDS1001B	
Wavemeter	Yokogawa	AQ-6515A	We use an optical spectrum analyzer but a cheaper wavemeter would also be sufficient.
Electronic spectrum analyzer	Agilent	E4411B	
IR Viewer	FJW Optical Systems Inc	84499A-5	Infrared viewer